

# VIDEO INSIGHT v6 – VIDEO MANAGEMENT SOFTWARE



## Unlimited VI Software License on Select Panasonic Cameras

Panasonic acquired Video Insight, a leading developer of video management software, to expand its surveillance recording and monitoring capabilities and fulfill the company's ongoing strategy of delivering choice and flexibility to end users.

Video Insight is a scalable enterprise VMS solution that captures, manages and stores video surveillance across a network—on single or multiple locations—and supports the broadest range of IP and analog camera models. Video Insight is the perfect solution for multifacility configurations, including schools, universities, hospitals, healthcare providers, law enforcement and SMBs. Video Insight's VMS complements Panasonic's popular embedded recording platforms (WJ-NV300 and WJ-ND400) and video management software applications (ASM200 and ASM970).

Supporting more than 3,000 camera models from 100 manufacturers and integrating with the most popular access control systems, Video Insight's VMS is powerful yet easy-to-use video management software that delivers a comprehensive VMS experience, including intuitive user interface, robust client options for Windows, MAC and mobile devices and its own built-in access control.

Panasonic is bundling unlimited camera licenses with its recent-model IP cameras\* in combination with Video Insight software, thereby offering a compelling value proposition to an end user seeking a winning combination of premiere brand surveillance hardware and software at attractive price points. For a list of Panasonic camera models covered by the unlimited camera license, visit [us.panasonic.com/VideoInsight](http://us.panasonic.com/VideoInsight).

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## YOUR SYSTEM SCALES WITHOUT LIMITATIONS

Video Insight's 64-bit VMS supports an industry-leading number of cameras per server, unlimited scalability, client workstations, users with simple integration to legacy systems, centralized administration of the system and more.

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## LOWER TOTAL COST OF OWNERSHIP (TCO) THAN ANY OTHER ENTERPRISE VMS

Affordability, flexibility and a simple licensing model are what sets Video Insight apart. VI provides the most cost-effective enterprise-class VMS solution on the market. With Video Insight, end users receive a perpetual license that includes a wide range of enterprise features—and no hidden fees.

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## EASY INTEGRATION WITH EXISTING SYSTEMS

Video Insight easily integrates with your existing systems, including access control and building management. Our robust SDK and API make it easy to integrate video or alarms into a centralized console.



## MAXIMIZE UPTIME AND PROTECTION

Maximize protection with redundant recording to multiple Network Video Recorders (NVRs). Health Monitor, automated failover, and easy-to-use load balancing allow migration of cameras between servers. All of these features can provide high system availability for both live and recorded video at all times. User access privileges and security features ensure tamper-free protection of all your video, data and audio.

## VI MOBILE—SURVEILLANCE ANYWHERE

VI Mobile is a video management system app that allows authorized "on the go" users to access live and recorded video from any camera on any server. Users can view and control PTZ cameras, and view images in full resolution and high frame rates with H.264. The app imports all settings from a single address, providing users access to individual cameras or groups of cameras in predefined layouts. Users can save or email snapshots, view recorded images by alarm or specific times and view thumbnail images on facility maps. Users can also trigger events to display customized actions on Monitor Station/VI Monitor directly from mobile devices.

### VIDEO INSIGHT LICENSE INCLUDED WITH SELECTED PANASONIC CAMERAS MANUFACTURED AFTER OCTOBER 2014

Panasonic is offering an unlimited Video Insight software license with the purchase of select Panasonic cameras manufactured after October 2014 to save security professionals valuable time and money.

#### ELIGIBLE PANASONIC CAMERAS

##### PTZ Dome

SW598/SW598A, SW397A/SW397B, SW396/396A, SW395/395A, SC588/SC588A, SC387/SC387A, SC386, SC385, SC384

##### Outdoor Vandal Fixed Dome

SFV781L, SFV631L/LT, SFV611L, SFV531, SW559, SW558, MW502S, SFV311, SFV310, SW355, SW352, SW158, SW155, SW155MA, SW152/152M, SW115, SFV110/M, SFV130/M

##### Indoor Vandal Fixed Dome

SFR631L, SFR611L, SFR531, SF549, SF548, SFR311, SFR310, SF346, SF342

##### Indoor Fixed Dome

SFN631L, SFN611L, SFN531, SF539, SF538, SFN311L, SFN311, SFN310, SF336, SF335, SF332, SF138, SF135, SF132, SFN110, SFN130

##### Outdoor Box

SPV781L, SPW631L/LT, SPW611L, SPW611, SW316L, SW316, SW314, SPW531AL, SPW311AL

##### Indoor Box

SPN631, SPN611, SPN531, SP509, SP508, SPN311, SPN310, SP306, SP305, SP304V, SP302, SP105, SP102

##### 360° Dome

SFV481, SFN480, SW458, SW458MA, SF448, SF438

##### PT Camera

SW175, SW174W, SW172, ST165, ST162, BL-VT164W, BL-VT164, BL-VP104W, BL-VP104, BL-VP101

##### Encoder

GXE500, GXE100

#### How to tell if your Panasonic camera was manufactured after October 2014:

1. Find the serial number on your camera and/or carton box.
2. The first letter of the serial number code indicates the year of production, where M=2013, N=2014, O=2015.
3. The second letter indicates the month of production, where A=January, B=February, C=March, etc.

For example, October 2014 will be NJ\*\*\*\*\*.

#### For more information, visit:

[us.panasonic.com/products-videosurveillance-videoinsight](http://us.panasonic.com/products-videosurveillance-videoinsight)



# DELIVERING SHARPER IMAGES WITH HIGHER SENSITIVITY

*Introducing a 9 Megapixel 360-degree Network Camera with Built-In Analytics.*



**WV-SFN480**

360-degree Indoor Dome  
9 Megapixel Network Camera



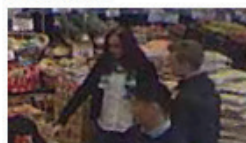
**WV-SFV481**

360-degree Vandal Resistant  
Outdoor Dome  
9 Megapixel Network Camera

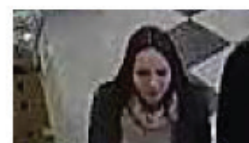


**9M (3K × 3K) HIGH-RESOLUTION  
PERFORMANCE ENABLES SHARP  
RENDERING OF OBJECTS AND  
PEOPLE'S FACES AT THE EDGE  
SECTIONS OF THE FISHEYE**

**WV-SFN480**



**WV-SF438**





## COMPLETE WITH POWERFUL ANALYTICS BUILT-IN

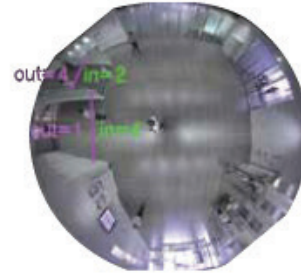
### HEAT MAP

This provides visualization of the traffic patterns by people and how long they stay in one place. For example, you can place products based on how people tend to flow within the store and arrange objects so that they do not interfere with the movement of people.



### PEOPLE COUNTING

This counts the number of people passing through a selected preset location. The People Counting function can provide statistics on the number of people entering and leaving a specific zone and other useful data.



### MOVING OBJECT REMOVAL (MOR)

Enables monitoring of changes only to the surrounding environment by removing people and other moving objects from the video. This function can be used with camera images for confirming how products placed in a salesroom are selling while also respecting the privacy of customers in store surveillance.



*The ULTRA 360-degree lineup features the “Three Ultras” for establishing a new standard for video monitoring.*

## ULTRA HIGH RESOLUTION

Includes a 12-megapixel high-sensitivity sensor capable of 4K image output for producing high-resolution images up to 9M (3K × 3K) in Fisheye mode. Detailed monitoring in all directions using the wide range of distribution modes and Multi-stream. (Fisheye mode, Panorama mode, Double Panorama mode, Quad PTZ mode, Single PTZ mode, 4 Stream mode).

## ULTRA HIGH SENSITIVITY

Provides natural-looking, crystal-clear images even in dim locations. Includes a new powerful image sensor and new lens. Automatic switching between day/night shooting modes and the linked Auto Back Focus enables monitoring even in dim environments.

## ULTRA INTELLIGENT

Heat-map / People Counting (Cross line) / MOR (Moving Object Remover). Focuses on the movement of people for providing a video-based intelligent solution for use in marketing.



# HIGH PICTURE QUALITY, HIGH SENSITIVITY

Providing natural looking, sharp video optimized for a wide range of installation environments and conditions.

## HIGH RESOLUTION

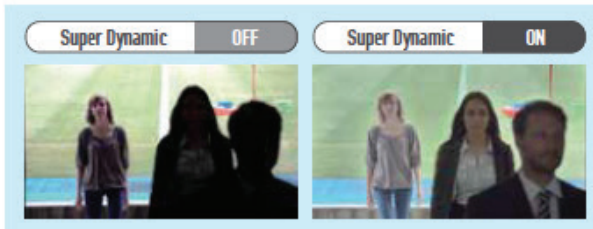
The Panasonic i-PRO SmartHD Series of network cameras are high definition (HD) cameras capable of shooting video at Full HD (1,920x1,080) and HD (1280x720). These cameras can record up to 60 images per second (60 fps), even at Full HD resolutions for the capture of exceptionally clear images of moving objects. The resolution, frame rate, and other parameters can be adjusted for the installation location and subject for obtaining the optimum settings for your specific environment.



## ENHANCED SUPER DYNAMIC

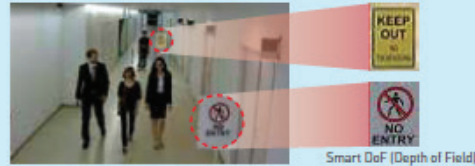
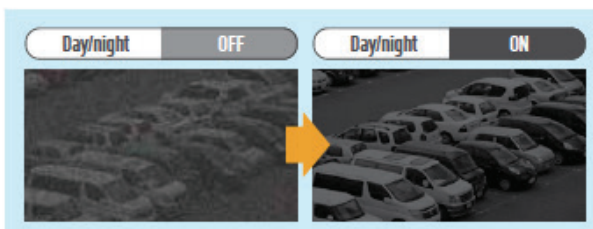
In installation environments with differences in brightness, the Super Dynamic (SD) function brightens dim areas with low visibility and reduces the brightness of areas where blown-out highlights can occur due to over-brightness, providing a natural image that is easy to view. In building entrances and similar locations, this enables the capturing of sharp images of people's faces as they enter from the outside when exposed to direct sunlight.

With the Super Dynamic (SD) function, the camera can be installed without worrying about lighting conditions that vary based on the time of day and season.



## DAY/NIGHT AUTOMATIC MODE SWITCHING

In stores, warehouses, and other locations where it is bright during the day but dark at night, the camera can automatically determine the brightness of the area and record video under the optimum conditions. During nighttime hours, the camera automatically switches to black-and-white video for providing footage with high visibility.



### Smart DoF (Depth of Field)

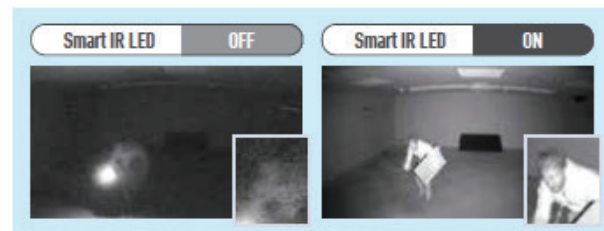
The i-PRO SmartHD Series cameras are ideal for shooting in locations with depth. When recording areas with depth, such as straight passageways or wide spaces, the optimum image can be captured with focal points simultaneously at both the near and far ends of the image.

## 0 LUX PITCH DARK LOCATIONS

Cameras with a Smart IR LED can be used to monitor environments that are completely dark. This enables areas without the level of illumination required to be monitored to prevent graffiti, illegal dumping, and property destruction.

**Smart IR LED** can illuminate a wide area so that monitoring is not limited to a specific part of the image. The built-in IR LED of the 6 Series can capture subjects up to 30 meters away. Light levels are automatically adjusted for blown out highlights and screen whitening when the IR LED shines on a subject close-by, making the right areas highly visible.

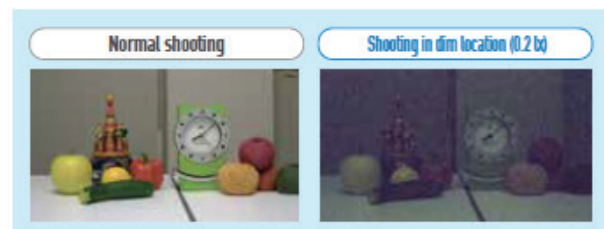
The IR LED is covered to make it difficult to detect from the outside or to know which way the lens is pointing.



## STRONG LOW LIGHT PERFORMANCE IN COLOR

Monitoring is possible even in dim locations.

Panasonic's proprietary technology enables high-sensitivity shooting that enables distinguishing of color hues even in dimly-lit locations.



\*Supported functions and specifications differ according to the models. See the specifications for each model.

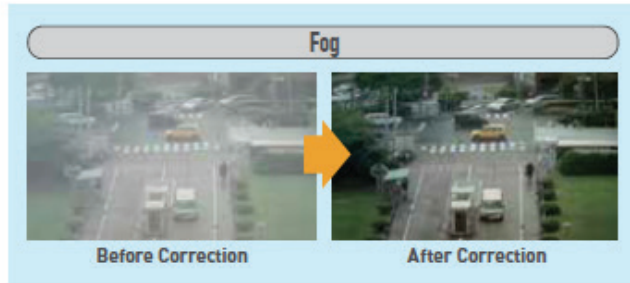
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# IMAGE COMPENSATION

## FOG / SANDSTORM COMPENSATION

A full array of features are provided for optimum shooting in fog, sandstorms, and other hazy environments. Haziness due to fog or a sandstorm is automatically removed by this function providing clear, sharp video footage.



## VISIBILITY ENHANCEMENT COATING

Water droplets from rain can adhere to the dome cover of the camera and hinder the shooting of clear images. In our Rain-wash coated models, a special coating is applied so that water droplets are repelled allowing clear images to be recorded even during rainfall. This coating is also effective at repelling dirt so that cleaning of the dome cover is required less frequently.



\* WV-SPV781L / WV-SPV781L / WV-SW598 / WV-SW397A / WV-SW396A / WV-SW395A



## HIGH LIGHT COMPENSATION

For cameras installed at locations along roads or at entrances and exits to parking lots, the glare of headlights and other strong light sources shining into the camera lens can prevent the reading of license plates and surrounding areas. Enabling the HLC (High light compensation) function reduces the brightness of strong light sources and enhances the surrounding areas for optimum video recording.





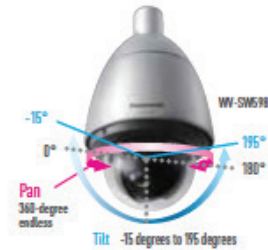
# MONITORING WITHOUT BLIND SPOTS

PTZ (Pan-Tilt-Zoom) cameras and omnidirectional cameras enable wide-area monitoring. Multiple cameras can be combined for more efficient monitoring and to eliminate blind spots.

## PTZ CAMERA FOR WIDE RANGE MONITORING AND A HIGH ZOOM RATIO

Normal fixed lens cameras can only monitor in a certain direction, but the lens of a PTZ camera can be operated remotely to switch to the direction you want to view.

Detailed areas can also be zoomed in to a maximum of 90x. Since the cameras can be infinitely rotated 360 degrees at a high speed of 300 degrees/sec, you will not miss the subjects you want to monitor.



### Preset Position / Preset Sequences

If the locations you want to monitor are fixed, you can register them in advance and move to them with a single touch or automatically patrol the registered locations. Data can be saved to a recorder when automatically patrolling the registered locations, without intervention by an operator. Ranges that cannot be covered with a single fixed lens camera can be covered by patrolling.



### Advanced Auto Tracking

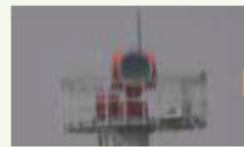
The pan, tilt, and zoom functions can be combined for automatically tracking the movement of a subject. If the tracked subject moves out of the camera's shootable range, notification is sent to other cameras so that the tracking process can be carried on without interruption.



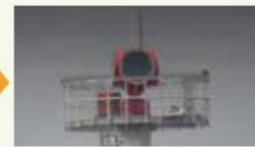
### AUTO EYELID MECHANISM (AEM)

When the direction of the camera lens is tilted upward from the horizontal plane, the video image can appear doubled due to the distorting effect of the dome cover and other causes.

The Panasonic WV-SW598 uses an AEM function to reduce this double-image effect and enables shooting of images up to 15° upward from the horizontal plane. This allows the use of auto tracking and other functions over a wider movement range of the subject.



Auto Eyelid mechanism / OFF



Auto Eyelid mechanism / ON

## 360-DEGREE MONITORING

The 360-degree Network Camera can capture images around the camera lens in all directions.

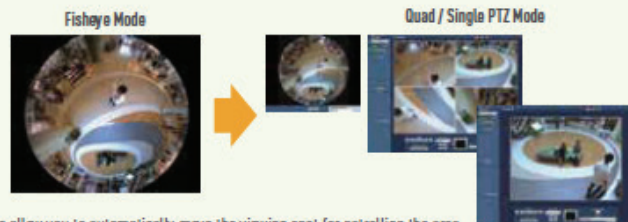
Available modes include Fisheye, Double Panorama, Panorama, Quad PTZ, and 4 Stream, and the camera can output video images based on the selected video mode for reduced loads on the viewing system.



### DE-WARPING

The 360-degree Network Camera can generate and output video images for each mode within the camera unit. Also, the Network Disk Recorder (WJ-NV300) or i-PRO Management Software (MV-ASM200) can be used on 360° omnidirectional images captured by Fisheye Mode to convert to a format that is easier to view, such as Quad PTZ. Because the 360° omnidirectional video image is stored in the recorder, nothing is missed within the viewing area.

In addition, the area that you want to view can be selected using a controller or mouse to allow you to automatically move the viewing spot for patrolling the area. Even during patrolling, areas not visible on the screen are all stored in the recorder in Fisheye Mode so that nothing is left unseen. The Pan-Tilt of the 360-degree Network Camera does not use mechanical components, and so provides a smooth movement without the mechanized wear that could adversely affect camera longevity.



\*Supported functions and specifications differ according to the models. See the specifications for each model.

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# SUPPORT FOR VARIOUS INSTALLATION ENVIRONMENTS

Panasonic network cameras are available in a full lineup of products custom-tailored for a wide range of installation environments. Their specialized design also helps to reduce the work required for installation.

## SELECT THE SPECIALIZED MODEL FOR YOUR INSTALLATION ENVIRONMENT

### Rainwater protection for outdoor installations

The outdoor models have a waterproof and dustproof structure that is rated IP66 for outdoor installation without requiring insertion in a special housing or other weatherproofing protection.



### Temperature protection for outdoor installations

Models can be selected to match your specific installation conditions and can be installed in environments with temperatures ranging from +55°C to -50°C. \*The supported temperature range varies depending on the specific model.



### DEHUMIDIFICATION DEVICE

The network camera outdoor models have a built-in dehumidifier device to lower the internal humidity for preventing cloudiness due to condensation. This eliminates blurry video images caused by clouding of the camera dome cover when installed in locations with high humidity or extreme temperature changes over the course of the day.



### Vandal Resistant

When installed in locations that are prone to vandalism and tampering, measures are required for preventing damage to the camera.

Models featuring the Vandal Resistant mechanism are ideal for installation in these types of locations.



### VANDAL RESISTANT MECHANISM

Models featuring the Vandal Resistant mechanism include a shock absorber around the internal lens. Even if the dome cover is subjected to a potentially damaging impact, the shock absorber will absorb this impact to protect the internal structure from damage.





# SUPPORT FOR VARIOUS INSTALLATION ENVIRONMENTS (continued)

Panasonic network cameras are available in a full lineup of products custom-tailored for a wide range of installation environments. Their specialized design also helps to reduce the work required for installation.

## Onboard Model

A lineup of network cameras is also available with anti-vibration and other specific features for installation in cars, buses, and other vehicles.

The WV-SBV131M, WV-SBV111M, WV-SW155MA, WV-SW158, WV-SW458MA, and WV-SFV481 are compliant with the EN50155 European railway standards.



## Mount on the Outside of the Vehicle

The rugged mobile network camera WV-SBV131M, WV-SBV111M meets the United States Department of Defense Military Standards MIL-STD-810G to withstand even the harshest of environments.

Also meeting the highest International Protection Standards IP6K9K, the camera is dust tight and waterproof.

Meeting such standards allows the camera to be mounted on the outside of busses and trains, which are constantly shaking and rained on.

The lenses' hard coated surface allows the vehicle to be put through a carwash.

Capable of withstanding temperatures ranging from -40 °C and up to +60 °C (-40 °F and up to 140 °F) the camera is highly versatile.



## Reduced Installation Time

The i-PRO SmartHD Series cameras include a number of features for reducing the time required for installation.

If you want to change the camera direction after installation, the camera direction can be changed in 90° steps without removing the base (SFV, SFR, SFN models).

The dome cover can also be easily removed to change the direction of the lens.

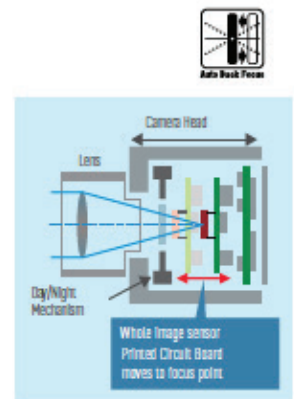
For Outdoor Box type cameras (SPW models), the stay can be bent to one of two levels to allow installation with a high degree of freedom.



## ABF (Auto back Focus)

The ABF feature automatically adjusts the image sensor position when changing from color to B/W mode, optimize the back focus required for clear, sharp images. In addition, the one-push Auto Back Focus feature sharply reduces the time required to focus cameras during installation, allowing focus to be set using the optional system controller.

The ABF function can also automatically sense and adjust to slight focal length changes due to parts warping caused by temperature changes in the area where the camera is installed.



Please find the Transit camera specifications on page 25.



# INTELLIGENT VIDEO MOTION DETECTION

The camera itself features intelligent functionality for notifying the administrator about changes to situations or dangers using a variety of methods. This eliminates the need to constantly watch the screen in the control room for reducing the TCO.

## INTRUDER DETECTION

Crossing over the fence



### Detects

- the motion of objects in the viewing or detection area. Frames and tracks are displayed around the detected moving object in the live image. Up to 8 objects can be detected simultaneously.

## DIRECTION DETECTION \*1

Objects moving in a specified direction



### Detects

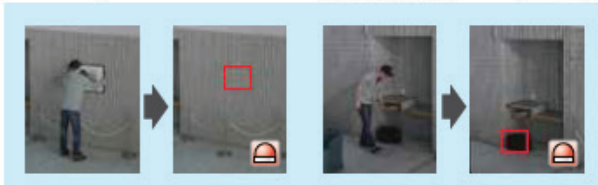
- objects moving in a specified direction. Up to 8 directions can be specified.

\*1 Type 1, type 2, type 3 network cameras (Refer to the specification pages P.12 - 27) except for WV-SFV401 and WV-SFN480

## OBJECT DETECTION \*2

Removed Object Detection

Abandoned Object Detection



### Detects

- alerts the operator when a left or removed object is detected.

\*2 Type 2, type 3 network cameras (Refer to the specification pages P.12 - 27) only

## LOITERING DETECTION

Objects staying longer than a specified time

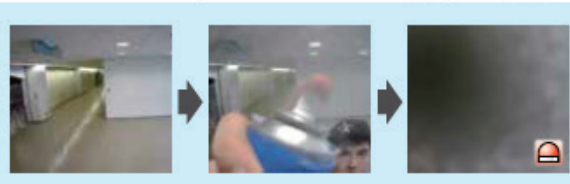


### Detects

- objects loitering for longer than a specified time, from 10 sec to 5 min.

## SCENE CHANGE DETECTION

Interference such as blockage of the lens with a cloth or spray paint



### Detects

- interference caused by tampering with the camera, such as a manual change in the camera direction or blockage of the lens with a cloth or spray paint.

## CROSS LINE DETECTION \*2

A person who crosses the virtual line to the specified direction



### Detects

- alerts the operator when people or objects cross the imaginary lines.

\*2 Type 2, type 3 network cameras (Refer to the specification pages P.12 - 27) only

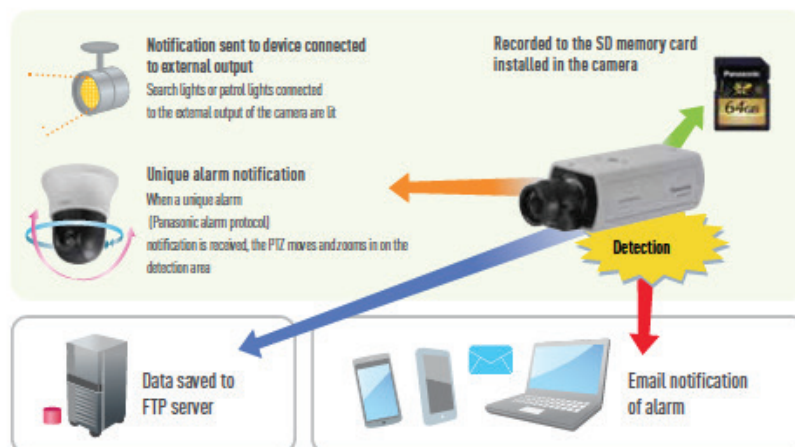
## ACTIONS WHEN AN ALARM IS DETECTED

**Monitoring**

Notification sent to the monitoring screen




Alarm notification sent to the recorder and WV-ASM200 management software

Alarm display in WV-ASM200






\*Supported functions and specifications differ according to the models. See the specifications for each model.



CAMERA TYPE		PAN TILT ZOOM		
Appearance		<b>NEW</b> Available August 2016  <b>WV-SUD638</b> <b>HD1080P</b>	 <b>ONVIF   GO</b> <b>WV-SW598A</b> <b>HD1080P</b>	 <b>ONVIF   GO</b> <b>WV-SW397B</b> <b>HD720P</b>
Sensor		1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	2	2
	JPEG multi stream	6 (Variable)	6	6
	Smart Coding	—	—	—
Max. Resolution	16 : 9	1920 x 1080	1920 x 1080	1280 x 720
	4 : 3	1280 x 960	1280 x 960	1280 x 960
Max. FPS ⊙Max. Resolution	H.264	60 fps (1080p)	30 fps (1080p)	30 fps (2.4 MP)
	JPEG	30 fps (1080p)	30 fps (1080p)	30 fps (2.4 MP)
Super Dynamic / WDR / BLC		Super Dynamic	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		Auto Focus	Auto Focus	Auto Focus
Min. Illumination	Color	0.06 lx ⊙F1.6	0.5 lx ⊙F1.6	0.3 lx ⊙F1.6
	Color (Sens up)	0.004 lx (16x)	0.03 lx (16x)	0.019 lx (16x)
	B/W	0.0 lx ⊙F1.6 (w/IR)	0.06 lx ⊙F1.6	0.04 lx ⊙F1.6
	B/W (Sens up)	—	0.004 lx (16x)	0.003 lx (16x)
Lens		f= 4.3 to 129 mm, F1.6	f= 4.3 to 129 mm, F1.6	f= 4.3 to 129 mm, F1.6
Angular field of view	16 : 9	H: 2.3 to 64 deg. / V: 1.3 to 38 deg.	H: 2.6 to 64.6 deg. / V: 1.6 to 38.2 deg.	H: 2.6 to 64.6 deg. / V: 1.6 to 38.2 deg.
	4 : 3	H: 1.8 to 50 deg. / V: 1.3 to 38 deg.	H: 1.4 to 44.4 deg. / V: 1.1 to 33.8 deg.	H: 1.4 to 44.4 deg. / V: 1.1 to 33.8 deg.
Pan	Range	Endless	Endless	Endless
	Speed	200 deg/sec	300 deg/sec	300 deg/sec
Tilt	Range	Upright: -50 to +90 deg. / Forward tilt: -90 to +90 deg. / Hanging: +30 to -90 deg.	-15 to +195 deg.	-15 to +195 deg.
	Speed	200 deg/sec	300 deg/sec	300 deg/sec
360 Pan-Flip		—	—	—
Number of Preset Positions		256	256	256
Patrol		Yes	Yes	Yes
Auto Tracking		Yes	Yes (advanced)	Yes (advanced)
Optical Zoom		30x	30x	30x (45x with Extra Zoom at HD)
Digital Zoom		12x	12x	12x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		—	—	—
VIOS		Yes (8-areas)	Yes (2-areas)	Yes (2-areas)
Max. Connection		14	14	14
Audio	In (Line)	Yes	Yes	Yes
	In (Built-in MIC)	—	—	—
	Out	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC	G.711 / G.726 / AAC (*2)	G.711 / G.726 / AAC (*2)
	Audio Detection Alarm	Yes	Yes	Yes
SD memory Card	Slot	—	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	—	—	—
	Audio REC	—	Yes	Yes
External I/O		Yes (3) (*4)	Yes (3) (*3)	Yes (3) (*3)
Monitor Out		—	Yes (Composite)	Yes (Composite)
Vandal Resistant		20J, IK10	20J, IK10	20J, IK10
Water and Dust Resistance		IP67 / IP66 / NEMA 4X	IP66 / NEMA 4	IP66
Temperature		-50 to +55 deg.	-50 to +55 deg. (24V / 60W PoE) (*4) -30 to +55 deg. (PoE+)	-50 to +55 deg. (24V) -30 to +55 deg. (PoE+)
Power Source		AC100 to 240V / 60W Injector	24 V AC / PoE+	24 V AC / PoE+
Dehumidification device		Yes	Yes	Yes
Other Functions		Built-in wiper, Defloster	Built-in heater, Rain wash coating, Auto Eyelid Mechanism	Built-in heater, Auto Eyelid Mechanism, Rain wash coating (WV-SW397A)
Mounting Options		TBA	See page 50	See page 50



(\*2): Only for SD REC (\*3): Alarm In1 (Day/Night In), Alarm In2 (Alarm Out), Alarm In3 (AIK Out) (x1 for each) (\*4): Tested PoE injector



CAMERA TYPE		PAN TILT ZOOM		
Appearance				
Sensor		1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / MPEG-4 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	2	2	2
	JPEG multi stream	6	6	6
	Smart Coding	—	—	—
Max. Resolution	16 : 9	1280 x 720	1920 x 1080	1280 x 720
	4 : 3	1280 x 960	1280 x 960	1280 x 960
Max. FPS @Max. Resolution	H.264	30 fps (1.3 MP)	30 fps (1080p)	30 fps (2.4 MP)
	JPEG	30 fps (1.3 MP)	30 fps (1080p)	30 fps (2.4 MP)
Super Dynamic / WDR / BLC		Super-D	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		Auto Focus	Auto Focus	Auto Focus
Min. Illumination	Color	0.5 lx @F1.6	0.5 lx @F1.6	0.3 lx @F1.6
	Color (Sens up)	0.03 lx (16x)	0.03 lx (16x)	0.019 lx (16x)
	B/W	0.06 lx @F1.6	0.06 lx @F1.6	0.04 lx @F1.6
	B/W (Sens up)	0.004 lx (16x)	0.004 lx (16x)	0.003 lx (16x)
Lens		f= 4.7 to 84.6 mm, F1.6	f= 4.3 to 129 mm, F1.6	f= 4.3 to 129 mm, F1.6
Angular field of view	16 : 9	H: 3.2 to 55.2 deg. / V: 1.9 to 31.9 deg.	H: 2.34 to 65.1 deg. / V: 1.36 to 38.4 deg.	H: 2.34 to 65.1 deg. / V: 1.36 to 38.4 deg.
	4 : 3	H: 3.2 to 55.2 deg. / V: 2.4 to 42.1 deg.	H: 1.6 to 45.2 deg. / V: 1.2 to 34.3 deg.	H: 1.6 to 45.2 deg. / V: 1.2 to 34.3 deg.
Pan	Range	0 to +350 deg.	Endless	Endless
	Speed	300 deg/sec	300 deg/sec	300 deg/sec
Tilt	Range	-30 to +90 deg.	-25 to +205 deg.	-25 to +205 deg.
	Speed	100 deg/sec	300 deg/sec	300 deg/sec
360 Pan-Flip		Yes	—	—
Number of Preset Positions		64	256	256
Patrol		—	Yes	Yes
Auto Tracking		Yes	Yes (advanced)	Yes (advanced)
Optical Zoom		18x	30x	30x (45x with Extra Zoom at HD)
Digital Zoom		12x	12x	12x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) fw/extension software		—	—	—
VIOS		—	Yes (2-areas)	Yes (2-areas)
Max. Connection		14	14	14
Audio	In (Line)	Yes	Yes	Yes
	In (Built-in MIC)	—	—	—
	Out	Yes	Yes	Yes
	Codec	G.711 / G.726	G.711 / G.726 / AAC (*1)	G.711 / G.726 / AAC (*1)
SD memory Card	Audio Detection Alarm	—	Yes	Yes
	Slot	Yes (SDHC)	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	—	—	—
	Audio REC	—	Yes	Yes
External I/O		Yes (3) (*3)	Yes (3) (*2)	Yes (3) (*2)
Monitor Out		Yes (Composite)	Yes (Mini-jack)	Yes (Mini-jack)
Vandal Resistant		20J, IK10	—	—
Water and Dust Resistance		IP66	—	—
Temperature		-40 to +50 deg. (24 V) -30 to +50 deg. (PoE+)	-10 to +55 deg.	-10 to +55 deg.
Power Source		24 V AC / PoE+	12 V DC / PoE	12 V DC / PoE
Dehumidification device		Yes	—	—
Other Functions		Built-in heater, Rainwash coating (WV-SW395A)	Dome less	Dome less
Mounting Options		See page 50	See pages 48, 49	See pages 48, 49

(\*1): Only for SD REC. (\*2): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each)








CAMERA TYPE		PAN TILT ZOOM	
Appearance		 Onvif   S WV-SC385 HD720P	 Onvif   S WV-SC384 HD720P
Sensor		1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG
	H.264 multi stream	2	2
	JPEG multi stream	6	6
	Smart Coding	—	—
Max. Resolution	16 : 9	1280 x 720	1280 x 720
	4 : 3	1280 x 960	1280 x 960
Max. FPS @Max. Resolution	H.264	30 fps (1.3 MP)	30 fps (1.3 MP)
	JPEG	30 fps (1.3 MP)	30 fps (1.3 MP)
Super Dynamic / WDR / BLC		Super-D	WDR
Day/Night		Yes (ICR)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist		Auto Focus	Auto Focus
Min. Illumination	Color	0.5 lx @F1.6	0.6 lx @F1.6
	Color (Sens up)	0.03 lx (16x)	0.038 lx (16x)
	B/W	0.06 lx @F1.6	0.5 lx @F1.6
	B/W (Sens up)	0.004 lx (16x)	0.03 lx (16x)
Lens		f= 4.7 to 84.6 mm, F1.6	f= 4.7 to 84.6 mm, F1.6
Angular field of view	16 : 9	H: 3.2 to 55.2 deg. / V: 1.9 to 31.9 deg.	H: 3.2 to 55.2 deg. / V: 1.9 to 31.9 deg.
	4 : 3	H: 3.2 to 55.2 deg. / V: 2.4 to 42.1 deg.	H: 3.2 to 55.2 deg. / V: 2.4 to 42.1 deg.
Pan	Range	0 to +350 deg.	0 to +350 deg.
	Speed	300 deg/sec	300 deg/sec
Tilt	Range	-30 to +90 deg.	-30 to +90 deg.
	Speed	100 deg/sec	100 deg/sec
360 Pan-Flip		Yes	Yes
Number of Preset Positions		64	64
Patrol		—	—
Auto Tracking		Yes	—
Optical Zoom		18x	18x
Digital Zoom		12x	8x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		—	—
VIDS		—	—
Max. Connection		14	14
Audio	In (Line)	Yes	Yes
	In (Built-in MIC)	—	—
	Out	Yes	Yes
	Codec	G.711 / G.726	G.711 / G.726
Audio Detection Alarm		—	—
SD memory Card	Slot	Yes (SDHC)	Yes (SDHC)
	Password & Alter Detection	—	—
	Audio REC	—	—
External VO		Yes (3/1)	Yes (3/1)
Monitor Out		Yes (Mini-jack)	Yes (Mini-jack)
Vandal Resistant		—	—
Water and Dust Resistance		—	—
Temperature		-10 to +50 deg.	-10 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE
Dehumidification device		—	—
Other Functions		—	—
Mounting Options		See pages 48, 49	See pages 48, 49

(\*)1: Only for SD REC. (\*)2: Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(All Out) (xt for each)







# COMPATIBILITY CHARTS

Panasonic

CAMERA TYPE		FIXED DOME				
Appearance		 ONVIF   S+ VW-SFV781L 4K Engine	 ONVIF   S+ VW-SFV631LT HD1080P	 ONVIF   S+ VW-SFV631L HD1080P	 ONVIF   S+ VW-SFV611L HD720P	 ONVIF   S+ VW-SFV531 HD1080P
Sensor		1/1.7 MOS	1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4	4	4
	JPEG multi stream	2	6 (Variable)	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes (GOP Only)	Yes	Yes	Yes	Yes
Max. Resolution	16 : 9	3840 x 2160	1920 x 1080	1920 x 1080	1280 x 720	1920 x 1080
	4 : 3	4000 x 3000	2048 x 1536 (*1)	2048 x 1536 (*1)	1280 x 960	2048 x 1536 (*1)
Max. FPS @Max. Resolution	H.264	30fps (4K)	60fps (1080p)	60fps (1080p)	60fps (720p)	60fps (1080p)
	JPEG	15fps (12 MP)	30fps (3 MP)	30fps (3 MP)	30fps (1.3 MP)	30fps (3 MP)
Super Dynamic / WDR / BLC		WDR	Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		ABF	ABF	ABF	ABF	ABF
Min. Illumination	Color	0.3 lx @F1.6	0.06 lx @F1.6	0.04 lx @F1.3	0.01 lx @F1.3	0.07 lx @F1.6
	Color (Sens up)	0.02 lx (16x)	0.0045 lx (16x)	0.003 lx (16x)	0.0007 lx (16x)	0.005 lx (16x)
	B/W	0.0 lx @F1.6 (w/IR)	0.0 lx @F1.6 (w/IR)	0.0 lx @F1.3 (w/IR)	0.0 lx @F1.3 (w/IR)	0.01 lx @F1.6
	B/W (Sens up)	—	—	—	—	0.0007 lx (16x)
Lens		f-4.2 to 25.2 mm, F1.6 Motorized	f-9 to 22 mm, F1.6 Motorized	f- 2.8 to 10 mm, F1.3 Motorized	f- 2.8 to 10 mm, F1.3 Motorized	f-2.8 to 9.5 mm, F1.6
Angular field of view	16 : 9	H: 17 to 96 deg. V: 9.3 to 54 deg.	H: 13.8 to 33.0 deg. V: 7.7 to 17.8 deg.	H: 28.8 to 102.6 deg. V: 16.0 to 56.0 deg.	H: 26.4 to 93.7 deg. V: 14.8 to 51.6 deg.	H: 31 to 109 deg. V: 18 to 59 deg.
	4 : 3	H: 17 to 100 deg. V: 13 to 75 deg.	H: 11.5 to 27.0 deg. V: 8.6 to 19.9 deg.	H: 23.7 to 84.3 deg. V: 17.8 to 62.4 deg.	H: 26.4 to 93.7 deg. V: 20 to 69.3 deg.	H: 26 to 89 deg. V: 20 to 66 deg.
Adjusting Angle	Pan	-180 to +180 deg.	-180 to +180 deg.	-180 to +180 deg.	-180 to +180 deg.	-180 to +180 deg.
	Tilt	0 to +85 deg.	0 to +85 deg.	0 to +85 deg.	0 to +85 deg.	-85 to +85 deg.
Optical Zoom		6x	2.4x	3.6x	3.6x	3.3x
Digital Zoom		4x	4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		—	Yes (Type2)	Yes (Type2)	Yes (Type2)	Yes (Type2)
VIOS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14	14
Audio	In (Line)	Yes	Yes	Yes	Yes	Yes
	In (Built-in MIC)	—	—	—	—	—
	Out	Yes	Yes	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC (*2)	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC
SD memory Card	Audio Detection Alarm	—	Yes	Yes	Yes	Yes
	Slot	Yes (SDXC)	Yes (SDXC x 2)	Yes (SDXC x 2)	Yes (SDXC x 2)	Yes (SDXC)
	Password & Alter Detection	—	Yes (V1.52)	Yes (V1.52)	Yes (V1.52)	Yes
	Audio REC	Yes	Yes	Yes	Yes	Yes
External I/O		Yes (3) (*3)	Yes (3) (*4)	Yes (3) (*4)	Yes (3) (*4)	Yes (3) (*4)
Monitor Out		Yes (RCA)	Yes (mini jack)	Yes (mini jack)	Yes (mini jack)	Yes (mini jack)
Vandal Resistant		20J, IK10	50J, IK10	50J, IK10	50J, IK10	50J, IK10
Water and Dust Resistance		IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature		-45 to +50 deg.	-45 to +50 deg.	-45 to +50 deg.	-45 to +50 deg.	-40 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		Yes	Yes	Yes	Yes	Yes
Other Functions		Smart-DoF, Built-in heater, Rain wash coating, Built-in IR LED	Smart-DoF, Built-in heater, Built-in IR LED	Smart-DoF, Built-in heater, Built-in IR LED	Smart-DoF, Built-in heater, Built-in IR LED	Built-in heater
Mounting Options		See pages 46, 47	See pages 46, 47	See pages 46, 47	See pages 46, 47	See pages 46, 47






(\*1): w/ Super resolution (\*2): Only for SD REC (\*3): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out, Day/Night Out) (x1 for each) (\*4): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each)



CAMERA TYPE		FIXED DOME			
Appearance					
Sensor		1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes	Yes	Yes	Yes
Max. Resolution	16 : 9	1920 x 1080 (*1) / 1280 x 720	1920 x 1080 (*1) / 1280 x 720	1920 x 1080	1280 x 720
	4 : 3	1280 x 960	1280 x 960	2048x1536	1280 x 960
Max. FPS @Max. Resolution	H.264	60fps (720p)	60fps (720p)	30fps (3MP)	30fps (1.3MP)
	JPEG	30fps (1.3 MP)	30fps (1.3 MP)	30fps (3MP)	30fps (1.3MP)
Super Dynamic / WDR / BLC		Enhanced SD	Enhanced SD	Super Dynamic	Super Dynamic
Day/Night		Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist		ABF	Focus Assist	—	—
Min. Illumination	Color	0.01 lx @F1.6	0.01 lx @F1.6	0.1 lx @F2.3	0.04 lx @F2.3
	Color (Sens up)	0.0007 lx (16x)	0.0007 lx (16x)	0.007 lx (16x)	0.003 lx (16x)
	B/W	0.003 lx @F1.6	0.008 lx @F1.6	0.08 lx @F2.3	0.03 lx @F2.3
	B/W (Sens up)	0.0002 lx (16x)	0.0005 lx (16x)	0.005 lx (16x)	0.002 lx (16x)
Lens		f= 2.8 to 10 mm, F1.6	f= 2.8 to 10 mm, F1.6	f= 2.8mm, F2.3	f= 2.8mm, F2.3
Angular field of view	16 : 9	H: 28 to 99 deg. V: 16 to 54 deg.	H: 28 to 99 deg. V: 16 to 54 deg.	H: 108 deg. V: 60 deg.	H: 100 deg. V: 55 deg.
	4 : 3	H: 28 to 99 deg. V: 21 to 72 deg.	H: 28 to 99 deg. V: 21 to 72 deg.	H: 89 deg. V: 66 deg.	H: 100 deg. V: 73 deg.
Adjusting Angle	Pan	-180 to +180 deg.	-180 to +180 deg.	-20 to +20 deg.	-20 to +20 deg.
	Tilt	-85 to +85 deg.	-85 to +85 deg.	-20 to +90 deg.	-20 to +90 deg.
Optical Zoom		3.6x	3.6x	—	—
Digital Zoom		4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes	Yes	Yes (Type2)	Yes (Type2)
VIQS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14
Audio	In (Line)	Yes	—	—	—
	In (Built-in MIC)	—	—	Yes	Yes
	Out	Yes	—	—	—
	Codec	6.711 / 6.726 / AAC	—	6.711 / 6.726 / AAC	6.711 / 6.726 / AAC
	Audio Detection Alarm	Yes	—	Yes	Yes
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	Yes	Yes	Yes	Yes
	Audio REC	Yes	—	Yes	Yes
External I/O		Yes (3) (*3)	Yes (3) (*4)	—	—
Monitor Out		Yes (mini jack)	Yes (mini jack)	—	—
Vandal Resistant		50J, IK10	50J, IK10	IK10	IK10
Water and Dust Resistance		IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature		-40 to +50 deg. (in operation)	-40 to +50 deg. (in operation)	-40 to +60 deg.	-40 to +60 deg. C
Power Source		12 V DC / PoE	12 V DC / PoE	PoE	PoE
Dehumidification device		Yes	Yes	—	—
Other Functions		Built-in heater	Built-in heater	Railway Application (EN50155-T3, EN50121, EN45545, EN50498 and ECE-R10 (SFV130M))	Railway Application (EN50155-T3, EN50121, EN45545, EN50498 and ECE-R10 (SFV110M))
Mounting Options		See pages 46, 47	See pages 46, 47	TBA	TBA

(\*1): with Simple Full-HD mode (variable name) (\*2): Alarm In1 (Day/Night In), Alarm In2 (Alarm Out), Alarm In3 (AIK Out) (x1 for each) (\*3): Alarm In1 (Day/Night In, Auto time adjustment), Alarm In2 (Alarm Out), Alarm In3 (AIK Out) (x1 for each) (\*4): Alarm In1 (Auto time adjustment), Alarm In2 (Alarm Out), Alarm In3 (AIK Out) (x1 for each) (\*5): SFV110/130: 10BASE-T/100BASE-TX, RJ45 connector, SFV110M/130M: 10BASE-T/100BASE-TX, MT2 connector







CAMERA TYPE		FIXED DOME				
Appearance		 <b>ONVIF   S3</b> <b>WV-SBV131M (*4)</b> HD1080P	 <b>ONVIF   S3</b> <b>WV-SBV111M (*4)</b> HD720P	 <b>ONVIF   S</b> <b>WV-SW115</b> HD720P	 <b>ONVIF   S3</b> <b>WV-SFR631L</b> HD1080P	 <b>ONVIF   S3</b> <b>WV-SFR611L</b> HD720P
Sensor		1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	2	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6	6 (Variable)	6 (Variable)
	Smart Coding	—	—	—	Yes	Yes
Max. Resolution	16 : 9	1920 x 1080	1280 x 720	1280 x 720	1920 x 1080	1280 x 720
	4 : 3	2048 x 1536 (*2)	1280 x 960	1280 x 960	2048 x 1536 (*1)	1280 x 960
Max. FPS @Max. Resolution	H.264	30fps (1080p)	30fps (720p)	30fps (1.3 MP)	60fps (1080p)	60fps (720p)
	JPEG	30fps (3 MP)	30fps (1.3 MP)	30fps (1.3 MP)	30fps (3 MP) (*1)	30fps (1.3 MP)
Super Dynamic / WDR / BLC		WDR	WDR	Super-D	Enhanced SD	Enhanced SD
Day/Night		Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		—	—	—	ABF	ABF
Min. Illumination	Color	0.1 lx @F2.2	0.04 lx @F2.2	0.8 lx @F2.2	0.04 lx @F1.3	0.01 lx @F1.3
	Color (Sens up)	0.007 lx (16x)	0.003 lx (16x)	0.05 lx (16x)	0.003 lx (16x)	0.0007 lx (16x)
	B/W	0.06 lx @F2.2	0.03 lx @F2.2	0.6 lx @F2.2	0.0 lx @F1.3(w/IR)	0.0 lx @F1.3(w/IR)
	B/W (Sens up)	0.004 lx (16x)	0.002 lx (16x)	0.04 lx (16x)	—	—
Lens		f= 1.95 mm, F2.2	f= 1.95 mm, F2.2	f= 1.95 mm, F2.2	f= 2.8 to 10 mm, F1.3 Motorized	f= 2.8 to 10 mm, F1.3 Motorized
Angular field of view	16 : 9	H: 109 deg. V: 73 deg.	H: 104 deg. V: 69 deg.	H: 104 deg. V: 68 deg.	H: 28.8 to 102.9 deg. V: 16.0 to 56.2 deg.	H: 26.4 to 94.0 deg. V: 14.7 to 51.8 deg.
	4 : 3	H: 97 deg. V: 79 deg.	H: 104 deg. V: 85 deg.	H: 104 deg. V: 85 deg.	H: 23.8 to 84.6 deg. V: 17.8 to 62.6 deg.	H: 26.4 to 94.0 deg. V: 19.8 to 69.5 deg.
Adjusting Angle	Pan	-170 to +170 deg.	-170 to +170 deg.	-30 to +30 deg.	-180 to +180 deg.	-180 to +180 deg.
	Tilt	-90 to +90 deg.	-90 to +90 deg.	-30 to +30 deg.	0 to +85 deg.	0 to +85 deg.
Optical Zoom		—	—	—	3.6x	3.6x
Digital Zoom		3x	3x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) fw/extension software)		—	—	—	Yes (Type2)	Yes (Type2)
VIQS		Yes (8-areas)	Yes (8-areas)	Yes (1-area)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14	14
Audio	In (Line)	Yes	Yes	—	Yes	Yes
	In (Built-in MIC)	—	—	—	—	—
	Out	Yes	Yes	—	Yes	Yes
	Codec	G.726(ADPCM)	G.726(ADPCM)	—	G.711 / G.726 / AAC	G.711 / G.726 / AAC
	Audio Detection Alarm	—	—	—	Yes	Yes
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC)	Yes (SDHC)	Yes (SDXC x 2)	Yes (SDXC x 2)
	Password & Alter Detection	—	—	—	Yes (V1.52)	Yes (V1.52)
	Audio REC	—	—	—	Yes	Yes
External I/O		—	—	—	Yes (3) (*2)	Yes (3) (*2)
Monitor Out		—	—	—	Yes (mini jack)	Yes (mini jack)
Vandal Resistant		IK10	IK10	20J, IK10	20J, IK10	20J, IK10
Water and Dust Resistance		IP6K9K / IP66 / NEMA 4X	IP6K9K / IP66 / NEMA 4X	IP66 / NEMA 4X	—	—
Temperature		-40 to +60 deg.	-40 to +60 deg.	-30 to +50 deg.	-10 to +50 deg.	-10 to +50 deg.
Power Source		PoE	PoE	PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		—	—	—	—	—
Other Functions		MIL-STD-810G EN50155-T3, EN50121, EN45545, EN50498, ECE-R10	MIL-STD-810G EN50155-T3, EN50121, EN45545, EN50498, ECE-R10	EN50155, EN50121	Smart-DoF, Built-in IR LED	Smart-DoF, Built-in IR LED
Mounting Options		TBA	TBA	—	See pages 46, 47	See pages 46, 47

(\*1): w/Super resolution (\*2): Alarm In1/DayNight In, Alarm In2/Alarm Out, Alarm In3/AUX Out (x1 for each) (\*3): Alarm In1, Alarm In2/Alarm Out, Alarm In3/AUX Out (x1 for each)

(\*4): SBV111M/131M: 10GA SE-1/100GA SE-1X, M12 connector






CAMERA TYPE		FIXED DOME			
Appearance					
Sensor		1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes	Yes	Yes	Yes
Max. Resolution	16 : 9	1920 x 1080	1920 x 1080 (*1) / 1280 x 720	1920 x 1080 (*1) / 1280 x 720	1920 x 1080
	4 : 3	2048 x 1536 (*1)	1280 x 960	1280 x 960	2048 x 1536 (*2)
Max. FPS @Max. Resolution	H.264	60fps (1080p)	60fps (720p)	60fps (720p)	60fps (1080p)
	JPEG	30fps (3 MP) (*1)	30fps (1.3 MP)	30fps (1.3 MP)	30fps (3 MP) (*2)
Super Dynamic / WDR / BLC		Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Day/Night		Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		ABF	ABF	Focus Assist	ABF
Min. Illumination	Color	0.07 lx @F1.6	0.01 lx @F1.6	0.01 lx @F1.6	0.04 lx @F1.3
	Color (Sens up)	0.005 lx (16x)	0.0007 lx (16x)	0.0007 lx (16x)	0.003 lx (16x)
	B/W	0.01 lx @F1.6	0.003 lx @F1.6	0.008 lx @F1.6	0.0 lx @F1.3 (w/IR)
	B/W (Sens up)	0.0007 lx (16x)	0.0002 lx (16x)	0.0005 lx (16x)	—
Lens		f= 2.8 to 9.5 mm, F1.6	f= 2.8 to 10 mm, F1.6	f= 2.8 to 10 mm, F1.6	f= 2.8 to 10 mm, F1.3 Motorized
Angular field of view	16 : 9	H: 31 to 109 deg. V: 18 to 59 deg.	H: 28 to 99 deg. V: 16 to 54 deg.	H: 28 to 99 deg. V: 16 to 54 deg.	H: 29.3 to 104.1 deg. V: 16.2 to 56.8 deg.
	4 : 3	H: 26 to 89 deg. V: 20 to 66 deg.	H: 28 to 99 deg. V: 21 to 72 deg.	H: 28 to 99 deg. V: 21 to 72 deg.	H: 24.0 to 85.5 deg. V: 18.0 to 63.3 deg.
Adjusting Angle	Pan	+120(right) to -240(left) deg.	+120 to -240 deg.	+120 to -240 deg.	-180 to +180 deg.
	Tilt	-85 to +85 deg.	-85 to +85 deg.	-85 to +85 deg.	0 to +85 deg.
Optical Zoom		3.3x	3.6x	3.6x	3.6x
Digital Zoom		4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes (Type2)	Yes	Yes	Yes (Type2)
VIQS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14
Audio	In (Line)	Yes	Yes	—	Yes
	In (Built-in MIC)	—	—	—	—
	Out	Yes	Yes	—	Yes
	Codec	G.711 / G.726 / AAC	G.711 / G.726 / AAC	—	G.711 / G.726 / AAC
Audio Detection Alarm		Yes	Yes	—	Yes
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC x 2)
	Password & Alter Detection	Yes	Yes	Yes	Yes (V1.52)
	Audio REC	Yes	Yes	—	Yes
External VO		Yes (3) (*3)	Yes (3) (*3)	Yes (3) (*4)	Yes (3) (*5)
Monitor Out		Yes (mini jack)	Yes (mini jack)	Yes (mini jack)	Yes (mini jack)
Vandal Resistant		20J, IK10	20J, IK10	20J, IK10	—
Water and Dust Resistance		—	—	—	—
Temperature		-10 to +50 deg.	-10 to +50 deg.	-10 to +50 deg.	-10 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		—	—	—	—
Other Functions		—	—	—	Smart-DoF, Built-in IR LED
Mounting Options		See pages 46, 47	See pages 46, 47	See pages 46, 47	See pages 46, 47

(\*1): with Simple Full-HD mode (variable frame rate) (\*2): w/Super resolution (\*3): Alarm In1 (Day/Night In, Auto time adjustment), Alarm In2 (Alarm Out), Alarm In3 (AIUX Out) (x1 for each)

(\*4): Alarm In1 (Auto time adjustment), Alarm In2 (Alarm Out), Alarm In3 (AIUX Out) (x1 for each) (\*5): Alarm In1 (Day/Night In), Alarm In2 (Alarm Out), Alarm In3 (AIUX Out) (x1 for each) (\*6): Alarm In1, Alarm In2 (Alarm Out), Alarm In3 (AIUX Out) (x1 for each)






CAMERA TYPE		FIXED DOME		
Appearance				
Sensor		1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes	Yes	Yes
Max. Resolution	16 : 9	1280 x 720	1920 x 1080	1920 x 1080(*1) / 1280 x 720
	4 : 3	1280 x 960	2048 x 1536 (*1)	1280 x 960
Max. FPS @Max. Resolution	H.264	60fps (720p)	60fps (1080p)	60fps (720p)
	JPEG	30fps (1.3 MP)	30fps (3 MP) (*1)	30fps (1.3 MP)
Super Dynamic / WDR / BLC		Enhanced SD	Enhanced SD	Enhanced SD
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		ABF	ABF	ABF
Min. Illumination	Color	0.01 lx @F1.3	0.07 lx @F1.6	0.01 lx @F1.6
	Color (Sens up)	0.0007 lx (16x)	0.005 lx (16x)	0.0007 lx (16x)
	B/W	0.0 lx @F1.3 (w/IR)	0.01 lx @F1.6	0.003 lx @F1.6
	B/W (Sens up)	—	0.0007 lx (16x)	0.0002 lx (16x)
Lens		f= 2.8 to 10 mm, F1.3 Motorized	f= 2.8 to 9.5 mm, F1.6	f= 2.8 to 10 mm, F1.6
Angular field of view	16 : 9	H: 26.6 to 95.1 deg. V: 14.9 to 52.3 deg.	H: 32 to 110 deg. V: 18 to 60 deg.	H: 28 to 100 deg. V: 16 to 54 deg.
	4 : 3	H: 26.7 to 95.1 deg. V: 20.0 to 70.2 deg.	H: 27 to 91 deg. V: 20 to 66 deg.	H: 28 to 100 deg. V: 21 to 73 deg.
Adjusting Angle	Pan	-180 to +180 deg.	+120(right) to -240(left) deg.	+120 to -240 deg.
	Tilt	0 to +85 deg.	-85 to +85 deg.	-85 to +85 deg.
Optical Zoom		3.6x	3.3x	3.6x
Digital Zoom		4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes (Type2)	Yes (Type2)	Yes
VIDS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14
Audio	In (Line)	Yes	Yes	Yes
	In (Built-in MIC)	—	—	—
	Out	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC
	Audio Detection Alarm	Yes	Yes	Yes
SD memory Card	Slot	Yes (SDXC x 2)	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	Yes (V1.52)	Yes	Yes
	Audio REC	Yes	Yes	Yes
External I/O		Yes (3) (*6)	Yes (3) (*2)	Yes (3) (*2)
Monitor Out		Yes (mini jack)	Yes (mini jack)	Yes (mini jack)
Vandal Resistant		—	—	—
Water and Dust Resistance		—	—	—
Temperature		-10 to +50 deg.	-10 to +50 deg.	-10 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		—	—	—
Other Functions		Smart-DoF, Built-in IR LED	—	—
Mounting Options		See pages 46, 47	See pages 46, 47	See pages 46, 47

(\*1): with Simple Full-HD mode (recursive name) (\*2): Alarm In 1 (Day/Night In, Auto time adjustment), Alarm In 2 (Alarm Out), Alarm In 3 (AIUC Out) (x1 for each)

(\*3): Alarm In 1 (Auto time adjustment), Alarm In 2 (Alarm Out), Alarm In 3 (AIUC Out) (x1 for each)








CAMERA TYPE		FIXED DOME		
Appearance		 Onvif   3 WV-SFN310A HD720P	<b>NEW</b> Available May 2016  Onvif   3 WV-SFN130 HD1080P	<b>NEW</b> Available May 2016  Onvif   3 WV-SFN110 HD720P
Sensor		1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes	Yes	Yes
Max. Resolution	16 : 9	1920 x 1080(*1) / 1280 x 720	1920 x 1080	1280 x 720
	4 : 3	1280 x 960	2048 x 1536	1280 x 960
Max. FPS @Max. Resolution	H.264	60fps (720p)	30fps (3MP)	30fps (1.3MP)
	JPEG	30fps (1.3 MP)	30fps (3MP)	30fps (1.3MP)
Super Dynamic / WDR / BLC		Enhanced SD	Super Dynamic	Super Dynamic
Day/Night		Yes (Electrical)	Yes (Electrical)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist		Focus Assist	—	—
Min. Illumination	Color	0.01 lx @F1.6	0.1 lx @F2.3	0.04 lx @F2.3
	Color (Sens up)	0.0007 lx (16x)	0.007 lx (16x)	0.003 lx (16x)
	B/W	0.008 lx @F1.6	0.08 lx @F2.3	0.03 lx @F2.3
	B/W (Sens up)	0.0005 lx (16x)	0.005 lx (16x)	0.002 lx (16x)
Lens		f= 2.8 to 10 mm, F1.6	f= 2.8mm, F2.3	f= 2.8mm, F2.3
Angular field of view	16 : 9	H: 28 to 100 deg. V: 16 to 54 deg.	H: 108 deg. V: 60 deg.	H: 100 deg. V: 55 deg.
	4 : 3	H: 28 to 100 deg. V: 21 to 73 deg.	H: 89 deg. V: 66 deg.	H: 100 deg. V: 73 deg.
Adjusting Angle	Pan	+120 to -240 deg.	-20 to +20 deg.	-20 to +20 deg.
	Tilt	-85 to +85 deg.	-20 to +90 deg.	-20 to +90 deg.
Optical Zoom		3.6x	—	—
Digital Zoom		4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes	Yes (Type2)	Yes (Type2)
VIQS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14
Audio	In (Line)	—	—	—
	In (Built-in MIC)	Yes	Yes	Yes
	Out	—	—	—
	Codec	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC
	Audio Detection Alarm	Yes	Yes	Yes
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	Yes	Yes	Yes
	Audio REC	Yes	Yes	Yes
External I/O		Yes (3) (*3)	—	—
Monitor Out		Yes (mini jack)	—	—
Vandal Resistant		—	—	—
Water and Dust Resistance		—	—	—
Temperature		-10 to +50 deg.	0 to +40 deg. C	0 to +40 deg. C
Power Source		12 V DC / PoE	PoE	PoE
Dehumidification device		—	—	—
Other Functions		—	—	—
Mounting Options		See pages 46, 47	TBA	TBA

(\*1): with Simple Full-HD mode (tentative name) (\*2): Alarm In1 (Day/Night In, Auto time adjustment), Alarm In 2 (Alarm Out), Alarm In 3 (AUX Out) (x1 for each)

(\*3): Alarm In1 (Auto time adjustment), Alarm In 2 (Alarm Out), Alarm In 3 (AUX Out) (x1 for each)







CAMERA TYPE		360-DEGREE DOME				
Appearance						
Sensor		1/2 MOS	1/3 MOS	1/2 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	2	2	2	2	2
	JPEG multi stream	2	6	2	6	6
	Smart Coding	Yes (GOP Only)	—	Yes (GOP Only)	—	—
Max. Resolution	16 : 9	2560 x 1440	1920 x 1080	2560 x 1440	1920 x 1080	1920 x 1080
	4 : 3	2560 x 1920 2992 x 2992 (1:1)	H.264: 1280 x 960 JPEG : 2048 x 1536	2560 x 1920 2992 x 2992 (1:1)	H.264: 1280 x 960 JPEG : 2048 x 1536	H.264: 1280 x 960 JPEG : 2048 x 1536
Max. FPS @Max. Resolution	H.264	30fps (4 M)	30fps (1080p)	30fps (4 M)	30fps (1080p)	30fps (1080p)
	JPEG	30fps (4 M)	15fps (3 MP) / 30fps (1080p)	30fps (4 M)	15fps (3 MP) / 30fps (1080p)	15fps (3 MP) / 30fps (1080p)
Super Dynamic / WDR / BLC		WDR	Super-D	WDR	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist		ABF	—	ABF	—	—
Min. Illumination	Color	0.3 lx @F1.9	1.5 lx @F2.4	0.3 lx @F1.9	1.5 lx @F2.4	1.5 lx @F2.4
	Color (Sens up)	0.02 lx (16x)	0.1 lx (16x)	0.02 lx (16x)	0.1 lx (16x)	0.1 lx (16x)
	B/W	0.04 lx @F1.9	1.2 lx @F2.4	0.2 lx @F1.9	1.2 lx @F2.4	1.2 lx @F2.4
	B/W (Sens up)	0.003 lx (16x)	0.08 lx (16x)	0.01 lx (16x)	0.08 lx (16x)	0.08 lx (16x)
Lens		f= 1.38 mm, F1.9	f= 0.837 mm, F2.4	f= 1.38 mm, F1.9	f= 0.837 mm, F2.4	f= 0.837 mm, F2.4
Angular field of view		1 : 1 H: 180 deg. V: 180 deg.	H: 182 deg. V: 176 deg.	H: 180 deg. V: 180 deg.	H: 182 deg. V: 176 deg.	H: 180 deg. V: 181 deg.
Adjusting Angle	Pan	±45 deg.	—	±45 deg.	—	—
	Tilt	±45 deg.	—	±45 deg.	—	—
Optical Zoom		—	—	—	—	—
Digital Zoom		4x	4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes (Type3)	—	Yes (Type3)	—	—
VIOS		Yes (8-areas)	Yes (2-areas)	Yes (8-areas)	Yes (2-areas)	Yes (2-areas)
Max. Connection		14	14	14	14	14
Audio	In (Line)	Yes	Yes	Yes	Yes	Yes
	In (Built-in MIC)	—	—	Yes	Yes	Yes
	Out	Yes	Yes	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC	G.711 / G.726	G.711 / G.726 / AAC	G.711 / G.726	G.711 / G.726
	Audio Detection Alarm	—	—	—	—	—
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)
	Password & Alter Detection	—	—	—	—	—
	Audio REC	Yes (ACC)	—	Yes (ACC)	—	—
External I/O		Yes (3) (*2)	Yes (3) (*3)	Yes (3) (*3)	Yes (3) (*4)	Yes (3) (*3)
Monitor Out		Yes (RCA)	—	Yes(RCA)	—	—
Vandal Resistant		50J, IK10	50J, IK10	—	20J, IK10	—
Water and Dust Resistance		IP66 / NEMA 4X	IP66 / NEMA 4X	—	—	—
Temperature		-40 to +50 deg.	-40 to +50 deg.	Ceiling / Wall / Mount bracket: -10 to +50 deg. Desktop / Tripod: -10 to +40 deg.	-10 to +50 deg.	-10 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		Yes	Yes	—	—	—
Other Functions		360° monitoring, EN50155-T3, EN50121, DIN5510	360° monitoring, EN50155-T3, EN50121, DIN5510, ECE-R10(WV-SW458MA)	360° monitoring	360° monitoring, Mechanical shutter	360° monitoring
Mounting Options		See pages 46, 47	See pages 46, 47			

(\*1): SW458: 10BASE-T/100BASE-TX, RJ45 connector, SW458MA: 10BASE-T/100BASE-TX, M12 connector (\*2): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each)

(\*3): Alarm In1, Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each) (\*4): Alarm In1(Priority action in), Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each)








CAMERA TYPE		BOX			
Appearance		 Onvif   WV-SPV781L 4K Engine	 Onvif   WV-SPW631LT HD1080P	 Onvif   WV-SPW631L HD1080P	 Onvif   WV-SPW611L HD720P
Sensor		1/1.7 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4	4
	JPEG multi stream	2	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes (GOP Only)	Yes	Yes	Yes
Max. Resolution	16 : 9	3840 x 2160	1920 x 1080	1920 x 1080	1280 x 720
	4 : 3	4000 x 3000	2048 x 1536 (*1)	2048 x 1536 (*1)	1280 x 960
Max. FPS @Max. Resolution	H.264	30fps (4K)	60fps (1080p)	60fps (1080p)	60fps (720p)
	JPEG	15fps (12 MP)	30fps (3 MP)	30fps (3 MP)	30fps (1.3 MP)
Super Dynamic / WDR / BLC		WDR	Enhanced SD	Enhanced SD	Enhanced SD
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		ABF	ABF	ABF	ABF
Min. Illumination	Color	0.3 lx @F1.6	0.06 lx @F1.6	0.04 lx @F1.3	0.01 lx @F1.3
	Color (Sens up)	0.02 lx (16x)	0.004 lx (16x)	0.003 lx (16x)	0.0007 lx (16x)
	B/W	0.0 lx @F1.6 (w/IR)	0.0 lx @F1.6(w/IR)	0.0 lx @F1.3(w/IR)	0.0 lx @F1.3(w/IR)
	B/W (Sens up)	—	—	—	—
Lens		f=4.2 to 25.2 mm, F1.6 Motorized	f= 9 to 22 mm, F1.6 Motorized	f= 2.8 to 10 mm, F1.3 Motorized	f= 2.8 to 10 mm, F1.3 Motorized
Angular field of view	16 : 9	H: 17 to 97 deg. V: 9.4 to 55 deg.	H: 13.8 to 33.5 deg. V: 7.7 to 18.1 deg.	H: 30.9 to 105.4 deg. V: 17.4 to 57.3 deg.	H: 28.4 to 96.2 deg. V: 16.1 to 52.8 deg.
	4 : 3	H: 18 to 101 deg. V: 13 to 76 deg.	H: 11.5 to 27.4 deg. V: 8.6 to 20.1 deg.	H: 25.8 to 86.4 deg. V: 19.3 to 63.9 deg.	H: 28.4 to 96.2 deg. V: 21.4 to 71.0 deg.
Adjusting Angle	Pan	—	—	—	—
	Tilt	—	—	—	—
Optical Zoom		6x	2.4x	3.6x	3.6x
Digital Zoom		4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		—	Yes (Type2)	Yes (Type2)	Yes (Type2)
VIQS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14
Audio	In [Line]	Yes	Yes	Yes	Yes
	In [Built-in MIC]	—	—	—	—
	Out	Yes	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC (*2)	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC
	Audio Detection Alarm	—	Yes	Yes	Yes
SD memory Card	Slot	Yes (SDXC)	Yes (SDXC x 2)	Yes (SDXC x 2)	Yes (SDXC x 2)
	Password & Alter Detection	—	Yes	Yes	Yes
	Audio REC	Yes	Yes (AAC)	Yes (AAC)	Yes (AAC)
External I/O		Yes (3) (*3)	Yes (3) (*4)	Yes (3) (*4)	Yes (3) (*4)
Monitor Out		Yes (RCA)	Yes (RCA)	Yes (RCA)	Yes (RCA)
Vandal Resistant		20J, IK10	—	—	—
Water and Dust Resistance		IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature		-45 to +50 deg.	-40 to +50 deg.	-40 to +50 deg.	-40 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		Yes	Yes	Yes	Yes
Other Functions		Built-in heater, Rain wash coating, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED
Mounting Options		See page 51	See page 51	See page 51	See page 51

(\*1): w/Super resolution (\*2): Only for SD REC (\*3): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out, Day/Night Out) (x1 for each) (\*4): Alarm In1(Day/Night In), Alarm In2(Alarm Out), Alarm In3(AUX Out) (x1 for each)



# COMPATIBILITY CHARTS

**Panasonic**

CAMERA TYPE		BOX				
Appearance		 ONVIF   GO VW-SPW611 HD720P	<b>NEW</b>  ONVIF   GO VW-SPW531AL HD1080P	<b>NEW</b>  ONVIF   GO VW-SPW311AL HD720P	 Lens not included ONVIF   GO VW-SPN631 HD1080P	 Lens not included ONVIF   GO VW-SPN611 HD720P
Sensor		1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
Codec and Transmission	Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
	H.264 multi stream	4	4	4	4	4
	JPEG multi stream	6 (Variable)	6 (Variable)	6 (Variable)	6 (Variable)	6 (Variable)
	Smart Coding	Yes	Yes	Yes	Yes	Yes
Max. Resolution	16 : 9	1280 x 720	1920 x 1080	1920 x 1080 (*1) / 1280 x 720	1920 x 1080	1280 x 720
	4 : 3	1280 x 960	2048 x 1536	1920 x 1080 (*1)	2048 x 1536 (*1)	1280 x 960
Max. FPS @Max. Resolution	H.264	60fps (720p)	60fps (1080p)	60fps (720p)	60fps (1080p)	60fps (720p)
	JPEG	30fps (1.3 MP)	30fps (3 MP)	30fps (1.3 MP)	30fps (3 MP) (*1)	30fps (1.3 MP)
Super Dynamic / WDR / BLC		Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Assist		ABF	ABF	ABF	ABF	ABF
Min. Illumination	Color	0.01 lx @F1.3	0.07 lx @F1.6	0.02 lx @F1.6	0.04 lx @F1.4	0.01 lx @F1.4
	Color (Sens up)	0.0007 lx (16x)	0.005 lx (16x)	0.005 lx (16x)	0.003 lx (16x)	0.0007 lx (16x)
	B/W	0.003 lx @F1.3	0.0 lx @F1.6(w/IR)	0.0 lx @F1.6(w/IR)	0.01 lx @F1.4	0.003 lx @F1.4
	B/W (Sens up)	0.0002 lx (16x)	—	—	0.0007 lx (16x)	0.0002 lx (16x)
Lens		f= 2.8 to 10 mm, F1.3 Motorized	f= 2.8 to 10 mm, F1.6	f= 2.8 to 10 mm, F1.6	CS Mount	CS Mount
Angular field of view	16 : 9	H: 28.4 to 96.2 deg. V: 16.1 to 52.8 deg.	H: 31 to 112 deg. V: 17 to 60 deg.	H: 28 to 102 deg. V: 16 to 55 deg.	—	—
	4 : 3	H: 28.4 to 96.2 deg. V: 21.4 to 71.0 deg.	H: 26 to 91 deg. V: 19 to 67 deg.	H: 28 to 102 deg. V: 21 to 74 deg.	—	—
Adjusting Angle	Pan	—	-180 to +180 deg.	-180 to +180 deg.	—	—
	Tilt	—	0 to +90 deg.	0 to +90 deg.	—	—
Optical Zoom		3.6x	3.6x	3.6x	—	—
Digital Zoom		4x	4x	4x	4x	4x
VMD (Video Motion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)	Yes (4-areas)
i-VMD (Intelligent VMD) (w/extension software)		Yes (Type2)	Yes (Type2)	Yes (Type2)	Yes (Type2)	Yes (Type2)
VIOS		Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)	Yes (8-areas)
Max. Connection		14	14	14	14	14
Audio	In (Line)	Yes	Yes	Yes	Yes	Yes
	In (Built-in MIC)	—	—	—	—	—
	Out	Yes	Yes	Yes	Yes	Yes
	Codec	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC	G.711 / G.726 / AAC
SD memory Card	Audio Detection Alarm	Yes	Yes	Yes	Yes	Yes
	Slot	Yes (SDXC x 2)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC x 2)	Yes (SDXC x 2)
	Password & Alter Detection	Yes	Yes	Yes	Yes	Yes
	Audio REC	Yes (AAC)	Yes (AAC)	Yes (AAC)	Yes (AAC)	Yes (AAC)
External I/O		Yes (3) (*4)	Yes (3) (*2)	Yes (3) (*2)	Yes (3) (*2)	Yes (3) (*2)
Monitor Out		Yes (RCA)	Yes (RCA)	Yes (RCA)	Yes (RCA)	Yes (RCA)
Vandal Resistant		—	—	—	—	—
Water and Dust Resistance		IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	—	—
Temperature		-40 to +50 deg.	-40 to +50 deg.	-40 to +50 deg.	-10 to +50 deg.	-10 to +50 deg.
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Dehumidification device		Yes	Yes	Yes	—	—
Other Functions		Built-in heater	Built-in IR LED	Built-in IR LED	Optional Extension Unit	Optional Extension Unit
Mounting Options		See page 51	See page 51	See page 51	See page 51	See page 51

(\*1): with Simple Full-HD mode (restrictive name) (\*2): Alarm In 1 (Day/Night In, Auto time adjustment), Alarm In 2 (Alarm Out), Alarm In 3 (AIK Out) (x1 for each)



### SIP & Analog LED Strobe Lights

- High performance LED strobe light with 16 selectable flash/intensity patterns for alerting and notification of telephone, safety, emergency and security events (OSHA)
- Ideal in high noise or noise sensitive environments • 8 LED's, 643 Lumens, 198 Candela. ADA compliant
- 360 x 180 degree visibility from wall or ceiling mount
- Auto-multicast capability permits scaling solution over large workplace areas, buildings or sites. Lights can be configured to flash in unison • Interoperable with all Algo SIP speakers • Weather resistant
- SIP model PoE. Analog model includes 24V power supply

#### BADGER PART NUMBER:

<b>8128</b>	SIP LED Strobe Light (clear)	<b>1128</b>	Analog LED Strobe Light (clear)
<b>8128A/B/R</b>	(amber, blue, red)	<b>1128A/B/R</b>	(amber, blue, red)
<b>8128ABR</b>	(kit, all colors)	<b>1128ABR</b>	(kit, all colors)



8128

8128A/B/R

### Visual Alerter

- Highly visible LED light for event or status notification
- Activated by dry contact closure or audio input; inter-operable with the 8180 SIP Audio Alerter and 1825PM Duet Plus.
- Four selectable flash patterns (pulsating, dancing, steady, flash) provide gentle or strong visual alerting from 18 LEDs
- Popular applications included telephone in-use, ringing, and message waiting.
- 24V power supply included

#### BADGER PART NUMBER:

<b>1127PB/G/R</b>	Visual Alerter (blue, green, red)
-------------------	-----------------------------------



1127PB

1127PG

1127PR

### Doorphones

- Algo outdoor rated intercoms connect to any business telephone system and enhance visitor communication and access control through secured door / gate entrances
- A separate Controller (3226/3228/3228) connects via single pair wiring to the full duplex digital Door Station, thereby securing the doorphone and preventing tampering of door unlock relay
- Suitable for indoor or outdoor environments in commercial or residential applications
- Integrated door opening control relay operated from telephone key pad
- Door Station can flush mount into a standard dual gang box or surface mounted with enclosed bezel

#### BADGER PART NUMBER:

<b>3226</b>	FXO Trunk Port Doorphone
<b>3228</b>	FXS Station Port Doorphone
<b>8028</b>	SIP Doorphone
<b>8201</b>	SIP PoE Intercom



8201

3226/3228/8028

### SIP Video Intercoms - PoE

- 8036 features customizable, sunlight viewable 5.7"VGA color capacitive touch display
- 8039 offers wide-angle 187 degree video, and narrow footprint to fit a mullion door frame
- Wideband G.722 audio supported in both intercoms
- SIP PoE endpoints integrate telephones, soft clients, or mobile devices
- Built-in camera supports H.264 video, viewable through a telephone or web browser
- Secure door/gate management with the 8061 IP Relay Controller

#### BADGER PART NUMBER:

<b>8036</b>	SIP Multimedia Intercom
<b>8039</b>	SIP Video Intercom



8039

8036

### IP Relay Controller - PoE

- Door opening controller for 8036 SIP Multimedia Intercom
- SIP interface module for up to four 1202 Call Buttons
- Programmable via web interface

#### BADGER PART NUMBER:

<b>8061</b>	IP Relay Controller
-------------	---------------------



8061



**SIP Audio Alerter, Ceiling & Horn Speakers - PoE**

- IP speakers for voice paging, loud ringing, and notification • Wideband G.722 HD voice supported
- Dual SIP registration, PoE, easy web interface management, and auto-multicasting features make Algo SIP speakers simple to deploy and manage on any hosted or premise VoIP communication server
- For loud ringing, one SIP extension may be paired with a phone or added to a hunt group
- For paging, a second SIP extension auto-answers allowing the user to announce over the speaker
- Deploy just one speaker or leverage simultaneous multicast with many speakers for scalability to meet any size workplace, campus or network
- The built-in microphone enables talk-back and monitors ambient noise to automatically adjust volume in response to changing noise levels

**BADGER PART NUMBER:**

<b>8180</b>	SIP Audio Alerter
<b>8186</b>	SIP Horn Speaker, weatherproof
<b>8188</b>	SIP Ceiling Speaker



8180



8186



8188

**Duet Plus**

- Provides effective and economical loud ringing and voice paging for small business/office areas
- Connects to any analog phone line for loud ringing and supports wet paging via an Avaya IP Office FXS port
- Dry contact or FXS port activation of a low frequency warble tone
- Optional Algo 1186 Horn Speaker can be used in wet/outdoor environments or where additional volume is required in high noise or wide area applications
- 24V power supply and 1201 modular cord included

**BADGER PART NUMBER:**

<b>1825PM</b>	Duet Plus, power supply & 1201 Cord
---------------	-------------------------------------



1825

**Weatherproof Speaker**

- 8 Ohm horn speaker is suitable for wet or outdoor environments
- Offers excellent sound quality for loud ringing, notification or voice paging
- Significantly increases output level for noisy locations or large wide area workplaces such as a warehouse or plant
- Compatible with Algo 8180 SIP Audio Alerter and 1825PM Duet Plus

**BADGER PART NUMBER:**

<b>1186</b>	Horn Speaker 50W, Weatherproof
-------------	--------------------------------



1186

**Paging Adapters & Bell Scheduler/Controller – PoE**

- SIP endpoint devices supporting wideband G.722 HD voice
- Paging Adapters provide automatic level control and offer an isolated & balanced line output without hum or noise
- Web configurable bell scheduling, automated announcements, endpoint management & music streaming
- Multicast enabled to integrate any Algo IP speaker &/or strobe

**BADGER PART NUMBER:**

<b>8300</b>	Controller
<b>8301</b>	Paging Adapter & Scheduler
<b>8373</b>	Zone Paging Adapter (3 zones)



8300



8301/8373

**Customer/Emergency Assistance Button**

- Designed to bring attention to events through telephone call notification, audible and visual alerts, and overhead announcements.
- The highly visible and intuitive 1202 Call Button integrates directly with the 8188 SIP Ceiling Speaker, 8186 SIP Horn Speaker, 8301 Paging Adapter & Scheduler, and 8061 IP Relay Controller.
- Illuminated push button flashes when activated; PoE powered.

**BADGER PART NUMBER:**

<b>1202</b>	Customer/Emergency Assistance Button
-------------	--------------------------------------



1202





# ONLINE STORE we've got you covered

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\*for all orders that qualify for standard ground shipping. some exclusions apply.

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The Badger Communications team is available Monday-Friday 8am-4:30pm.

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Save time and headache on your next install by having the Badger team pre-program your next Avaya system.



## TRAINING

Choose our introductory classes to refresh or take your first steps into the world of Avaya and IP Office.

You can even sell an IP Office and program it during training at Badger.



Channel Vision Central features modular structured wiring systems and components are easy to install and upgrade.

Each component can be effortlessly snapped into place inside a panel. Our packaged solutions simplify your system design and offer installers flexible options to fit any specifications.

## C-0020

### Home Network Packaged Solution

- The Home Network Package provides Telephone Distribution of 4 lines to 8 locations, Video Distribution to 8 locations, Network Hub and 5 port Ethernet Hub.
- Includes 19" Enclosure with Cover
- C-0020 includes C-0119, C-0208, C-0432, C-0515
- Does Not Contain Wires

#### BADGER PART NUMBER:

C-0020

## C-0021

### Expandable Packaged Solution

- This system is expandable, more lines or locations can be added with additional modules
- Includes 19" enclosure with cover
- C-0021 includes a C-0119, C-0208, and C-0432
- Does not contain wires

#### BADGER PART NUMBER:

C-0021



C-0020 Shown Wired

(Cover Not Shown - Wires Not Included)

## C-0030

### Premier Home Packaged Solution

- Provides Telephone Distribution of 4 lines to 8 locations, Video Distribution to 8 locations, Bi-Directional Cable Modem, additional 4 Telephone Lines for DSL or Fax, Computer Network Hub, 5 port Ethernet Hub, Speaker Distributor to 8 locations and IR Capability
- Includes 38" Enclosure with Cover
- Includes C-0138, C-0208, C-0215, C-0432, C-0508, C-0515, C-1001, C-1201
- Does Not Contain Wires

#### BADGER PART NUMBER:

C-0030



C-0030 Shown Wired

(Cover Not Shown - Wires Not Included)

## C-0010, C-0011

### Basic Panel Packaged Solution

- The Basic Package provides homeowners with Telephone Distribution of 4 lines to 6 locations and Video Distribution to 4 locations. Also included is a 12" Enclosure with Lid.
- C-0010 includes a C-0112 and C-0214 (RJ-45 Version)
- C-0011 includes a C-0112 and C-0216 (110 Version)
- Does Not Contain Wires

#### BADGER PART NUMBER:

C-0010 RJ45 Version

C-0011 110 Version



C-0010 Shown Wired

(Cover Not Shown - Wires Not Included)

## C-0026

### Standard Home Packaged Solution

- Provides Telephone Distribution of 4 lines to 8 locations, Amplified Video Distribution to 8 locations, and power cord management
- Includes 28" Enclosure with Cover
- Includes C-0128, C-0208, C-0310, C-0436, C-0702
- Does Not Contain Wires

#### BADGER PART NUMBER:

C-0026



C-0026 Shown Wired

(Cover Not Shown - Wires Not Included)

## C-0050

### Ultimate Home Packaged Solution

- Provides Telephone Distribution of 4 lines to 8 locations, Amplified Splitter/Combiner with Bi-Directional and Long Distance (100 ft) Capabilities for Video Distribution to 8 locations
- Additional 4 Telephone Lines for DSL/Fax, Computer Network Hub, 8 port Ethernet hub
- Includes 50" Enclosure with Cover
- Includes C-0150, C-0215, C-0329, C-0432, C-0508, C-0518
- Does Not Contain Wires

#### BADGER PART NUMBER:

C-0050



C-0050 Shown Wired

(Cover Not Shown - Wires Not Included)

# CENTRAL - ENCLOSURES - EMPTY PANELS

## Designer Hinged Doors

- Attractive alternative to the standard white sheet metal covers typically used on structured wire enclosures
- Light weight and easy to install
- Hinges from either left or right side
- Cooling Vents in top and bottom

#### BADGER PART NUMBER:

C-0128D For C-0128E Enclosure

C-0138D For C-0138E Enclosure

C-0150D For C-0150E Enclosure

C-1322 Optional Fan Kit For Increased Circulation



C-0150D

## C-0138HC

### 38" Metal Hinged Cover for C-0138E

#### BADGER PART NUMBER:

C-0138HC



C-0138HC



## Empty Panels

Channel Vision Central Enclosures are designed to make installations quick and easy with simple push-and-lock modular components, wire management straps, and electrical knockout. Sizes range from 12" (perfect for MDUs) to 50" for large custom homes.

- Modular Push and Lock product components • UL Approved
- Electrical Gang Box Knockout with grounding screw
- Sturdy 16 gauge Steel Construction
- Powder-Coated White Paint
- Oversized Front Cover with louvered vents
- Wire Management Straps
- Large Cable Knockouts
- Includes screws, grommets, cable identifiers, and cardboard rough-in cable protector

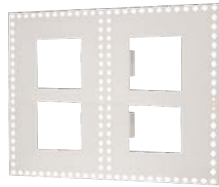


C-0119E and C-0119C

### C-1321

#### Hinged Expansion Plate

- Sturdy steel construction
- Creates a second grid layer in the enclosure
- For use with the C1351 extension ring only (use up to 3)
- Adds more grid space to a 50" enclosure for a total of up to 100"



C-1321

#### BADGER PART NUMBER:

C-1321

### Extension Rings

- Extends depth of enclosures allowing extra large equipment to mount inside
- Compatible with the C-1350 lock kit

#### BADGER PART NUMBER:

C-1351 Extension ring fits the C-0150 50" enc

### C-1327

#### Universal Mounting Plate

- Works with any printed circuit board up to 5.75" H x 10" W
- Allows third-party PCBs to mount in a structured wire enclosure



C-1327

#### BADGER PART NUMBER:

C-1327

## Empty Panels - Enclosures Only

#### BADGER PART NUMBER:

C-0112E	12" L x 14" W x 3-5/8" D
C-0119E	19" L x 14" W x 3-5/8" D
C-0128E	28" L x 14" W x 3-5/8" D
C-0138E	38" L x 14" W x 3-5/8" D
C-0150E	50" L x 14" W x 3-5/8" D



## Empty Panel - Covers

#### BADGER PART NUMBER:

C-0112C	Cover for C-0112E
C-0119C	Cover for C-0119E
C-0128HC	Hinged Cover for C-0128E
C-0138HC	Hinged Cover for C-0138E
C-0150HC	Hinged Cover for C-0128E

## Empty Panel - Mounting Brackets

#### BADGER PART NUMBER:

C-0308	12" W x 5-1/2" H horizontal bracket
C-0309	6" W x 9" H vertical bracket
C-1311	Fits products up to 4-3/4" W x 3-1/4" H universal product holder
C-1312	Fits products up to 11-1/4" W x 3-1/4" H universal product holder



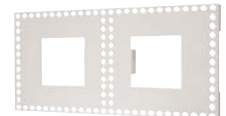
C-0308

### C-1320

#### Grid Lifting Wire Management Module

#### BADGER PART NUMBER:

C-1320 C-1320



### C-1312

#### Universal Product Holder

- Fits products up to 11.25" (L) x 3.25" (H)

#### BADGER PART NUMBER:

C-1312 C-1312



## CENTRAL - PASSIVE RF PRODUCTS

### C-0202

#### 1 in-2 out RF Splitter

- Bandwidth: 5-1000 MHz • Insertion: Loss 3.5dB max.
- Isolation: 34dB min. • Return loss: 30dB
- Impedance: 75 Ohm • Passes DC and passes IR on all ports

#### BADGER PART NUMBER:

C-0202



C-0202

### C-0208

#### 1 in-8 out RF Splitter

- Bandwidth: 5-1000 MHz • Insertion Loss: 11.0dB max.
- Isolation: 20dB min. • Return loss: 20dB
- Impedance: 75 Ohm
- Passes DC and passes IR on all ports

#### BADGER PART NUMBER:

C-0208

C-0208





## C-0204

### 1 in-4 out RF Splitter

- Bandwidth: 5-1000 MHz • Insertion Loss: 7.0dB max.
- Isolation: 28dB min. • Return loss: 24dB
- Impedance: 75 Ohm • Passes DC and passes IR on all ports

**BADGER PART NUMBER:**

**C-0204**



C-0204

## C-0213

### F-Barrel Connecting Termination

- Band Pass Frequency: 5-2GHz
- RF Loss Input to Port: .5 • Voltage Attenuation: 0

**BADGER PART NUMBER:**

**C-0213**



C-0213

## C-0215

### Home Office Module

- 2-Way RF Cable Modem and 4 110/RJ45s data, phone, fax
- Option of 4 CO Lines, 1 Data up to 4 fax lines, DSL, LAN
- 110 Terminal Inputs, Vertical RJ-45 Outputs
- Passes DC, IR
- CAT 5e Compatible
- RF Input 5-1000 MHz, 130dB RFI

**BADGER PART NUMBER:**

**C-0215**



C-0215

Channel Vision passive RF splitters are used in homes where no additional RF signal amplification is needed. Our passive RF and telephony products allow the installer to efficiently distribute television signals and phones lines throughout the house.

## C-0437

### RJ-45 Telephone Distribution Module w/Security RJ-31X

- RJ-45 connection • RJ-31X switch for security panel interface
- 4 CO line input distributed to 12 rooms
- Vertical RJ-45 input/output capability, Cat5E compatible, TIA/EIA-568A and TIA 570 compliant

**BADGER PART NUMBER:**

**C-0437**



C-0437

## C-0438

### Telephone Distribution Module

- Distributes 4 CO lines to 7 locations
- 8 Bridged 110 punchdown connectors

**BADGER PART NUMBER:**

**C-0438**



C-0438

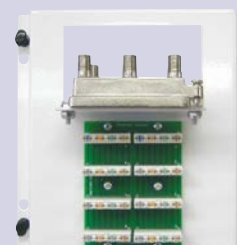
## C-0227

### Phone & TV Distribution Module

- RF Insertion loss: 11.5 dB (typical)
- RF Bandwidth: 5-1000MHz
- RF inputs: 1 (DC passing)
- RF outputs: 8 (DC passing)
- 110 connectors: 8 (all bridged)
- Dimensions: 6.50" L x 6.38" W x 2.83" D

**BADGER PART NUMBER:**

**C-0227**



C-0227

## C-0219

### Telephone/Video Combination Module

- Distributes 4 CO Lines to 15 locations
- 16 Bridged 110 Punchdown Connectors
- Includes 4-Way RF Splitter (DC passing)
- RF Input 5-1000 MHz, 130dB RFI
- Passes DC, IR

**BADGER PART NUMBER:**

**C-0219**



C-0219

# CENTRAL - AMPLIFIED RF PRODUCTS

## Modulators

- Professionally engineered modulators at an economical price
- Convert 1, 2, 3, or 4 A/V sources to TV channels
- Digital display and up/down buttons for easy setup
- Digital drift-free performance
- Built-In Coax IR System

**BADGER PART NUMBER:**

**E2200IR** 2 Input Modulator

**E3200IR** 3 Input Modulator

**E4200IR** 4 Input Modulator



E-IR SERIES

## C-0301

### 1 Input Modulator with Bracket

- 25dB mV Output
- Wide Channel Range Cable, 65-135 (excl. 95-99)
- Off air UHF: 14-78
- Push Button Channel Selector
- Non-Volatile Memory
- Video Input Level Adjustment

**BADGER PART NUMBER:**

**C-0301**



C-0301



### 2, 3 and 4 Input Modulators with Bracket

- 25dB mV Output
- Wide Channel Range Cable 65-135 (excl. 95-99) • UHF 14-78
- Push Button Channel Selector • Non-Volatile Memory
- LED Channel Display • Video Input Level Adjustment

**BADGER PART NUMBER:**

- C-0352** 2 Input Modulator with Bracket  
**C-0353** 3 Input Modulator with Bracket  
**C-0354** 4 Input Modulator with Bracket



C-0353

### C-0314

#### 1in-4out Amplified Splitter

- 8dB Signal Gain per Output • 5-42 MHz Return Path for interactive TV
- IR Passing on all Output Ports, Bi-Directional
- 54-1000 MHz Forward Path • UL and CSA Approved

**BADGER PART NUMBER:**

**C-0314**



C-0314

### C-0333

#### Multimedia Cable Amplifier for Wideband CATV Systems

- 8 Amplified outputs: 4.5dB gain
- Amplified return path from 5-42MHz
- Advanced bandwidth 5-1550MHz
- Supports one (1) modulator input & (1) CATV input
- Allows IR pass through on the modulator input port

**BADGER PART NUMBER:**

**C-0333**



C-0333

### C-0310

#### 1in-1out 10dB Amplifier, DC Passing for Remote Power

- Bi-Directional
- 5-42 MHz Return Path for interactive TV
- 54-1000 MHz Forward Path • UL and CSA Approved
- Phantom Power from anywhere using an injector (CVT-PI)

**BADGER PART NUMBER:**

**C-0310**



C-0310

### C-0317

#### Multimedia Cable Amplifier for Wideband CATV Systems

- HDTV high definition digital amplifier
- 15dB power injected inline amplifier
- 6KV IEEE surge protection for superior durability
- Lowest noise figure (3dB)
- Wide band amplification 5-1525MHz
- Bi-directional return path 5-42MHz
- Cable TV band 54-1525MHz

**BADGER PART NUMBER:**

**C-0317**



C-0317

### C-0332

#### 1in-16out RF Amplifier

- Unity Gain on all output ports
- 1 GHz Broadband Amplification
- DC Passing • 1in-2out Amplifier • UL and CSA Approved
- Bi-Directional, 54-1000 MHz Forward, 5-42 MHz Return Path

**BADGER PART NUMBER:**

**C-0332**



C-0332

## CENTRAL - TELEPHONE PRODUCTS

### C-0410

#### Surge Protection Module

- Passes FCC Part 68 Type A and Type B lighting tests operationally
- Provides Un-balanced Line Over Voltage and Over Current Protection
- Auto Resets phone line once surge condition has cleared
- 4 lines In, 4 lines Out

**BADGER PART NUMBER:**

**C-0410**



C-0410

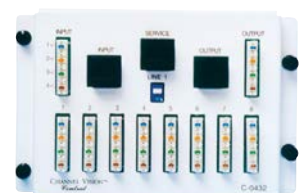
### C-0432

#### 110 Telecom Distribution Module with Security/Link

- Includes Security RJ31X
- 4 CO Line Input distributed to up to 8 rooms
- 110 or RJ45 Output Capability, CAT 5e compatible, TIA/EIA-568A and TIA 570 compliant
- Expandable to multiple units

**BADGER PART NUMBER:**

**C-0432**



C-0432



## C-0434

### KSU Phone Distribution Module

(compatible w/Panasonic KX-TA624 and other systems)

- Up to 8 CO Lines distributed to up to 10 rooms
- Supports 4 Door Stations (KX-A62460 modules required)
- RJ31X Functionality (CO line one) for security system interface
- All 8 CO lines have System Bypass for cases where system interfacing is not desired (i.e. fax/modem)
- Expandable using optional components (available separately)

**BADGER PART NUMBER:**

**C-0434**



C-0434

## C-0436

### RJ45 Telecom Distribution Module w/Security RJ31X

- 4 CO Line Input distributed to up to 8 rooms
- Vertical RJ45 Input/Output Capability, CAT 5e compatible
- TIA/EIA-568A and TIA 570 compliant

**BADGER PART NUMBER:**

**C-0436**



C-0436

## C-0438

### Telephone Distribution Module

- Distributes 4 CO Lines to 7 locations
- 8 Bridged 110 Punchdown Connectors
- CAT5 compatible, TIA/EIA/EIA-568A and TIA 570 compliant

**BADGER PART NUMBER:**

**C-0438**



C-0438

## C-0439

### Telephone Distribution Module

- Distributes 4 CO Lines to 15 locations
- 16 Bridged 110 Punchdown Connectors
- CAT5 compatible, TIA/EIA/EIA-568A and TIA 570 compliant

**BADGER PART NUMBER:**

**C-0439**



C-0439

## C-0497

### Amphenol to RJ-14 Converter

- Converts style connectors. Back of module snaps onto C-0434. Module has RJ-11/14 jacks on the front.

**BADGER PART NUMBER:**

**C-0497**



C-0497

## C-0498

### Prewired Octopus Cable

- Pre-wired Amphenol snaps onto C-0434. Module has RJ-11/14 jacks on the front.

**BADGER PART NUMBER:**

**C-0498**



C-0498

## C-0499

### KSU Expansion PCB

- Optional Expansion Hub adds 8 locations and 2 CO lines

**BADGER PART NUMBER:**

**C-0499**



C-0499

## P-0411

### ADSL Filter/Phone Surge Module

- 4 lines in and 4 lines out • Active line LED indicators
- 110 and RJ-45 inputs and outputs
- RJ-31x security system connection
- Automatically resets itself after surge • DSL filter built-in
- Complies with UL 1459 and UL 1950 power cross requirements
- Passes FCC Part 68 Type A and B

**BADGER PART NUMBER:**

**P-0411**



P-0411

# CENTRAL - DATA PRODUCTS

## C-0538

### 8-port CAT5/6 Data Patch Panel

- Eight 110 punch down and eight RJ-45 connections
- Ideal for high-bandwidth streaming
- Compatible with Category 5, 5e, and 6 wiring
- Compliant with 1000BASE-T specifications

**BADGER PART NUMBER:**

**C-0538**



C-0538

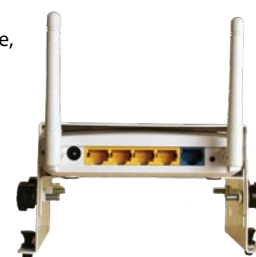
## C-0526

### 4-port Wireless Router

- High Speed Wireless N Connectivity that connects Wi-Fi devices at transfer speeds of up to 300Mbps
- Supports up to 4 multiple SSIDs for separate home, work, and guest access
- Advanced Security protects the wireless network with WPA/WPA2 encryption and SPI firewall
- Mounting bracket for easy installation onto enclosure

**BADGER PART NUMBER:**

**C-0526**



C-0526



### C-0532

#### Data/Patch Module Kit

- Space Saving Design Kit allows wires to run length of panel for better wire management
- Kit Includes (1) double decker mounting plate, (2) 8x8 network hubs, and (1) 8-port switch

#### BADGER PART NUMBER:

**C-0532** Data/Patch Module Kit

**C-0530** Double Decker Mounting Plate (1)

**C-0538** 8x8 Network Hub (2)

**C-0519** 8-Port Switch (1)



C-0532

### C-0519

#### 8-Port 10/100 Mbps Switch

- Conforms to IEEE 802.3, 802.3u, and 802.3x Ethernet Standards
- Auto-sensing 10/100Base-TX RJ45 port ports
- Automatic MDI/MDIX crossover for each 10/100Base-TX port
- Mounting bracket for easy installation onto enclosure

#### BADGER PART NUMBER:

**C-0519**



C-0519

## CENTRAL - FIBER OPTICS/POWER DISTRIBUTION

### C-0622

#### Fiber Optics Spool Plate with Cover

- Maintains the fiber optic bend radius and allows cable termination within the panel
- SC coupler included

#### BADGER PART NUMBER:

**C-0622**



C-0622

## CENTRAL - SPEAKER/IR DISTRIBUTION PRODUCTS

### C-1001

#### Speaker Distribution 1 pair in x 8 pair out

- Single 2-Channel (L/R) Audio Input distributed to up to 8 rooms
- 4 Position Terminal Blocks, UL rated 125V @ 6A, accepts 14 to 20 AWG wire
- 45 Degree Wire Entry simplifies installation and holds wires securely
- Supports power levels to 200 watts
- (Requires impedance matching transformers on the vol controls)



C-1001

#### BADGER PART NUMBER:

**C-1001**

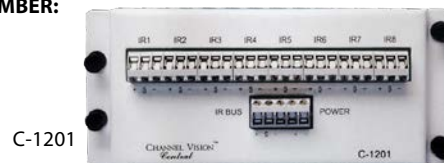
### C-1201

#### IR Distribution Module

- 8 IR Receivers into one common output • 3-wire input
- Combines multiple rooms to one connecting block

#### BADGER PART NUMBER:

**C-1201**



C-1201

### IR-5000

#### All-In-One Receiver

- Plasma-proof • Creates a one-room system
- Control devices behind cabinet doors
- Mounting accessories included
- Mini bullet hole • Tabletop mount



IR-5000

#### BADGER PART NUMBER:

**IR-5000**

### IR-4101

#### IR Coax Engine/IR Coax Adapter

- Creates an IR system with existing TV coax wiring
- Power 8 IR receivers with 1 power supply
- Quick and easy installation

#### BADGER PART NUMBER:

**IR-4101**



IR-4101

### IR-4000

#### IR Coax Engine/IR Coax Adapter

- Creates an IR system with existing TV coax wiring
- Power 8 IR receivers with 1 power supply
- Quick and easy installation



IR-4000

#### BADGER PART NUMBER:

**IR-4000**

### IR-2400

#### Remote Head IR-Receivers

- 2-Piece design, easy to conceal
- Plasma proof
- Optical and electronic filtering for interference



IR-2400

#### BADGER PART NUMBER:

**IR-2400**



## IR-2005

### TJ-Box-IR-Receiver

- Plasma-proof IR-receiver
- Receive signals from a hand-held remote control up to 40 ft. away
- Easily installed in a standard single gang box
- Includes decorator-style trim ring
- 3-wire screw connection
- Optical and electronic filtering
- IR frequency range: 30kHz - 60kHz



IR-2005

**BADGER PART NUMBER:**

**IR-2005**

## P-1205

### IR Distribution Hub

- Supplies power to standard IR receiver and IR signals to 4 emitter outputs (2 global, 2 zone specific)
- Multiple IR zones created with additional units
- Single power supply supports up to 16 receivers
- Mini-Plug and 3-wire connections for the receivers
- Maximum distance to emitters: 500 ft.
- 12 VDC
- IR Frequency range supported: 30 kHz - 60 kHz

**BADGER PART NUMBER:**

**P-1205**



IR-1205

## IR-3001

### Single IR Emitter

- Single Head IR Emitter

**BADGER PART NUMBER:**

**IR-3001**



IR-3001

## G-IRB-W

### IR Breakout Insert (White)

- 3.5mm plug for IR receivers or emitters
- Fits Channel Vision wall plates
- Also available in Ivory and Almond

**BADGER PART NUMBER:**

**G-IRB-W**



G-IRB-W

# ARIA - AUDIO

## IC504

### 5.25" In-Ceiling Speakers (1-Pair)

- 5.25" Woofer with polypropylene cone treated foam surround, 1" Voice Coil, 8 oz. magnet
- 13mm Tweeter with Mylar cone • Power handling: 80W • Spring Loaded Terminals
- Mounting Template and paint shield included • Small Perforated Designer Grille
- Use with IC52B Pre-construction bracket (hole size: 6.5" D) - sold separately
- Designed for Economical Installations that only require background music

**BADGER PART NUMBER:**

**IC504**



IC504

## IC608

### 6.5" In-Ceiling Speakers (1-Pair)

- 6.5" Woofer with polypropylene cone treated foam surround, 1" Voice Coil, 8 oz. magnet
- 13mm Tweeter with Mylar cone • Power handling: 120W • Spring Loaded Terminals
- Mounting Template and paint shield included • Small Perforated Designer Grille
- Use with IC65B Pre-construction bracket (hole: 7.5" D) - sold separately
- Designed for Economical Installations that only require background music

**BADGER PART NUMBER:**

**IC608**



IC608

## IC514

### 5.25" In-Ceiling Speakers (1-Pair)

- Pivoting Tweeter: 1" Voice Coil, enclosed, rare earth neodymium magnet, silk soft dome
- 5.25 Kevlar woofer with butyl rubber surround • Frequency response: 50 Hz-20 kHz +/- 3dB
- Recommended power: 20W - 100W • Sensitivity: 88dB(1W/1M)
- 8 Ohm nominal impedance • 14 AWG Gold Plated Terminal Posts
- Mounting Template and paint shield included • Small Perforated Designer Grille
- Use with IC52B Pre-construction bracket (hole size: 6.5" D) - sold separately
- Dimensions: 7.75" OD x 4.21" H • Retail packaging

**BADGER PART NUMBER:**

**IC514**



IC514



## IC614

### 6.5" In-Ceiling Speakers (1-Pair)

- Pivoting Tweeter: 1.25" Voice Coil, enclosed, rare earth neodymium magnet, silk soft dome
- Frequency response: 40 Hz-20kHz +/- 3dB • 6.5" Kevlar woofer with butyl rubber surround 24 oz
- Recommended power: 20W-160W (peak) • Sensitivity: 90dB(1W/1M)
- 14 AWG Gold Plated Terminal Posts • Small Perforated Designer Grillee
- Mounting Template and paint shield included

**BADGER PART NUMBER:**

**IC614**



IC614

## IC824

### 8" Dual Voice Coil In-Ceiling (Speakers Sold Separately)

- 8" Kevlar woofer with butyl rubber surround
- 1" soft dome neodymium pivoting tweeter
- Recommended power: 20W-200W (peak) • 15 degree angled speaker

**BADGER PART NUMBER:**

**IC824**



IC824 without and with grille

## OS-611

### 6.5" Marine/Outdoor Speaker (1-Pair)

Made with Polypropylene that has ultraviolet fade protection, this speaker will maintain its color even when used outdoors. Stainless steel and aluminum parts give you years of reliable rust-free sound.

- 6.5" Injected Polypropylene Woofer with Butyl rubber surround • 1" Fluid-cooled Silk Tweeter with 12 oz. magnet structure
- Frequency response: 60 Hz-20 kHz +/-3dB • 6 Ohm impedance • Recommended amplifier power: 10W to 150W
- Sensitivity: 90dB for 2.83V pink noise • All Stainless Steel Hardware • Aluminum Grillees (2) • Aluminum Brackets (2)
- Dimensions (includes brackets and knobs): 13" (H) x 9-7/8" (W) x 9" (D)

**BADGER PART NUMBER:**

**OS-611**



OS611

## A1260

### Multi-Zone Audio Amplifier

Designed to complement the A4601 Audio/Video Matrix, this high power, high quality amplifier offers reliable performance guaranteed to satisfy the most discerning audio and home theater enthusiasts. 60 Watts per channel. 12 channels of audio drive 6 zones of speakers. Perfect for whole-house audio applications.

**BADGER PART NUMBER:**

**A1260**



A1260

## A4603

### Audio/Video Pre-Amplifier Matrix

- 4 Sources to 6 zones
- 4 Common IR outputs; 6 keypad units
- Available as a 19" rack mount version (A4601R)
- This unit may be purchased separately or as part of a kit

**BADGER PART NUMBER:**

**A4603**



A4603

## A-Kit1

- Consists of: (1) A4603, (6) A0127 keypads and (1) A1260 amplifier

## A-Kit2

- Consists of: (1) A4603, (6) A0127 keypads, (6 pairs) IC614 speakers, and (1) A1260 amplifier



ARIA's 6.5" in-ceiling Soprano Series custom installation speakers. Engineered in the U.S., special attention has been given to developing the crossover network and high power handling capability to provide true stereo-quality sound, and not simply background music.

## IW614

### In-Wall Soprano Speakers

- 6.5" Kevlar woofer with butyl rubber surround and 20 oz magnet
- 1" soft dome neodymium pivoting tweeter
- Recommended power: 20W to 120W (peak)
- Small perforated designer grille

**BADGER PART NUMBER:**  
**IW614**



IW614

## LCR625

### 6.5" In-Wall Left-Center-Right Speakers

- Can be used as a center channel as well as a left/right channel
- 6.5" Dual Mica filled polypropylene Woofer with Butyl rubber
- 1.25" Voice Coil, 20 oz. magnet • 14 AWG gold plated Terminals
- 12dB per octave Passive Crossover
- Pivoting Tweeter: enclosed, neodymium magnet, soft dome
- Thermal-sensing Polymer Switches to prevent blown tweeter
- Recommended power: 20W-150W
- Sensitivity: 90dB (1W/1M)
- 8 Ohm Impedance
- Small Perforated Designer Grille
- Mounting Template and paint shield included
- Dimensions: 20.25" L x 8.89" W x 4.21" H
- Retail packaging

**BADGER PART NUMBER:**  
**LCR625**



LCR625

## A0127

### Modular Keypad

- Designed to control the A4601
- 3 conductor 22-28 awg or CAT 5 cabling
- Removable Connector for easy wiring installation
- Illuminating Status and IR Feedback Indicators
- Single gang box installation
- IR Receiver compatible with signals between 30-60kHz

**BADGER PART NUMBER:**

**A0127W** White  
**A0127IA** Ivory/Almond



A0127W

## VC-302

### In-Wall Volume Control with IR option

- Allows user to adjust volume of speakers from any room in house
- Peak power rating: 300 watts
- 14 gauge speaker "quick connect" terminals for fast and easy installations

**BADGER PART NUMBER:**

**VC-302** White



VC-302

## IW814

### In-Wall Soprano Speakers

- 8.5" Kevlar woofer with butyl rubber surround and 24 oz magnet
- 1" soft dome neodymium pivoting tweeter
- Recommended power: 20W to 120W (peak)
- Gold speaker wires • Small perforated designer grille
- Frequency response: 40Hz-20kHz ± 3dB
- Power handling: 160W • Sensitivity: 90dB (1W/1M)

**BADGER PART NUMBER:**  
**IW814**



IW814

## OS526

### 5.25 Outdoor Speaker

- 5.25" Long Extrusion Woofer with 20oz magnet
- 0.5" High Compliance Polymer Tweeter
- 18dB/octave Crossover Network
- Frequency response: 60Hz-20kHz± 3dB
- Power handling: 160W • Sensitivity: 90dB (1W/1M)
- 6 Ohm nominal impedance
- 14 AWG gold plated terminal posts
- Weather resistant design with UV protected cabinet to resist sun fade
- Aluminum grilles and brackets
- Dimensions: 10.63" H X 7.32" W x 6.30" D
- Retail packaging

**BADGER PART NUMBER:**  
**OS526**



OS526

## AB-124

### Single Source A-BUS® Amplified Key Pad

- Audio amplification to in-room speakers
- IR-receiver for control of external equipment
- Operable via remote control or local push-button
- Features blue backlit keypad and visual LED indicators for confirmation of IR, status and volume level
- Single-gang box with decorator faceplate installation

**BADGER PART NUMBER:**

**AB-124W** White  
**AB-124IA** Ivory/Almond



AB-124W

## AB-202

### Single Source A-BUS Distribution Module

- Single CAT5 output for audio distribution
- Single source Input
- Four IR Emitter Outputs and routing for control of external equipment
- Status and IR Feedback Indicators

**BADGER PART NUMBER:**

**AB-202**



AB-202



## AB-404

### Panel Distribution Module A-BUS

- Accepts source from AB-202 and distributes to 4 zones
- Provides power, status and IR distribution to all locations
- Output Connector for system expansion
- 110 Punch Down
- 24 VDC Power Supply Required (ABT-2454)



AB-404

**BADGER PART NUMBER:**  
**AB-404**

## AB-301W

### Universal Input Module

- Versatile Local Zone or Main Source Inputs
- (2) IR Emitter Outputs control external equipment
- Features both RJ-45 and 110 Connectors
- Fits in single gang box with decorator faceplate installation (plate not included)
- A-BUS local input module



AB-301W

**BADGER PART NUMBER:**

**AB-301W** White  
**AB-301IA** Ivory/Almond

## AB-315

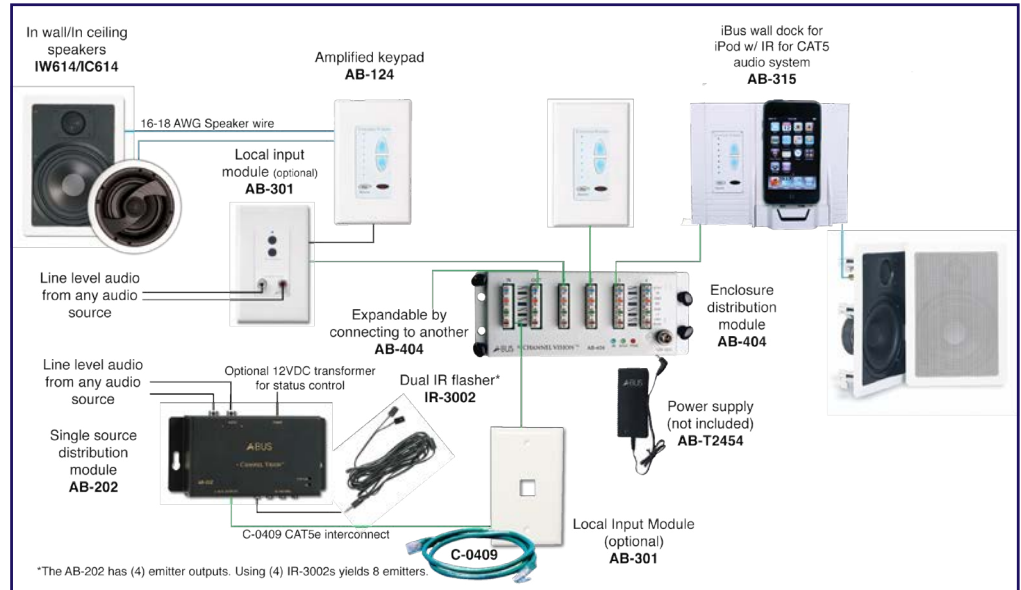
### iBus® Wall Dock for A-BUS

- Made for iPod®
- Compatible with all A-BUS systems
- Holds and charges all iPods (excluding shuffle)
- Senses audio to automatically override the main A-BUS source
- Fits in single gang-box
- With IR support

**BADGER PART NUMBER:**  
**AB-315**



AB-315



## P-1014

### 1 x 4 A-BUS® Distribution Module

Channel Vision's new Pro Series line is directed at the custom audio/video market where the platform is a standard 19" equipment rack, creating an efficient wire management system.

- RJ-45 and 110 Punch Down Connectors
- Local and System Audio Inputs with selectable priority
- Expansion to additional units
- 4 Common IR Emitter Outputs

**BADGER PART NUMBER:**  
**P-1014**



P-1014

## P-1400

### HDTV Zero-Loss Video Extender

Capable of distributing component video, S-video, and composite video signal. Ideal for sending high quality video to a home theater projector.

- Component Video
- S-Video
- Composite Video
- Shielded pair Aux Connection for: stereo audio, IR target or emitter, 12V trigger signals. Fits 1" conduit
- Pull loop included

**BADGER PART NUMBER:**  
**P-1400**



P-1400

## P-0925

### Paging Module

- Enables paging from a C-0920 or TE110 to speakers in your house
- Simple connections
- Quick and easy installation

**BADGER PART NUMBER:**  
**P-0925**



P-0925

## P-1044

### 4-Source/4-Zone A-BUS Audio Matrix

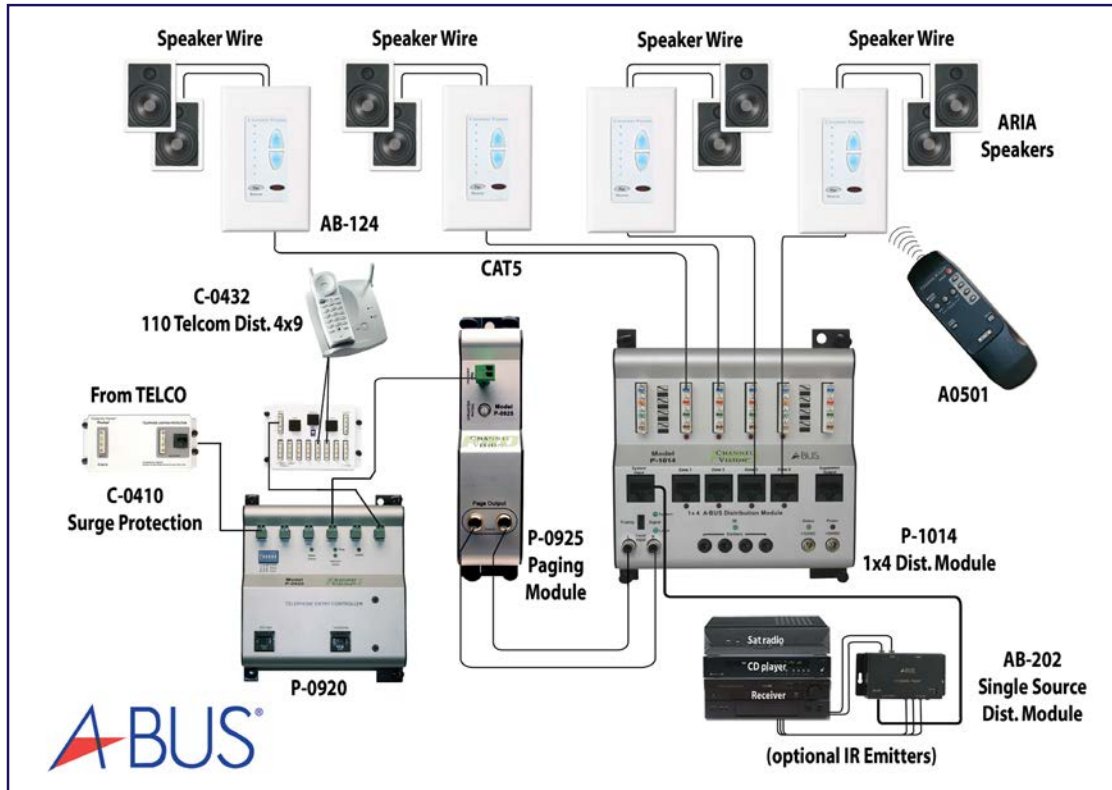
- Source specific IR-routing
- RJ-45 or RCA input connectors
- RJ-45 or 110 output connectors
- Any zone can select and listen to any source independently
- Easily expandable for additional zones
- AB-T2454 power transformer included

**BADGER PART NUMBER:**  
**P-1044**



P-1044





## TECHNOLOGY - SURVEILLANCE - CAMERAS

### 6404

#### WDR Hi-Res Mini-Pinhole Camera

- 1/3" Sony Super HAD CCD
- 560 Line Resolution
- 0.2 Lux, F2.0 • 5.5mm Lens
- Ultra compact design (25mm x 25mm)
- Power supply/mount included

**BADGER PART NUMBER:**

**6404**



6404

### 6403

#### Color Mini-Pinhole Camera

- 1/3" Sony Super HAD CCD
- 550 Line Resolution
- 0.2 lux, F2.0 • 5.5 mm lens
- Ultra compact (30mm x 30mm)
- Power supply/mount included

**BADGER PART NUMBER:**

**6403**



6010

### 6010

#### Color Bullet Camera with VariFocal Zoom Lens

- 1/3" DSP Sharp color CCD • 420 lines of Resolution • 0.5 lux at F2.0 (standard)
- 4-9mm Varifocal Manual Zoom at F1.6-F2.4 • Weatherproof • Uses 12VDC power, 90mA regulated

**BADGER PART NUMBER:**

**6010**



### 6200/6204

#### Color Single Gang Box Camera

- 6200 Color camera inside • 6204 WDR hi-Res camera inside • Adjustable mount
- Fits into standard gang box • Clear acrylic with white decorative cover

**BADGER PART NUMBER:**

<b>6200-212</b>	White	<b>6204-212</b>	White
<b>6200-282</b>	Satin Black	<b>6204-282</b>	Black
<b>6200-222</b>	Polished Brass	<b>6204-222</b>	Polished Brass
<b>6200-232</b>	Antiqued Brass	<b>6204-232</b>	Antique Brass
<b>6200-242</b>	Chrome	<b>6204-242</b>	Chrome
<b>6200-252</b>	Oil Rubbed Bronze	<b>6204-252</b>	Oil Rubbed Bronze
<b>6200-302</b>	Satin Nickel	<b>6204-302</b>	Satin Nickel





## 6026

### Outdoor Bullet Camera

- 540 lines of resolution • 3.6mm lens
- 0.02 Lux, F1.2 (before IR activated)
- Waterproof camera - suitable for outside use
- 24 IR-LED's for night viewing up to 60'
- 3 axis adjustable camera mount • Black

#### BADGER PART NUMBER:

6026



6026

## 6127

### Vandal Proof IR Color Dome Camera

- High quality 1/3" Sony Hi-Res Super HAD CCD sensor
- 700 TV line of resolution
- 24 piece LED IR illuminator with built-in light sensor
- View images 66 feet away in total darkness
- Automatic Gain Control (AGC) and Auto White Balance (AWB)
- Vandal-proof

#### BADGER PART NUMBER:

6127



6127

## 6524-W

### 1.3 Megapixel Flush Mount IP Camera

- 1.3 megapixel CMOS sensor
- H.264 compression, MJPEG and MPEG4 codecs
- Event triggered micro SD card recording
- POE Supported
- Flush mount design blends into most settings
- Double Gang box included • Tinted faceplate included

#### BADGER PART NUMBER:

6524-W



6524-W

## 6710

### PTZ Camera – 12x Optical Zoom

- 12x optical zoom, 360° pan, 90° tilt
- 560 television lines
- IP 66 rated for outdoor use
- Up to 255 selectable camera IDs
- Right angle wall mount bracket included (as shown)

#### BADGER PART NUMBER:

6710



6710

## 6721

### PTZ Camera – 27x Optical Zoom

- 27x optical zoom, 360° pan, 90° tilt
- 550 television lines • IP 66 rated for outdoor use
- Up to 255 selectable camera IDs
- Right angle wall mount bracket included (as shown)

#### BADGER PART NUMBER:

6721



6721

## DVR-43GKIT2

### DVR Kit with Outdoor Cameras

- Windows and Mac Compatible
- H.264 for DVR recording and web compression
- 3G mobile phone monitoring supports iPhone®, Blackberry®, and Windows®
- 540 TV lines of resolution

#### BADGER PART NUMBER:

DVR-43GKIT2



DVR-43GKIT2

## 6126

### Infrared IR Illuminated Color Dome Camera

- High quality 1/3" Hi-Res CCD sensor
- 540 TV lines of resolution
- 24 piece LED IR illuminator with built-in light sensor
- View images 60 feet away in total darkness
- Automatic Gain Control (AGC) and Auto White Balance (AWB)

#### BADGER PART NUMBER:

6126 White  
6126B Black



6126

## 6531

### 1.3 Megapixel Indoor Dome IP Camera with IR

- 1.3 megapixel CMOS sensor
- H.264 compression, MJPEG and MPEG4 codecs
- Event triggered micro SD card recording
- Built-In IR for a viewing distance of 15ft in total darkness

#### BADGER PART NUMBER:

6531



6531

## W-4001

### 4-Channel Web Camera Server

- H.264/ MJPEG compression formats
- RS-232 Interface • SD Card backup
- Wireless network connection (802.11 b/g) – Optional
- 2-way audio • 4 video input
- 4 alarm input • 4 relay out

#### BADGER PART NUMBER:

W-4001



W-4001

## DVR-43GKIT1

### Hidden DVR Kit For DVR-43G

- 500GB hard Disk • 4 Channel 3G DVR – DVR-43G
- IR control system • Mounting brackets
- 19" structured wiring enclosure
- 4-channel camera recording capability
- H.264 compression to maximize hard drive space
- 1-channel audio recording and playback
- 3G compatibility for easy viewing on your smart phone (iPhone, Blackberry, Windows Mobile, Nokia)
- Ethernet connection for easy networking
- IR control capability • PTZ camera control
- Central Management System (CMS) for viewing multiple DVR's

#### BADGER PART NUMBER:

DVR-43GKIT1



DVR-43GKIT1

## DVR-43GKIT3

### DVR Kit with Indoor Cameras

- Windows and Mac Compatible
- H.264 for DVR recording and web compression
- 3G mobile phone monitoring supports iPhone, Blackberry, and Windows
- 540 TV lines of resolution

#### BADGER PART NUMBER:

DVR-43GKIT3



DVR-43GKIT3



## 6521

### IP Dome Camera

- High definition 720P @30 FPS
- HDTV 2-megapixel CMOS sensor
- 18 IR LED, 50' viewing distance in total darkness
- 3-axis bracket adjustment

**BADGER PART NUMBER:**  
**6521**



6521

## 6522

### IP Dome Camera

- High Definition 720P@30FPS
- HDTV 2-megapixel CMOS sensor
- Varifocal lens with built-in 35 IR LED
- View images 60 feet away in total darkness

**BADGER PART NUMBER:**  
**6522**



6522 with Mount

# TECHNOLOGY - SURVEILLANCE

## DVR-HDS500

### 500 Gigabyte Hard Drive

- For use with Channel Vision DVRs

**BADGER PART NUMBER:**  
**DVR-HDS500**



DVR-HDS500

## DVR-HDS1000

### 1000 Gigabyte Hard Drive

- For use with Channel Vision DVRs

**BADGER PART NUMBER:**  
**DVR-HDS1000**



DVR-HDS1000

## W-1001

### Web Camera (1 Video Channel)

- 1CH input • De-interlace function
- H.264 / MJPEG / MPEG4 compression
- SD card backup • 2-way audio • Motion detection (optional)
- Support cell phone / PDA / 3GPP • Triple Streaming
- Simultaneously connect up to 10 users
- Free bundle 36-channel recording software

**BADGER PART NUMBER:**  
**W-1001**



W-1001

## B-300

### Video Balun Kit

- Enables user to distribute video signals and camera power easily via a single Cat5 wire
- Includes both transmit and receive units
- Sends video 7,000 ft on Cat5
- Compatible with category 5, 5e and 6 wiring
- Power required on both transmit and receive sides

**BADGER PART NUMBER:**  
**B-300**



B-300

## DVR-43G, DVR-83G, DVR-163G

### H.264 Networkable DVR

- H.264 • 3G mobile phone support
- Central managements software
- MAC and PC compatible
- Manual, schedule, and event recording
- Audio inputs AVI watermark recording
- Optional 500GB or 1000GB hard drive

**BADGER PART NUMBER:**

- |                 |                            |
|-----------------|----------------------------|
| <b>DVR-43G</b>  | 4-Channel Networkable DVR  |
| <b>DVR-83G</b>  | 8-Channel Networkable DVR  |
| <b>DVR-163G</b> | 16-Channel Networkable DVR |



# TECHNOLOGY - DIGITAL RF MODULATORS

## E1200

### Micro Modulator

- 25dB mV Output • Non-volatile Memory
- Wide Channel Range Cable 65-135 (excl. 95-99)
- UHF: 14-78 • Push Button Channel Selector
- Unaffected by voltage brownouts
- Video Level adjustment (Available in "R" Retail version Series, with max output of 15db per FCC regulation)

**BADGER PART NUMBER:**  
**E1200**



E1200

## CVT-1 Stereo-II

### 1 Input MTS Stereo Modulator

- 20+dB Separation • Non-volatile Memory • Full 30+dB mV Output
- PLL crystal controlled Oscillator • Unaffected by voltage brownouts
- Antenna 14-78, Cable 59-135 (excluding 95-99)
- LED Channel Display, Video Level adjustment
- Push-button Channel Selector
- External 75 Ohm/1 KOhm Switch for stereo loop connections (Also Available In "R" Retail version Series, with a maximum output of 15db per FCC regulation)

**BADGER PART NUMBER:**  
**CVT1STEREO-II**



CVT-1 STEREO-II



### E2200IR, E3200IR, E4200IR

- Professionally engineered modulators at an economical price
- Convert 1, 2, 3, or 4 A/V sources to TV channels
- Digital display and up/down buttons for easy setup
- Digital drift-free performance
- Built-In Coax IR System

#### BADGER PART NUMBER:

<b>E2200IR</b>	2 Input Modulator
<b>E3200IR</b>	3 Input Modulator
<b>E4200IR</b>	4 Input Modulator



E-IR SERIES

### VDA-12

#### 1in-12out Audio/Video Baseband Amplifier

- 17" Component • High power output Drive Stage • 500 Lines Resolution
- Video S/N Ratio: 57dB
- Audio S/N Ratio: 49dB

#### BADGER PART NUMBER:

**VDA-12**



VDA-12

### P-1421

#### P-1421 6x4 Matrix Switcher for HDTV Component Video

- RS-232 and IR control capabilities
- Audio and component video switched simultaneously
- Easy to read LED display
- Remote included
- Supports resolutions up to 1080p

#### BADGER PART NUMBER:

**P-1421**



P-1421

## TECHNOLOGY - RF AMPLIFIERS AND SPLITTERS

### CVT-2/8WB

#### C-0333 Multimedia Cable Amplifier for Wideband CATV Systems

- 8 Amplified outputs: 4.5dB gain • Amplified return path from 5-42MHz
- Advanced bandwidth 5-1550MHz
- Supports one (1) modulator input & (1) CATV input
- Allows IR pass through on the modulator input port

#### BADGER PART NUMBER:

**CVT-2/8WB**



CVT-2/8WB

### C-0310

#### 1in-1out 10dB Amplifier

- Bi-directional • Power injected down the coax
- 5-42 MHz Return path for interactive TV
- 54-1000 MHz Forward path • UL and CSA approved
- Phantom power from anywhere using an injector

#### BADGER PART NUMBER:

**C-0310**



C-0310

### HS-2

#### 2-way Splitter/Combiner

- PCB Printed Circuit Board design
- Nickel-plated Housing
- DC/IR Passing all ports
- 5-1000 MHz Bandwidth
- 3.5dB Insertion Loss
- Machine threads, grounding screw (Also Available in "R-series" Retail Packaging)

#### BADGER PART NUMBER:

**HS-2**



HS-2

### CVT-15WB

#### Multimedia Cable Amplifier for Wideband CATV Systems

- HDTV high definition digital amplifier
- 15dB power injected inline amplifier
- 6KV IEEE surge protection for superior durability
- Lowest noise figure (3dB)
- Wide band amplification 5-1525MHz
- Bi-directional return path 5-42MHz
- Cable TV band 54-1525MHz

#### BADGER PART NUMBER:

**CVT-15WB**



CVT-15WB

### C-0332

#### 1in-16out RF Amplifier

- Unity gain output • 1GHz Broadband amplification
- DC/IR passing • UL and CSA approved
- Bi-directional, 54-1000 MHz forward, 5-42 MHz return path
- Includes C-0331 mounting plate with hardware, (2) HS-8V 8 Way vertical splitters, and a CVT-1/2PIA 1in-2out amplifier (all components also available for sale individually)

#### BADGER PART NUMBER:

**C-0332**



C-0332

### HS-3

#### 3-Way Splitter/Combiner

- PCB Printed Circuit Board design • Nickel-plated Housing
- DC/IR Passing all ports • 5-1000 MHz Bandwidth
- 5.5dB Insertion Loss
- Machine threads, grounding screw
- (Also Available in "R-series" Retail Packaging)

#### BADGER PART NUMBER:

**HS-3**



HS-3



## CVT-40BID

### 40dB High Gain RF Amplifier

- 50dBmV Output Level maximum
- 5-42 MHz Return Path
- 54-1000 MHz Frequency Range
- 0-40dB Gain Control • 0-20dB Tilt Control
- Internal Power Supply



CVT-40BID

**BADGER PART NUMBER:**

**CVT-40BID**

## HS-4

### 4-Way Splitter/Combiner

- PCB Printed Circuit Board design
- Nickel-plated Housing
- DC/IR Passing all ports
- 5-1000 MHz Bandwidth
- 7.0dB Insertion Loss
- Machine threads, grounding screw  
(Also Available in "R-series" Retail Packaging)



HS-4

**BADGER PART NUMBER:**

**HS-4**

## HS-8

### 8-Way Splitter/Combiner

- PCB Printed Circuit Board design
- Nickel-plated Housing
- DC/IR Passing all ports
- 5-1000 MHz Bandwidth
- 11.0dB Insertion Loss
- Machine threads, grounding screw



HS-8

**BADGER PART NUMBER:**

**HS-8**

## HS-6

### 6-Way Splitter/Combiner

- PCB Printed Circuit Board design
- Nickel-plated Housing
- DC/IR Passing all ports
- 5-1000 MHz Bandwidth • 9.0dB Insertion Loss
- Machine threads, grounding screw  
(Also Available in "R-series" Retail Packaging)



HS-6

**BADGER PART NUMBER:**

**HS-6**

## Line Taps

**BADGER PART NUMBER:**

- |               |  |
|---------------|--|
| <b>TP6DB</b>  | 6dB Line Tap<br>• 1dB Loss • DC Passing  |
| <b>TP9DB</b>  | 9dB Line Tap<br>• 1dB Loss • DC Passing  |
| <b>TP12DB</b> | 12dB Line Tap<br>• 1dB Loss • DC Passing |
| <b>TP16DB</b> | 16dB Line Tap<br>• 1dB Loss • DC Passing |
| <b>TP20DB</b> | 20dB Line Tap<br>• 1dB Loss • DC Passing |
| <b>TP24DB</b> | 24dB Line Tap<br>• 1dB Loss • DC Passing |



TP Series

## HS-16

### 16-way Splitter

- PCB Printed Circuit Board design • Nickel-plated Housing
- DC/IR Passing all ports • 5-1000 MHz Bandwidth
- 15.0dB Insertion Loss • Machine threads, grounding screw

**BADGER PART NUMBER:**

**HS-16**



HS-16

# TECHNOLOGY - RESIDENTIAL INTERCOMS

## DP-Series

### 1/4" thick Solid Brass Plate

- Available in four (4) different versions to suit a variety of systems (Channel Vision's P-0920/P-0921, Panasonic Compatible ,CAT5 intercom compatible, & Panasonic electronics for 800 & TDA)
- Optional hidden camera available • Discrete speaker and microphone
- Fits the DP-RBox-III flush mount box, and the DP-9001, DP-9002 surface mount boxes
- Available in 8 different finishes • Dimensions: 6 1/2"H x 4 3/8" W
- Surface mount box included

**BADGER PART NUMBER:**

**DP-(finish)**

## IU-Series

### 1/4" thick Solid Brass Plate

- Available in four (4) different versions to suit a variety of systems (Channel Vision's P-0920/P-0921, Panasonic Compatible ,CAT5 intercom compatible, & Panasonic electronics for 800 & TDA)
- Optional hidden camera available
- Discrete speaker and microphone
- Fits in a single gang box (included)
- Available in 8 different finishes
- Dimensions: 4 1/2"H x 2 3/4" W

**BADGER PART NUMBER:**

**IU-(finish)**







## DP-3/8-II

### RF Distribution Panel (3 inputs, 8 outputs)

- For distances up to 200 ft • PCB-based Splitters
- "Future Ready" Bi-directional Return Path for use with cable modems and addressable cable converters
- Low Noise (3dB) • DC Passing all ports
- High quality RF Amplifiers
- Power Injected through coax
- RG6U Cable Interconnects
- Vented Front Cover included
- Channel Vision Panel • Color: Powder Coated White



DP-3/8-II (Cover not shown)

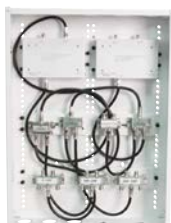
### BADGER PART NUMBER:

DP-3/8-II

## DP Custom

### Custom RF Distribution Panel

- Custom Designed to exactly match your system criteria
- Includes highest quality components
- Plug and Play Design and labeling simplifies installations
- An absolute necessity for large systems such as sports bars, hotels, schools, hospitals and large custom homes
- Free System Design



DP Custom

### BADGER PART NUMBER:

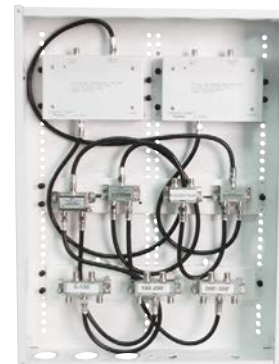
DP CUSTOM

Whether your system calls for a home with eight televisions or a sports bar with over 70 units, Channel Vision has the RF distribution panel that fits the need. Panels are available in 3 inputs with 8 outputs design for cable runs up to 200 feet or 3 inputs with 12 outputs design for cable runs up to 300 feet. They are pre-configured to take the guesswork out of system installation with an easy "plug-and-play" design. For larger systems, we provide custom-made RF panels. Simply call Channel Vision with your system criteria and a custom panel will be made and shipped to you, ordinarily within 15 days.

## DP-3/12-II

### RF Distribution Panel (3 inputs, 12 Outputs)

- For distances up to 300 ft
- "Future Ready" Bi-directional Return Path for use with cable modems and addressable cable converters
- PCB Based Splitters
- Low Noise (3dB)
- DC Passing all ports
- High quality RF Amplifiers
- Power Injected through the coax
- RG6U Cable Interconnects
- Vented Front Cover included
- Color: Powder Coated White



DP-3/12-II  
(Cover not shown)

### BADGER PART NUMBER:

DP-3/12-II

# TECHNOLOGY - CONNECTORS AND ACCESSORIES

## 2101

### F-Male Terminator

- 75 Ohm

### BADGER PART NUMBER:

2101



2101

## Cable Clip with Nail

- RG6 Cable Clip with nail

### BADGER PART NUMBER:

1115 Black  
1116 White



1115

## 5104

### Microphone

- Microphone to add audio to any camera
- Requires separate 5015PS (Regulated power supply)
- Cannot be combined with camera power

### BADGER PART NUMBER:

5104-MIC



5104-MIC

## Attenuators

### BADGER PART NUMBER:

3000-3 3dB Attenuator  
3000-6 6dB Attenuator  
3000-10 10dB Attenuator  
3000-20 20dB Attenuator



3000-3

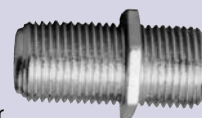
## 2102

### Double Female F-splice

- Connector with F Screw Coupling
- Joins two co-axial cables together

### BADGER PART NUMBER:

2102



2102

## 1003

### F-Connector Tool

- Screwdriver type
- Used to remove/install F-connectors in difficult spaces

### BADGER PART NUMBER:

1003



1003

## F-Connectors Crimp-on Type

### BADGER PART NUMBER:

2103 F-connector for RG59  
2104 F-connector for RG6  
2104-C F-connector for RG6 (Compression)



2103

## 1000A

### RF Kit

- (4) HS-2s, (3) HS-3s, (4) HS-4s,
- (5) 2105s, (5) 2126s, (5) 3000-3s,
- (5) 3000-6s, (5) 3000-10s,
- (2) 3000-20s, (25) 2101s,
- (50) 2133s, (25) 2134s

### BADGER PART NUMBER:

1000A-RF-KIT-A



1000A-RF-KIT-A



## 1005

### RF Tool and Connector Kit

Kit includes the following:  
(1) 1004, (1) 1011, (1) 1003,  
(100) 2104s, (20) 2102s, (20) 2101s,  
(2) HS-2s, (1) HS-4, (1) 1006

**BADGER PART NUMBER:**

1005

## 2134

### F-Type Connector

- Push and Seal for RG6 Quad (blue)
- Uses 1015 push and seal tool • Waterproof

**BADGER PART NUMBER:**

2134



2134

## P-0328

### Digital/Cable Combiner

- Eliminates Cable interference without filters
- Easy source switching
- Modulation solution • Future-Proof
- Eliminates Call Backs
- Supports runs from 2 modulators to 8 TVs

**BADGER PART NUMBER:**

P-0328



P-0321

## IR-5010

### Plasma Proof IR Kit

- Control devices behind cabinet doors up to 1,000 ft away
- Plasma Proof IR Repeater
- Included accessories allow for versatile mounting - on a TV, flat surface or flush mounted

**BADGER PART NUMBER:**

IR-5010



IR-5010

## CC-372

### 3-gang Home Theater Connection Center

- Provides connections for home theater systems as large as 7.2
- 6 empty wall plate ports for easy customization
- Fits into a standard 3-gang low-voltage bracket

**BADGER PART NUMBER:**

CC-372



CC-372

## Blank Inserts

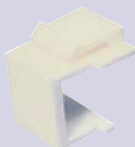
**BADGER PART NUMBER:**

J-I-B-LA

Blank Insert - Light Almond

G-I-B-W

Blank Insert - White



J-I-B-LA

## J-C3ALA

### Plate Insert - Light Almond

- 6P4C, RJ-14, 110
- Voice Grade

**BADGER PART NUMBER:**

J-C3ALA



J-C3ALA

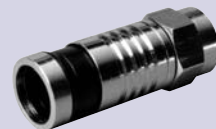
## 2133

### F-Type Connector

- Push and Seal for RG6 (black)
- Uses 1015 push and seal tool • Waterproof

**BADGER PART NUMBER:**

2133



2133

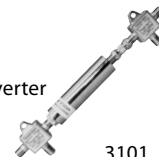
## 3101

### Cable Box Combiner

- Maps Modulated Channel around cable box converter

**BADGER PART NUMBER:**

3101



3101

## J-110-Tool

### 110 Punch Down Tool

- 110 Punch Down Tool (yellow)
- Jacket Stripper
- Inexpensive price

**BADGER PART NUMBER:**

J-110-TOOL



J-110-TOOL

## A0316

### iBus Wall Dock for Distributed Audio

- Audio wall dock for iPod®
- Control iPod via remote with built-in IR receiver
- Charges the iPod while docked
- Mounts in standard 2 gang box
- RS-232 Video Out (iPod not included)

**BADGER PART NUMBER:**

A0316



A0316

## CC-272

### 2-Gang Home Theater Connection Center

- Provides connections for home theatre systems as large as 7.2
- Fits into a standard 2-gang low-voltage bracket

**BADGER PART NUMBER:**

CC-272



CC-272

## J-C5ALA

### Plate Insert - Light Almond

- CAT5E, 8P8C, 110 • T568A, T568B

**BADGER PART NUMBER:**

J-C5ALA



J-C5ALA

## J-C5AB

### Plate Insert - Blue

- CAT5E, 8P8C, 110 • T568A, T568B

**BADGER PART NUMBER:**

J-C5AB



J-C5AB

## J-IFC-LA

### Jack Insert - Light Almond

- BNC Connector

**BADGER PART NUMBER:**

J-IFC-LA



J-IFC-LA





# ONLINE STORE we've got you covered

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## FREE STANDARD SHIPPING

\*for all orders that qualify for standard ground shipping. some exclusions apply.

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The Badger Support Team will help you understand which hardware and software your Avaya systems need to ensure your customer has the features they need.

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Choose our introductory classes to refresh or take your first steps into the world of Avaya and IP Office.

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## CLEAR2THERE IP/HYBRID DVR's

### HDVR EZ-IP Series NVR

- Embedded Linux OS • 4, 8 or 16 IP Cameras
- No IP Licensing Required • MPEG4/H.264 Recording up to 30fps/Camera
- Fast Web Based Live View / Playback • Up to 12,000 GB Storage / Hot Swap Drives
- Playback with Intelligent Search
- Free Central Management Software for Managing Multiple NVR's
- iPhone, iPad and Android Compatible • Compatible with over 50 brands of IP cameras
- Storage Sold Separately

#### BADGER PART NUMBER:

- C2THDVRZIP4** HDVR EZIP Series 4 Channel NVR  
**C2THDVRZIP8** HDVR EZIP Series 8 Channel NVR  
**C2THDVRZIP16** HDVR EZIP Series 16 Channel NVR



HDVR EZ-IP Series NVR

### HDVR Hybrid Series

- Embedded Windows OS • Up to 64 Cameras (Analog, IP or Combination)\*
- Must add analog video cards or IP license • MPEG4/H.264 Recording up to 30fps/Camera
- Fast Web Based Internet Access • Up to 15,000 GB Storage / Hot Swap Drives
- Advanced Analytics (Missing Object, Foreign Object, Camera Occlusion, Motion)
- CD/DVD / USB / Web Back-Up • Free Client Software for Viewing Multiple DVR's
- Compatible with over 50 brands of IP cameras • ONVIF Compliant
- RAID Configurations Available • iPhone/iPad and Android Compatible

### HDVR Pro Series (Additional Features)

- 2U Chassis • Redundant Operating System
- Redundant Power Supplies • Dual Gigabit Network Ports
- Up to 24,000 GB Internal Storage / Hot Swap Drives

#### Chassis Options: Desktop

##### BADGER PART NUMBER:

- C2THDVR24K** HDVR Hybrid DVR 24K Chassis Only  
**C2THDVR58K** HDVR Hybrid DVR 58K Chassis Only  
**C2THDVR110K** HDVR Hybrid DVR 110K Chassis Only

#### Chassis Options: Rackmount

##### BADGER PART NUMBER:

- C2THDVR24K-R** HDVR Hybrid DVR 24K Chassis Only  
**C2THDVR58K-R** HDVR Hybrid DVR 58K Chassis Only  
**C2THDVR110K-R** HDVR Hybrid DVR 110K Chassis Only  
**C2THDVRPRO220K-R**

#### Analog Cards

##### BADGER PART NUMBER:

- C2THDVRA8** 8-Channel analog video card, 240fps/D1  
**C2THDVRA16** 16-Channel analog video card, 480fps/D1

#### IP Licenses

##### BADGER PART NUMBER:

- C2THDVRIPL** 1 IP camera license with megapixel support

\*Number of cameras depends on quality, frame rate and resolution. Please refer to the Clear2there "K" calculator for correct chassis size. Please check with Clear2there for IP camera compatibility. For Custom Configurations and Quotes, Call the Clear2there Team! 800-210-2172



Pro



Desktop



Rackmount

#### Hard Drives:

##### BADGER PART NUMBER:

- 500GB-HD**  
**1000GB-HD**  
**2000GB-HD**  
**3000GB-HD**

#### Optional Items:

##### BADGER PART NUMBER:

- C2THDVRPOS** Point of Sale Capture Box and License (need 1 per register)



C2THDVRPOS

View our searchable electronic catalog at: [www.badgercommunications.com](http://www.badgercommunications.com)



## H.264 High Profile 4.2 Compression

- Most efficient compression technology available
- Better picture quality • More storage

## Fast MegaPixel Image Rates

- Up to 30fps in Full HD 1080p Mode

## Multi-Streaming

- Up to 3 simultaneous independent streams
- Two H.264, One MJPEG
- Each stream configurable independently
  - Frames per second
  - Resolution - Quality
  - Send to different source

## Mini SD Slot

- Record directly to SD card on alarm
- Supports > 2gb card

## ONVIF Compliance

- Fully compliant with ONVIF industry standards

## Digital Zoom

- Zoom live or after event while recording full field of view in HD

## Real Time Streaming Protocol (RTSP)

- Allows for compatibility with media players such as Apple QuickTime®, Windows Media Player®, VLC Player®, etc.

## Alarm Contacts

- Direct Input/Output triggers
- RS485 output
- Trigger alarm events to PTZ

## Viewbiquity M2M (Machine to Machine) Compliance

- [www.viewbiquity.com](http://www.viewbiquity.com)

## 1080P - 2 Megapixel Cameras

### C2TA521080LLIPOE

- Anti-Vandal Dome
- 1920x1080
- 2.8-10mm Lens
- Optional Mounts Available, part numbers start with C2TA5

#### BADGER PART NUMBER:

**C2TA521080LLIPOE**



C2TA521080LLIPOE

### C2TDC521080IPOE

- Indoor Dome
- 1920x1080
- 2.8-10mm Lens
- Flush Mountable
- Built in Audio

#### BADGER PART NUMBER:

**C2TDC521080IPOE**



C2TDC521080IPOE

### C2TBC221080IPOE

- Outdoor Bullet
- 1920x1080
- 2.8-10mm Lens

#### BADGER PART NUMBER:

**C2TBC221080IPOE**



C2TBC221080IPOE

### C2TPC1080IPOE

- Professional Body Camera
- 1920x1080
- Built In Audio
- Lens Sold Separately (C2TLENS2885M)

#### BADGER PART NUMBER:

**C2TPC1080IPOE**



C2TPC1080IPOE

## MegaPixel Cameras

### C2TPTZ13MPIP

- 1.3 Megapixel PTZ
- 18X Optical Zoom
- 1280x960
- 4.7-84.6mm Lens
- Heater/Blower Housing Included

#### BADGER PART NUMBER:

**C2TPTZ13MPIP**



C2TPTZ13MPIP

### C2TPC720IPOE

- 1 Megapixel
- Professional Body Camera
- 1280x720 (720P) • Built In Audio
- Lens Sold Separately (C2TLENS2885M)

#### BADGER PART NUMBER:

**C2TPC720IPOE**



C2TPC720IPOE

## Analog/IP Converter (D1)

- 1, 2 or 4 Channel
- Convert in D1 or CIF
- RS485 Support
- Alarm Contacts

#### BADGER PART NUMBER:

**C2TVS1D1** 1 Channel  
**C2TVS2D1** 2 Channel  
**C2TVS4D1** 4 Channel



Analog/IP Converter



## 1000 Series DVR

- 4, 8 or 16 Channel Embedded Linux DVR • Real Time H.264 Recording 30fps/camera
- 4 Channel Audio (8 & 16 Channel) • Fast Web Based Internet Access
- Free DDNS Service • USB / Web Back-Up • iPhone, Android, Blackberry Compatible

### BADGER PART NUMBER:

<b>C2TDVR1004</b>	4 Channel, 500GB
<b>C2TDVR10041T</b>	4 Channel, 1000GB
<b>C2TDVR10042T</b>	4 Channel, 2000GB
<b>C2TDVR1008</b>	8 Channel, 500GB
<b>C2TDVR10081T</b>	8 Channel, 1000GB
<b>C2TDVR10082T</b>	8 Channel, 2000GB
<b>C2TDVR1016</b>	16 Channel, 500GB
<b>C2TDVR10161T</b>	16 Channel, 1000GB
<b>C2TDVR10162T</b>	16 Channel, 2000GB



1000 Series DVR

## EZ Real Series DVR

- 4, 8 or 16 Channel Embedded Linux DVR
- Real Time H.264 Recording 30fps/camera
- 4 Channel Audio • Fast Web Based Internet Access
- Free DDNS Service • Up to 4000GB Storage
- CD/DVD / USB / Web Back-Up
- Free Central Management Software for Managing Multiple DVRs
- iPhone, Android, Blackberry Compatible

### BADGER PART NUMBER:

<b>C2TEZ4120</b>	4 Channel DVR, 120fps, 4 Loop Out BNC, 8 Alarm Contacts (4in/4out)
<b>C2TEZ8240</b>	8 Channel DVR, 240fps, 8 Loop Out BNC, 16 Alarm Contacts (8in/8out)
<b>C2TEZ16480</b>	16 Channel DVR, 480fps, 16 Loop Out BNC, 32 Alarm Contacts (16in/16out)



EZ Real Series DVR

# CLEARNIGHT ULTRA CAMERA

## ClearNight Ultra Camera

The ClearNight Ultra camera is the industry leader in low-light camera technology. See COLOR images in almost complete darkness without the use of IR LED's and because of the Ultra's extended dynamic range, have more vivid colors in bright lighting.

- 650 Lines of Color Resolution
- Minimum Illumination .0005 Lux in Color
- 3rd Generation 3D Noise Reduction - Eliminates Noise in Picture During Low Light Settings
- Dual Voltage - 12VDC/24VAC
- 2nd Video Out - Installer Port for Setup/Focus
- Wider Dynamic Range - Capture Images in Bright Lighting as Well as Low Light Areas
- 3x Faster Adjustment to Lighting Changes
- 3 Axis - Wall or Ceiling Mount
- 2.8-12mm Auto Iris Varifocal Lens
- Full OSD Operation

### BADGER PART NUMBER:

**C2TA52ULTRA**



C2TA52ULTRA



ClearNight Ultra head-to-head against leading competitors in low light.

Check out the Ultra against the competition at  
<http://www.clear2there.com/ultrademo>  
and clearly see the difference!  
(The Ultra is the upper right camera)



ClearNight Ultra head-to-head against leading competitors in bright light.



## ANALOG CAMERAS

### Indoor Dome Camera

- 650TVL
- 2.8-10mm Varifocal Lens
- Advanced Noise Reduction
- 3 Axis Mount
- Ceiling/Wall/Flush Mountable
- 12VDC

**BADGER PART NUMBER:**  
**C2TDC52650**



C2TDC52650

### Indoor Dome Camera

- Ball/Socket Design (3 Axis)
- Ceiling or Wall Mountable
- Flush Mount Optional (C2TDC2FLUSH)
- 2.8-12mm Varifocal Lens • 12VDC
- Colors: White/White (WW), Black/Black (BB), White/Black (WB)

**BADGER PART NUMBER:**

**C2TDC22420-xx** 420TVL  
**C2TDC22CNIGHT-xx** 600TVL

xx Denotes Color



C2TDC2 Black/Black

C2TDC2 White/Black



C2TDC2 White/White

### Indoor/Outdoor Dome Camera

- Ball/Socket Design (3 Axis) • Ceiling or Wall Mountable
- Up to 36 IR LEDs Depending on Model\* • 12VDC
- Colors: White (WH), Grey (GY), Black (BK)\*\*

**BADGER PART NUMBER:**

**C2TA62650IR-xx** 650TVL, 2.8-10mm Lens  
**C2TA22CNIGHT-xx** 600TVL, 2.8-11mm Lens  
**C2TA22420-xx** 420TVL, 2.8-11mm Lens  
**C2TA31600-xx** 600TVL, 3.6mm Lens  
**C2TA31420-xx** 420TVL, 3.6mm Lens

xx Denotes Color

\* ClearNight models do not have IR LEDs

\*\* C2TA6 model does not come in black



C2TA2 Black



C2TA2 White



C2TA2 Grey

### Anti-Vandal Dome Camera

- 3 Axis Mount • Wall or Ceiling Mount
- Indoor or Outdoor with optional wall mount
- IR LEDs on C2TA52CDYNAMIC and C2TA52650IR Only
- 12VDC/24VAC • 2.8-10mm Lens

**BADGER PART NUMBER:**

**C2TA52ULTRA** 650TVL, Ultra Low Light  
**C2TA52CDYNAMICIR** 680TVL, WDR, IR  
**C2TA52650IR** 650TVL, IR  
**C2TA52650** 650TVL



C2TA5



C2TA5PEB  
Pendant Mount



C2TA5WALL  
Wall Mount



C2TA5OCM  
Corner Mount



C2TA5POB  
Pole Mount



C2TA5ADPT  
2 Gang Box  
Adapter Plate

## ANALOG CAMERAS

### Indoor Body Camera

- Wall or Ceiling Mountable with C2TACC721 Mount
- Use Outdoor with Housing C2TAH25HB006
- Lens Sold Separately

**BADGER PART NUMBER:**

**C2TPCCDYNAMIC** 680+ HTVL-E, ClearDynamic WDR  
**C2TPCCNIGHT** 600TVL, ClearNight Low Light  
**C2TPC650NR** 650TVL  
**C2TPC411** 420TVL

#### Lens Models

**BADGER PART NUMBER:**

**C2TLENS600** 2.8-12mm  
**C2TLENS601** 5-50mm  
**C2TLENS603** 5-100mm



C2T Body Camera

Download our lens calculator at  
[www.clear2there.com/lenscalculator](http://www.clear2there.com/lenscalculator)

### Indoor/Outdoor Bullet Camera

- Wall or Ceiling Mountable
- WeatherGuard
- 30 Jumbo IR LEDs\*
- 120' IR Range
- 12VDC/24VAC

**BADGER PART NUMBER:**

**C2TBC12CNIGHT** 600TVL, ClearNight, 2.8-11mm  
**C2TBC13CNIGHT** 600TVL, ClearNight, 9-22mm  
**C2TBC12600DN** 600TVL, 2.8-11mm  
**C2TBC13600DN** 600TVL, 9-22mm  
**C2TBC12420DN** 420TVL, 2.8-11mm  
**C2TBC13420DN** 420TVL, 9-22mm

\*Note: ClearNight models do not have IR LEDs



C2TBC



### Indoor PTZ Camera

- 540TVL
- 10X Optical
- 10X Digital Zoom
- Power Supply Included
- Ceiling or Wall Mountable  
(with optional C2TA4WALL mount)

**BADGER PART NUMBER:**  
**C2TPTZESCORT**



C2TPTZESCORT

### Outdoor PTZ Camera

- 10X Digital Zoom
- Power Supply Included
- Heater/Blower Housing Included
- Optional Mounting: Pendant, Pole or Corner

**BADGER PART NUMBER:**

**C2TPTZ532** 480TVL, 27X Optical  
**C2TPTZ536** 530TVL, 36X Optical



C2TPTZ532, C2TPTZ536

## ACCESSORIES/POWER SUPPLY/HOUSINGS AND MOUNTS

### Pan, Tilt & Zoom Accessories

**BADGER PART NUMBER:**

- C2T563** PTZ Speed Dome Keyboard, 3 Axis Joystick  
**C2TACC53XOCM** Outdoor Corner Mount Bracket for C2TPTZ53X  
**C2TACC53XPOB** Pole Mount Bracket for C2TPTZ53X  
**C2TACC53XPB** Pendant Mount Bracket for C2TPTZ53X  
**C2TACCPZ13OCM** Outdoor Corner Mount Bracket for C2TPTZ13MPIP  
**C2TACCPZ13POB** Pole Mount Bracket for C2TPTZ13MPIP  
**C2TACCPZ13PB** Pendant Mount Bracket for C2TPTZ13MPIP



C2T563

### Power Supply

#### 12VDC Models

**BADGER PART NUMBER:**

- C2TACC731** 1A Power Transformer  
**C2TACC733** 4 Channel Power Supply, 4A – PTC Protection  
**C2TACC734** 8 Channel Power Supply, 4A – PTC Protection  
**C2TACC735** 16 Channel Power Supply, 8A – PTC Protection  
**C2TACC740** 8 Channel High Power Supply, 8A – PTC Protection  
**C2TACC741** 16 Channel High Power Supply, 17.2A – PTC Protection

#### 24VAC Models

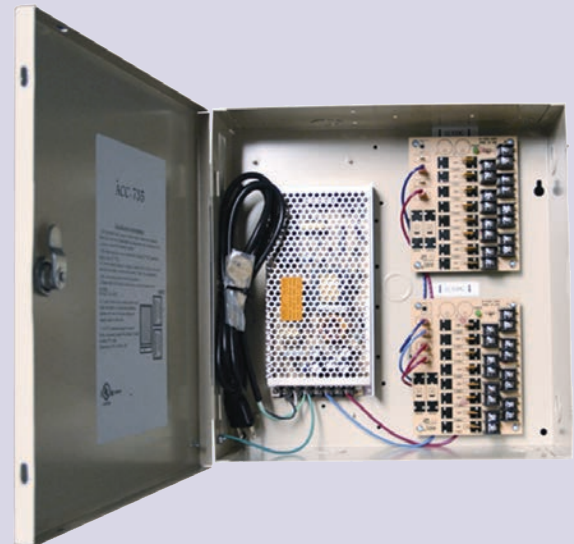
**BADGER PART NUMBER:**

- C2TACC24VAC** 20VA Power Transformer  
**C2TACC736** 8 Channel Power Supply, 4A – PTC Protection  
**C2TACC737** 16 Channel Power Supply, 8A – PTC Protection

#### 24VAC/12VDC Converter

**BADGER PART NUMBER:**

- C2TACC761** 24VAC to 12VDC Power Converter



### Twisted Pair

**BADGER PART NUMBER:**

- C2TBALP3** Pair of Passive Baluns, Up to 1000'  
**C2TBAL16R** 16 Port Transceiver Balun Hub

### Test Monitor

**BADGER PART NUMBER:**

- C2TTESTMON** High Resolution Test Monitor, Cable Tester (Coax/Cat5), PTZ Function/Setup, RS485, Multi Meter Tester, 12VDC Output, Rechargeable Battery



C2TTESTMON

### Professional Services

**BADGER PART NUMBER:**

- C2TSTAGING** Staging Service for Camera/DVR Setup - Includes Setting IP Address for Cameras and DVR, Naming Camera, Labeling Camera, Setting Frame Rate and Recording in DVR.  
**C2TWBETR** End User Web Training for DVR's. 5 Business Days Advance Scheduling  
**C2TPROFSVC1** First Day - Onsite Professional Services - Includes DVR Installation, Setup and End User Training (no cable pulling included), 15 Business Days Advance Scheduling  
**C2TPROFSVC2** Additional Days - Onsite Professional Services - Includes DVR Installation, Setup and End User Training (no cable pulling included), Priced Per Day



## ComNet™ Managed Ethernet Switches

- The GE3FE7MS2 features three selectable SFP 1000Mbps ports and 7 10/100Mbps TX ports
- The GE8FX4TX4MS features 1000Mbps user selectable SFP ports as well as 4 10/100/1000 Mbps TX ports
- The GE2FE8MSPOE features three selectable SFP 1000Mbps ports and 7 10/100Mbps TX ports that support the IEEE 802.3af Power over Ethernet standard
- Hardened units are designed for use in out-of-plant or roadside operating environments
- Available for use with either conventional CAT-5e copper or optical transmission media
- Available for use with multimode or single mode optical fiber
- Utilize SFP modules for distance and connector type flexibility
- All ComNet products come with a Lifetime Warranty when used with ComNet SFPs

### BADGER PART NUMBER:

**CNGE3FE7MS2**

**CNGE2FE8MSPOE**

**CNGE8FX4TX4MS**



CNGE3FE7MS2

## ComNet™ High Port Count Managed Ethernet Switches

- Managed Ethernet Switches provides transmission of (24) 10/100 BASE-TX and (2) 10/100/1000TX or 1000FX combo ports
- Environmentally hardened units are designed for deployment in difficult operating environments
- For use with either conventional CAT-5e copper or optical transmission media
- The CNGE2FE24MSPoE features 24 ports that support IEEE.802.3af based POE
- 2 ports are 10/100/1000 configurable for copper or fiber media for use with multimode or single mode optical fiber, selected by optional SFP modules
- GE2FE24MS offers the same port counts, but without the PoE function
- All ComNet products come with a Lifetime Warranty when used with ComNet SFPs

### BADGER PART NUMBER:

**CNGE2FE24MSPoE**

**CNGE2FE24MS**



CNGE2FE24MSPoE

## ComNet™ Ethernet over Copper Products

The ComNet Ethernet over Copper product line is a suite of environmentally hardened modems that support Ethernet over twisted pair or coaxial cable using VDSL (EoVDSL) technology at data rates of up to 90 Mbps.

- Small-size single model CNFE1CL1MCM, full-size single model CNFE1CL1MC and dual model CNFE2CL2MC
- Economical unhardened version CNFE1EOC
- Uses a telephone-grade twisted copper pair, legacy serial cabling, or standard 75 ohm coaxial cable circuits
- Ideal for those applications where an existing installed base of copper wiring for Ethernet transmission is available
- Automatically selects fastest data rates, depending upon the transmission distance and cable quality.
- Distances of up to 3 km over twisted copper, or up to 1500 ft (457 m) over coaxial cable
- All ComNet products come with a Lifetime Warranty when used with ComNet SFPs

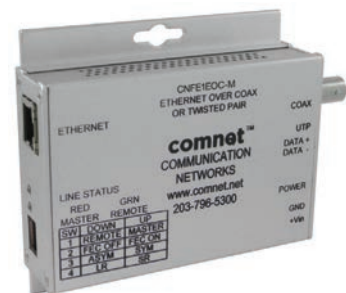
### BADGER PART NUMBER:

**CNFE1CL1MC**

**CNFE1CL1MC-M**

**CNFE2CL2MC**

**CNFE1EOC**



CNFE1EOC

## ComNet™ Ethernet Media Converters

ComNet media converters are available with either fixed SC and ST optical connectors or with user-selectable SFPs. ComNet offers both 100 BASE-FX Optical to 10/100 Base-TX copper media converters and 1000 BASE-FX optical to 1000 Base-TX copper media converters. ComNet media converters are available in a small package size as well as a standard size that is interchangeable between standalone and the ComNet card cage. All ComNet media converters are hardened for use in the toughest industrial environments. LED indicators confirm operating status. All ComNet media converters feature the exclusive ComNet Lifetime Warranty.

### BADGER PART NUMBER:

**CNFE1002M1A/B**

**CNFE1003M2**

**CNFE2MC**

**CNFE22MC**

**CNGE2MCM**

**CNGE2MC**

**CNGE22MC**



CNFE100(X)

Every effort has been made to ensure the integrity of this catalog. Badger Communications cannot be held responsible for any misrepresentation associated with any products due to omissions, typographic errors or misprints.



### ComNet™ Ethernet Media Converters with PoE

The ComNet™ CNFE2MCPQE Ethernet 2 port media converter is designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP modules. These models require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. The CNFE2MCPQE transmits and receives a single channel of Ethernet data. It also supports IEEE 802.3at as Power Sourcing Equipment (PSE) with up to 25 Watts @ 48VDC. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments.

**BADGER PART NUMBER:**

**CNFE2MCPQE**



CNFE2MCPQE

### ComNet™ Unmanaged Ethernet Switches

ComNet Ethernet switches are either four or 8 port devices that can be used as an aggregation device in order to insert Ethernet data on to the network. These devices are unmanaged switches. They are available in 4 or 8-port designs as well as fast Ethernet or Gigabit Ethernet models. ComNet offers all copper, (RJ-45), a combination of optical and copper and all optical. All ComNet Ethernet switches require the use of user-selectable SFPs for increased flexibility in application. All ComNet Ethernet switches are hardened for use in the toughest industrial environments. LED indicators confirm operating status. All ComNet Ethernet switches feature the exclusive ComNet Lifetime Warranty.

**BADGER PART NUMBER:**

**CNFE4FX4US**

**CNFE4FX2TX2US**

**CNFE4TX4US**

**CNFE4US**

**CNFE8FX8US**

**CNFE8FX4TX4US**

**CNFE8TX8US**

**CNFE8US**



CNFE4FX4US



CNFE4US

### ComNet™ Small Form Factor Pluggable Modules (SFP)

The ComNet line of 30 SFP modules expands the flexibility of the entire ComNet Ethernet product line. ComNet SFPs come in a variety of media types; copper, multimode and single mode optical fiber. They are available in distances up to 120 km and with SC and LC fiber connectors. ComNet SFPs are used in ComNet managed and unmanaged switches as well as media converters. Using ComNet SFPs ensures that the ComNet Lifetime Warranty stays in effect with all ComNet Ethernet Products.

**BADGER PART NUMBER:**

**SFP-1 through SFP-36B**



SFP Pluggable Modules

### ComNet Video, Data and Ethernet Fiber Optic Transmission Products

The ComNet™ FVT/FVR10D1E series video transmitter/ receiver and data transceiver and the FVT10D1EM mini transmitter transmit and receive short haul quality 10-bit EIA RS-250C digital video with one bi-directional data channel plus one 10/100 Mbps fast Ethernet port. The modules are universally compatible with major CCTV camera manufacturers and supports RS232, RS422 and 2 or 4-wire RS485 data interfaces and most data protocols. It also supports "up-the-coax" data transmission from most major manufacturers.

**BADGER PART NUMBER:**

**FVT10D1EM**

**FVT10D1E**

**FVR10D1E**



FVT/FVR10D1E Series



## Achieve Full Coverage

In video surveillance situational awareness is crucial. The IMV1-1/3 panomorph lens is the most effective tool in getting a complete view of your environment. With panomorph technology, users can expect greater coverage, increased resolution and better results.

## Easy Integration

Getting an immersive 360° view is as quick and easy as switching the lens. If you currently use a camera with a CS-mount lens, you are on your way to complete 360° panomorph functionality. You will be surprised how easily panomorph integrates into existing or new video surveillance systems.

## Universal Dewarping Compatibility

As The 360° Video Standard, ImmerVision Enables is offered by all major VMS platforms and camera vendors. It is the only 360° universally compatible dewarping standard.

## Benefits

- Achieve total visual coverage
- Eliminate blind spots
- Heighten situational awareness
- View/record/playback an entire event in 360° for forensic review
- Complement fixed/PTZ cameras



## Capture all the Evidence

- Navigate within live or recorded 360° video on multiple independent views without distortion
- Use digital PTZ while recording the full 360° image from one video source
- Choose different viewing types offered by NVR/VMS vendors, such as: single view, quad view and perimeter view



## Features

- Retrofits analog and IP cameras
- Get 4x more coverage
- Super wide angle 182° x 360° FOV
- 3 axis sensor centering adjustment for perfect alignment on sensor

### BADGER

#### PART NUMBER

- IMV1-1/3 360°
- IMV1-1/3NI 360°

#### Description:

- Panomorph lens, DC-Iris
- Panomorph lens, No Iris




















Trust the Certification








Any solution displaying the ImmerVision Enables logo guarantees complete 360° panomorph dewarping functionality. [www.immervisionenables.com](http://www.immervisionenables.com)






























<b>4K</b> <b>SNB-9000</b>  <b>4K UHD &amp; 12MP Box</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 4K @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus</li> <li>• Day &amp; Night (ICR)</li> </ul>	<b>NEW</b> <b>PNM-9020V</b>  <b>2MP x4 Panoramic 180° View Multi-Sensor</b> <ul style="list-style-type: none"> <li>• 7.6MP @ 30fps / Stitched Video</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• Heatmap Analytics</li> <li>• On-board Analytics</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>PNO-9080R</b>  <b>4K IR Bullet</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 4K @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.2x Motorized Vari-focal Lens, Simple Focus</li> <li>• PTZ Hand-over</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics/Hallway View</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>PND-9080R</b>  <b>4K IR Dome</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 4K @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.2x Motorized Vari-focal Lens, Simple Focus</li> <li>• PTZ Hand-over</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics/Hallway View</li> <li>• IK08</li> </ul>	<b>NEW</b> <b>PNV-9080R</b>  <b>4K IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 4K @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.2x Motorized Vari-focal Lens, Simple Focus</li> <li>• PTZ Hand-over</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics/Hallway View</li> <li>• IP66/IP67/IK10</li> </ul>
<b>NEW</b> <b>PNF-9010R/RV/RVM</b>  <b>4K IR Fisheye</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 9MP @ 25fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• Simple Focus</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• M12 Mobile Connector (PNF-9010RVM)</li> <li>• IP66 (PNF-9010R/RV/RVM)</li> <li>• IK10</li> </ul>	<b>NEW</b> <b>PNP-9200RH</b>  <b>4K 20x IR PTZ</b> <ul style="list-style-type: none"> <li>• 12MP @ 20fps / 4K @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 20x Optical Zoom</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• IP66/IK10</li> </ul>	<b>5MP</b> <b>SNB-8000</b>  <b>5MP Box</b> <ul style="list-style-type: none"> <li>• 5MP @ 20fps, 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus, P-Iris</li> <li>• Built-in Mic</li> <li>• Tampering, Audio Detection</li> </ul>	<b>SNO-8081R</b>  <b>5MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 30fps@all resolutions</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.4x Motorized Vari-focal Lens</li> <li>• WDR 120dB</li> <li>• Hallway View (Rotate 90° / 270°)</li> <li>• IK10, IP66</li> </ul>	<b>SNV-8081R</b>  <b>5MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 30fps@all resolutions</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.4x Motorized Vari-focal Lens</li> <li>• WDR 120dB</li> <li>• Hallway View (Rotate 90° / 270°)</li> <li>• IK10, IP66</li> </ul>
<b>SNV-8080</b>  <b>5MP Vandal Dome</b> <ul style="list-style-type: none"> <li>• 5MP @ 20fps, 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.6x Motorized Vari-focal Lens</li> <li>• Heater by PoE (-40°F)</li> <li>• IK10, IP66</li> </ul>	<b>SNF-8010/8010VM</b>  <b>5MP Fisheye</b> <ul style="list-style-type: none"> <li>• 5MP @ 20fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 6 Dewarping View Modes</li> <li>• Digital PTZ / Bi-Directional Audio</li> <li>• M12 &amp; RJ-45 Connector (SNF-8010VM)</li> <li>• IK10, IP66 (SNF-8010VM)</li> </ul>	<b>4MP</b> <b>QNO-7080R</b>  <b>4MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNO-7030R</b>  <b>4MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNO-7020R</b>  <b>4MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>
<b>NEW</b> <b>QNO-7010R</b>  <b>4MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QND-7080R</b>  <b>4MP IR Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> </ul>	<b>NEW</b> <b>QND-7030R</b>  <b>4MP IR Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>	<b>NEW</b> <b>QND-7020R</b>  <b>4MP IR Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>	<b>NEW</b> <b>QND-7010R</b>  <b>4MP IR Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>
<b>NEW</b> <b>QNV-7080R</b>  <b>4MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNV-7030R</b>  <b>4MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNV-7020R</b>  <b>4MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNV-7010R</b>  <b>4MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 20fps@4MP, 30fps@2MP</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>3MP</b> <b>SNB-7004</b>  <b>3MP Box</b> <ul style="list-style-type: none"> <li>• 3MP @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus, P-Iris</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>























<b>SNO-7084R</b>  <b>3MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 3MP @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>	<b>SND-7084/7084R</b>  <b>3MP Dome/IR</b> <ul style="list-style-type: none"> <li>• 3MP @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK08 (SND-7084R)</li> </ul>	<b>SNV-7084/7084R</b>  <b>3MP Vandal Dome/IR</b> <ul style="list-style-type: none"> <li>• 3MP @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>	<b>2MP</b> <b>SNB-6011B</b>  <b>2MP 2.4mm Covert</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 134° Wide Angle View</li> <li>• Wide Dynamic Range 120dB</li> <li>• Analog BNC Output</li> <li>• On-board Analytics</li> <li>• Multi-crop Streaming</li> <li>• Audio</li> </ul>	<b>SNB-6010A/6010B</b>  <b>2MP 4.6mm Covert</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 71° Wide Angle View</li> <li>• Wide Dynamic Range 120dB</li> <li>• Analog BNC Output</li> <li>• On-board Analytics</li> <li>• Multi-crop Streaming</li> <li>• Audio (SNB-6010B)</li> </ul>
<b>SNB-H-6010A</b>  <b>2MP Height Strip</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 71° Wide Angle View</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Multi-crop Streaming</li> <li>• Durable Steel Construction</li> <li>• Visible Color Coded Height Levels</li> </ul>	<b>SNB-J-6010</b>  <b>2MP Doorjamb Camera</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 71° Wide Angle View</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Multi-crop Streaming</li> <li>• Durable Steel Construction</li> <li>• Fits Most Standard Door Frames</li> </ul>	<b>SNB-6005</b>  <b>2MP Super Low Light Box</b> <ul style="list-style-type: none"> <li>• 1080P @ 60fps</li> <li>• 1/1.9" PS 2.4M CMOS</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus, P-Iris</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>	<b>SNB-6004/6003</b>  <b>2MP Box</b> <ul style="list-style-type: none"> <li>• 1080P @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus, P-Iris (SNB-6004)</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>	<b>SNZ-6320</b>  <b>2MP Zoom Box</b> <ul style="list-style-type: none"> <li>• 1080P @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 32x Optical Zoom</li> <li>• Auto Focus, P-Iris</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>
<b>SNO-6084R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>	<b>SNO-6011R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IP66</li> </ul>	<b>NEW</b> <b>QNO-6070R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNO-6030R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNO-6020R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>
<b>NEW</b> <b>QNO-6010R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>SNO-L6083R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> <li>• IK10, IP66</li> </ul>	<b>SNO-L6013R</b>  <b>2MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> <li>• IP66</li> </ul>	<b>SND-6084R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>	<b>SND-6084/6083</b>  <b>2MP Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens (SND-6084)</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>
<b>SND-6011R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>	<b>NEW</b> <b>QND-6070R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> </ul>	<b>NEW</b> <b>QND-6030R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>	<b>NEW</b> <b>QND-6020R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>	<b>NEW</b> <b>QND-6010R</b>  <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IK08</li> </ul>



<b>SND-L6083R</b>  <small>WISNET Lite</small> <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> </ul>	<b>SND-L6013R</b>  <small>WISNET Lite</small> <b>2MP IR Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> </ul>	<b>SND-L6013/L6012</b>  <small>WISNET Lite</small> <b>2MP Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• SND-L6013: 3.6mm Fixed Lens</li> <li>• SND-L6012: 2.8mm Fixed Lens</li> <li>• Motion Detection, Tampering</li> <li>• Hallway View, LDC</li> </ul>	<b>SNV-6085R</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.3x Motorized Vari-focal Lens (10~23mm)</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>	<b>SNV-6084/6084R</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>2MP Vandal Dome/IR</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Built-in IR (SNV-6084R)</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>
<b>SNV-6013</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>	<b>SNV-6012M</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>2MP Mobile Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3mm Fixed Lens (103.1° view)</li> <li>• Wide Dynamic Range 120dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IP66/IK10, M12, EN50155, EN50121</li> </ul>	<b>NEW</b> <b>QNV-6070R</b>  <small>IK10 IP66</small> <small>WISNET Q</small> <small>WiseStream</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNV-6030R</b>  <small>IK10 IP66</small> <small>WISNET Q</small> <small>WiseStream</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>NEW</b> <b>QNV-6020R</b>  <small>IK10 IP66</small> <small>WISNET Q</small> <small>WiseStream</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>
<b>NEW</b> <b>QNV-6010R</b>  <small>IK10 IP66</small> <small>WISNET Q</small> <small>WiseStream</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Triple Codec H.265/H.264/MJPEG</li> <li>• 2.8mm Fixed Lens</li> <li>• Wide Dynamic Range 120dB</li> <li>• Hallway View, Defocus Detection, LDC</li> <li>• True Day &amp; Night, Built-in IR</li> <li>• IP66/IK10</li> </ul>	<b>SNV-L6083R</b>  <small>IK10 IP66</small> <small>WISNET Lite</small> <b>2MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 4.3x Vari-focal Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> <li>• IP66/IK10</li> </ul>	<b>SNV-L6013R</b>  <small>IK10 IP66</small> <small>WISNET Lite</small> <b>2MP IR Mini Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> <li>• IP66/IK10/EN50155/EN50121</li> </ul>	<b>SNV-L6014RM</b>  <small>IK10 IP66</small> <small>WISNET Lite</small> <b>2MP IR Mobile Vandal Dome</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 3.6mm Fixed Lens</li> <li>• Motion Detection, Tampering</li> <li>• Built-in IR</li> <li>• Hallway View, LDC</li> <li>• Built-in Mic</li> <li>• IP66/IK10/M12/EN50155/EN50121</li> </ul>	<b>SNP-6320/6320H</b>  <small>IK10 IP66</small> <small>WISNET III plus</small> <b>2MP 32x Indoor/Outdoor PTZ</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Code H.264/MJPEG</li> <li>• 32x Optical Zoom</li> <li>• On-board Analytics</li> <li>• Auto Tracking</li> <li>• Wide Dynamic Range 120dB</li> <li>• Bi-directional Audio Support</li> <li>• SNP-6320H: IK10/IP66</li> </ul>
<b>SNP-6320RH</b>  <small>IK10 IP66</small> <small>WISNET III plus</small> <b>2MP 32x Outdoor IR PTZ</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 32x Optical Zoom</li> <li>• IR Distance 493ft</li> <li>• Wide Dynamic Range (120dB)</li> <li>• Digital Image Stabilization</li> <li>• On-board Analytics</li> <li>• Auto Tracking</li> <li>• IP66/IK10</li> </ul>	<b>SNP-6321/6321H</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>2MP 32x Indoor/Outdoor PTZ</b> <ul style="list-style-type: none"> <li>• 1080p @ 60fps</li> <li>• Dual Code H.264/MJPEG</li> <li>• 32x Optical Zoom</li> <li>• On-board Analytics</li> <li>• Wide Dynamic Range 120dB</li> <li>• Bi-directional Audio Support</li> <li>• SNP-6321H: IK10/IP66</li> </ul>	<b>SNP-L6233/6233H</b>  <small>IK10 IP66</small> <small>WISNET Lite</small> <b>2MP 23x Indoor/Outdoor PTZ</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Code H.264/MJPEG</li> <li>• 23x Optical Zoom</li> <li>• On-board Analytics</li> <li>• Wide Dynamic Range 100dB</li> <li>• Bi-directional Audio Support</li> <li>• SNP-L6233H: IK10/IP66</li> </ul>	<b>SNP-L6233RH</b>  <small>IK10 IP66</small> <small>WISNET Lite</small> <b>2MP 23x Outdoor IR PTZ</b> <ul style="list-style-type: none"> <li>• 1080p @ 30fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 23x Optical Zoom</li> <li>• IR Distance 328ft</li> <li>• Wide Dynamic Range 100dB</li> <li>• Digital Image Stabilization</li> <li>• On-board Analytics</li> <li>• IP66/IK10</li> </ul>	<b>IP Kits</b> <b>SRK-3040S-1TB</b>  <b>4CH/4CAM</b> <ul style="list-style-type: none"> <li>• 1080p Full HD Recording &amp; Display</li> <li>• Plug-n-Play with Setup Wizard</li> <li>• PoE+ Switch Built-in NVR</li> <li>• ONVIF Camera Compliant</li> <li>• SND-L6013R (Qty 4), SRN-473S (NVR)</li> <li>• 1TB Hard Drive Included</li> </ul>
<b>SRK-3030S-1TB</b>  <b>4CH/3CAM (w/5MP fisheye)</b> <ul style="list-style-type: none"> <li>• 5MP Recording &amp; Display</li> <li>• Plug-n-Play with Setup Wizard</li> <li>• PoE+ Switch Built-in NVR</li> <li>• Dewarped on Camera 180/360 Panoramic View</li> <li>• ONVIF Camera Compliant</li> <li>• SND-L6013R (Qty 2), SNF-8010 (Fisheye), SRN-473S (NVR)</li> <li>• 1TB Hard Drive Included</li> </ul>	<b>SRK-4060S-2TB</b>  <b>8CH/6CAM</b> <ul style="list-style-type: none"> <li>• 1080p Full HD Recording &amp; Display</li> <li>• Plug-n-Play with Setup Wizard</li> <li>• PoE+ Switch Built-in NVR</li> <li>• ONVIF Camera Compliant</li> <li>• SND-L6013R (Qty 6), SRN-873S (NVR)</li> <li>• 2TB Hard Drive Included</li> </ul>	<b>SRK-5120S-3TB</b>  <b>16CH/12CAM</b> <ul style="list-style-type: none"> <li>• 1080p Full HD Recording &amp; Display</li> <li>• Plug-n-Play with Setup Wizard</li> <li>• PoE+ Switch Built-in NVR</li> <li>• ONVIF Camera Compliant</li> <li>• SND-L6013R (Qty 12), SRN-1673S (NVR)</li> <li>• 3TB Hard Drive Included</li> </ul>	<b>1.3MP</b> <b>SNB-5004</b>  <small>WISNET III</small> <b>1.3MP Box</b> <ul style="list-style-type: none"> <li>• 1.3MP @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• Simple Focus, P-Iris</li> <li>• Wide Dynamic Range 130dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> </ul>	<b>SNO-5084R</b>  <small>IK10 IP66</small> <small>WISNET III</small> <b>1.3MP IR Bullet</b> <ul style="list-style-type: none"> <li>• 1.3MP @ 60fps</li> <li>• Dual Codec H.264/MJPEG</li> <li>• 2.8x Motorized Vari-focal Lens</li> <li>• Wide Dynamic Range 130dB</li> <li>• On-board Analytics</li> <li>• Digital Image Stabilization</li> <li>• IK10/IP66</li> </ul>



<b>SNO-L5083R</b>  <b>1.3MP IR Bullet</b> <ul style="list-style-type: none"> <li>1.3MP @ 30fps</li> <li>Dual Codec H.264/MJPEG</li> <li>4.3x Vari-focal Lens</li> <li>Motion Detection, Tampering</li> <li>IR Viewable Length 65ft</li> <li>Hallway View, LDC</li> <li>IK10/IP66</li> </ul>	<b>SND-5084/5084R</b>  <b>1.3MP Dome/IR</b> <ul style="list-style-type: none"> <li>1.3MP @ 60fps</li> <li>Dual Codec H.264/MJPEG</li> <li>2.8x Motorized Vari-focal Lens</li> <li>Wide Dynamic Range 130dB</li> <li>Built-in IR (SND-5084R)</li> <li>On-board Analytics</li> <li>Digital Image Stabilization</li> <li>IK08 (SND-5084R)</li> </ul>	<b>SND-L5083R</b>  <b>1.3MP IR Dome</b> <ul style="list-style-type: none"> <li>1.3MP @ 30fps</li> <li>Dual Codec H.264/MJPEG</li> <li>4.3x Vari-focal Lens</li> <li>Motion Detection, Tampering</li> <li>Built-in IR</li> <li>Hallway View, LDC</li> </ul>	<b>SND-L5013</b>  <b>1.3MP Dome</b> <ul style="list-style-type: none"> <li>1.3MP @ 30fps</li> <li>Dual Codec H.264/MJPEG</li> <li>3.6mm Fixed Lens</li> <li>Motion Detection, Tampering</li> <li>Hallway View, LDC</li> </ul>	<b>SNV-5084/5084R</b>  <b>1.3MP Vandal Dome/IR</b> <ul style="list-style-type: none"> <li>1.3MP @ 60fps</li> <li>Dual Codec H.264/MJPEG</li> <li>2.8x Motorized Vari-focal Lens</li> <li>Wide Dynamic Range 130dB</li> <li>Built-in IR (SNV-5084R)</li> <li>On-board Analytics</li> <li>Digital Image Stabilization</li> <li>IK10/IP66</li> </ul>
<b>SNV-L5083R</b>  <b>1.3MP IR Vandal Dome</b> <ul style="list-style-type: none"> <li>1.3MP @ 30fps</li> <li>Dual Codec H.264/MJPEG</li> <li>4.3x Vari-focal Lens</li> <li>Motion Detection, Tampering</li> <li>Built-in IR</li> <li>Hallway View, LDC</li> <li>IP66/IK10</li> </ul>	<b>SNP-5321/5321H</b>  <b>1.3MP 32x PTZ</b> <ul style="list-style-type: none"> <li>1.3MP @ 60fps</li> <li>Dual Code H.264/MJPEG</li> <li>32x Optical Zoom</li> <li>On-board Analytics</li> <li>Wide Dynamic Range 120dB</li> <li>Bi-directional Audio Support</li> <li>SNP-5321H: IK10/IP66</li> </ul>	<b>SNP-L5233H/L5233</b>  <b>1.3MP 23x PTZ</b> <ul style="list-style-type: none"> <li>1.3MP @ 30fps</li> <li>Dual Code H.264/MJPEG</li> <li>23x Optical Zoom</li> <li>On-board Analytics</li> <li>Wide Dynamic Range 100dB</li> <li>Bi-directional Audio Support</li> <li>SNP-L5233H: IK10/IP66</li> </ul>	<b>SNP-5430/5430H</b>  <b>1.3MP 43x PTZ</b> <ul style="list-style-type: none"> <li>1.3MP @ 60fps</li> <li>Dual Code H.264/MJPEG</li> <li>43x Optical Zoom</li> <li>On-board Analytics</li> <li>Auto Tracking</li> <li>Wide Dynamic Range 120dB</li> <li>Bi-directional Audio Support</li> <li>SNP-5430H: IK10/IP66</li> </ul>	<b>NVRs</b> <b>PRN-4011</b>  <b>64CH 4K 400Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 64CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 12 Hot-Swap HDDs (RAID 5/6)</li> <li>HDMI/VGA Local Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>iSCSI Storage Supported</li> <li>ONVIF Camera Compliant</li> </ul>
<b>XRN-3010</b>  <b>64CH 4K 300Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 64CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 8 HDD</li> <li>HDMI/VGA Local Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>iSCSI Storage Supported</li> <li>Redundant Hot-Swap Power</li> <li>ONVIF Camera Compliant</li> </ul>	<b>SRN-4000</b>  <b>64CH 400Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 64CH @ 12MP Each</li> <li>Supports H.264/MJPEG</li> <li>Max 12 Hot-Swap HDDs (RAID 5/6)</li> <li>HDMI/VGA Local Monitor</li> <li>iSCSI Storage Supported</li> <li>Redundant Hot-Swap Power</li> <li>ONVIF Camera Compliant</li> </ul>	<b>XRN-2011</b>  <b>32CH 4K 256Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 32CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 8 Hot-Swap HDDs (RAID 5)</li> <li>HDMI/VGA Local Dual Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>iSCSI Storage Supported</li> <li>ONVIF Camera Compliant</li> </ul>	<b>XRN-2010</b>  <b>32CH 4K 256Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 32CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 8 HDDs</li> <li>HDMI/VGA Local Dual Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>iSCSI Storage Supported</li> <li>ONVIF Camera Compliant</li> </ul>	<b>XRN-1610S</b>  <b>16CH 4K 180Mbps PoE NVR</b> <ul style="list-style-type: none"> <li>Up to 16CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 4 HDDs</li> <li>HDMI/VGA Local Dual Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>16 PoE/PoE+ Ports</li> <li>ONVIF Camera Compliant</li> </ul>
<b>XRN-1610</b>  <b>16CH 4K 180Mbps NVR</b> <ul style="list-style-type: none"> <li>Up to 16CH @ 12MP Each</li> <li>Supports H.265/H.264/MJPEG</li> <li>Max 8 HDDs</li> <li>HDMI/VGA Local Dual Monitor</li> <li>HDMI up to UHD (4K) Resolution</li> <li>ONVIF Camera Compliant</li> </ul>	<b>SRN-1673S</b>  <b>16CH 80Mbps PoE NVR</b> <ul style="list-style-type: none"> <li>Up to 16CH @ 8MP Each</li> <li>Supports H.264/MJPEG</li> <li>Max 4 HDDs</li> <li>HDMI/VGA Local Monitor</li> <li>16 PoE/PoE+ Ports</li> <li>ONVIF Camera Compliant</li> </ul>	<b>SRN-873S</b>  <b>8CH 64Mbps PoE NVR</b> <ul style="list-style-type: none"> <li>Up to 8CH @ 8MP Each</li> <li>Supports H.264/MJPEG</li> <li>Max 2 HDDs</li> <li>HDMI/VGA Local Monitor</li> <li>8 PoE/PoE+ Ports</li> <li>ONVIF Camera Compliant</li> </ul>	<b>SRN-473S</b>  <b>4CH 32Mbps PoE NVR</b> <ul style="list-style-type: none"> <li>Up to 4CH @ 8MP Each</li> <li>Supports H.264/MJPEG</li> <li>Max 1 HDDs</li> <li>HDMI/VGA Local Monitor</li> <li>4 PoE/PoE+ Ports</li> <li>ONVIF Camera Compliant</li> </ul>	<b>SRM-872</b>  <b>8CH 64Mbps Mobile PoE NVR</b> <ul style="list-style-type: none"> <li>Up to 8CH @ 5MP Each</li> <li>Supports H.264/MJPEG</li> <li>Max 1 HDDs (2.5")</li> <li>HDMI/VGA Local Monitor</li> <li>8 PoE/PoE+ Ports</li> <li>ONVIF Camera Compliant</li> <li>GPS Supported</li> </ul>

## Encoders/Decoders

**SPD-400**  
  
**4CH Video Decoder**  

- Full HD (1080p) Video Output
- H.264, MPEG-4, MJPEG Decoding
- Single and Quad View
- Sequence Mode for Multiple Video Sources

**SPE-400B/1600R**  
  
**4CH Encoder Blades/16CH Encoder Rack**  

- 4CIF Resolution @ 30fps
- Multiple Streaming Simultaneously
- 10/100/1000BASE-T (SPE-1600R)
- 4 Slots (SPE-1600R)

**SPE-400/101/100**  
  
**4CH/1CH Video Encoder**  

- 4CIF @ 30fps
- H.264, MPEG-4, MJPEG Multiple Codec
- Multiple Streaming Simultaneously
- 10/100/1000BASE-T: SPE-400
- PoE, 10/100BASE-T: SPE-101/100
- SD Memory, Bi-directional Audio Support: SPE-400/100

## Network Software

**SmartViewer**  
  
**Central Management**  

- Simple Management Software
- Supports H.265, H.264, MPEG-4, and MJPEG Video Formats
- Up to 36 Videos Monitoring
- Full Screen Mode, Sequence Mode
- Up to 16 Videos Simultaneous Playback

**SSM**  
  
**Central Management Software**  

- Supports H.265, H.264, MPEG-4, & MJPEG Video Formats
- Multi-site Monitoring, Multi-client Connection
- Live/Map Monitoring & Playback Viewer Simultaneously



**SSM-VM00/10L/20L**

**SSM Virtual Matrix  
Add-on Module for SSM**

- Monitor Layout (4:3, 16:9, Full Screen Mode -100 Channel) Supported
- Split Layout Supported
- Wall OSD On/Off Supported
- Event Salvo Switching
- Controls 16/36 Monitors (VM10L/20L)
- VM00: Free for SPD-400

**SSM-RS00/10L/20L/30L:  
16CH/36CH/72CH/128CH**

**SSM Recording Server**

- Works with SSM
- RS00: 16CH Free
- RS10/20/30: 36CH/72CH/128CH
- 400Mbps Recording Throughput
- ONVIF Compatible (Only on SSM-RS10/20/30)

**SSM mobile**

**Mobile Client for SSM**

- View Layout/Device List by User
- View Live Streaming Video with PTZ Control
- H.265/H.264/MJPEG
- Video Image Flip/Mirror, Video Image Capture
- Quick & Easy Access at Mobile, WIFI Networks

**iPOLiS mobile**

**Mobile viewer for Android/iOS**

- Smartphone App for Samsung Network Device Monitoring
- View Live Streaming Video with PTZ Control
- H.265, H.264, MJPEG
- Video Image Flip/Mirror, Video Image Capture
- Calendar Search/Playback/Bookmark Functions for DVRs/NVRs

**WiseNet HD+**
**SCB-6003**

WISNET HD+
**2MP Analog Box**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Dual Power, RS-485

**SCO-6083R**

IK10 IP66 WISNET HD+
**2MP Analog IR Bullet**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4.3x Vari-focal Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- IP66/IK10/ Dual Power

**SCO-6023R**

IP66 WISNET HD+
**2MP Analog IR Bullet**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4mm Fixed Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- IP66/12VDC Only

**SCD-6083R**

WISNET HD+
**2MP Analog IR Dome**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4.3x Vari-focal Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- Dual Power

**SCD-6023R**

WISNET HD+
**2MP Analog IR Dome**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4mm Fixed Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- 12VDC Only

**SCV-6083R**

IK10 IP66 WISNET HD+
**2MP Analog IR Vandal Dome**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4.3x Vari-focal Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- IK10, IP66, Dual Power

**SCV-6023R**

IK10 IP66 WISNET HD+
**2MP Analog IR Vandal Dome**

- 1080p @ AHD (Default)
- Composite Video Output (Switchable)
- 4mm Fixed Lens
- Day & Night (ICR), DWDR, SSNRIV, Motion Detection
- Built-in IR
- IP66/IK10/12VDC Only

**HCP-6320**

NEW
**2MP 32x Analog Indoor PTZ**

- 1080p @ AHD
- Composite Video Output (Switchable)
- 32x Optical Zoom
- Wide Dynamic Range 120dB

**HCP-6320H**

NEW
**2MP 32x Analog Outdoor PTZ**

- 1080p @ AHD
- Composite Video Output (Switchable)
- 32x Optical Zoom
- Wide Dynamic Range 120dB
- IK10, IP66

**1280H (1,000TVL)**
**SCB-5000/5003/5005**

BEYOND
**1280H Box**

- 1,000TV Lines High Resolution
- 0.03Lux@F1.2, 50IRE, 0.01Lux@F1.2, 30IRE
- SCB-5003/5005: Wide Dynamic Range 120dB
- SSDR, Defog
- Simple Focus (SCB-5005)
- Over Coax Control

**SCO-5083R**

IK10 IP66 BEYOND
**1280H IR Bullet**

- 1,000TV lines High Resolution
- Wide Dynamic Range 120dB
- SSDR SSNRIV, Defog
- Over Coax Control
- IK10, IP66

**SCD-5083/5082**

BEYOND
**1280H Dome**

- 1000TV Lines High Resolution
- SCD-5083: Wide Dynamic Range 120dB
- SSDR SSNRIV, Defog
- Over Coax Control
- Black Version Available (SCD-5083B)

**SCD-5080**

BEYOND
**1280H Dome**

- 1000TV Lines High Resolution
- SSDR SSNRIV, Defog
- Over Coax Control

**SCD-5083R**

BEYOND
**1280H IR Dome**

- 1,000TV Lines High Resolution
- 0.03Lux@F1.2, 50IRE (Color), 0.01Lux@F1.2, 30IRE (Color), 0Lux (IR LED on) (B/W)
- 2.8x Vari-focal Lens
- Wide Dynamic Range 120dB, Day & Night (ICR)
- Over Coax Control

**SCV-5085**

IK10 IP66 BEYOND
**1280H Vandal Dome**

- 1000TV lines high resolution
- 0.03Lux@F1.2, 50IRE (Color), 0.003Lux@F1.2 50IRE (B/W)
- 2.8x Simple Focus
- Wide Dynamic Range 120dB
- Over Coax Control
- IK10, IP66

**SCV-5083/SCV-5082**

IK10 IP66 BEYOND
**1280H Vandal Dome**

- 1000TV lines high resolution
- SCV-5083: Wide Dynamic Range 120dB
- SSDR SSNRIV, Defog
- Coaxial Communication
- IK10, IP66

**SCV-5083R**

IK10 IP66 BEYOND
**1280H IR Vandal Dome**

- 1,000TV Lines High Resolution
- 0.03Lux@F1.2, 50IRE (Color), 0.01Lux@F1.2, 30IRE (Color), 0Lux (IR LED on) (B/W)
- 2.8x Vari-focal Lens
- Wide Dynamic Range 120dB
- Defog
- Over Coax Control
- IK10, IP66

**960H (700TVL)**
**SCB-3003/3001**

**700TV Lines Box**

- 700TVL (Color), 700TVL (B/W): SCB-3003
- 650TVL (Color), 700TVL (B/W): SCB-3001
- 0.1Lux@F1.2 (Color), 0.01Lux (B/W)
- Wide Dynamic Range, Virtual Progressive Scan, Day & Night (ICR), Intelligent video
- Simple Focus (SCB-3003)
- Over Coax Control

**SCB-2000/2005**

**700TV Lines Box**

- 600TVL, Electronic D/N: SCB-2000
- 700TVL, True D/N: SCB-2005
- BLC/HLC
- Over Coax Control

**SCZ-2373**

**680TV Lines, 37x Zoom Box**



















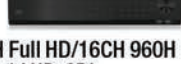






- 680TVL (Color)
- Min. 0.2Lux @ F1.6 (Color), 0.01Lux (B/W)
- Over Coax Control, RS-485

**SCZ-2273**

**680TV Lines, 27x Zoom Box**

- 680TVL (Color)
- Min. 0.2Lux @ F1.6 (Color), 0.01Lux (B/W)
- Over Coax Control, RS-485



<b>SCD-3083</b>  <b>700TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 700TVL (Color)</li> <li>• Min. 0.1Lux @ F1.2 (Color), 0.01Lux (B/W)</li> <li>• 3.6x Simple Focus</li> <li>• Wide Dynamic Range</li> <li>• Analytics</li> <li>• Over Coax Control</li> </ul>	<b>SCD-2082</b>  <b>700TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 700TVL (Color), 650TVL (B/W)</li> <li>• Min. 0.1Lux @ F1.2 (Color)</li> <li>• 3.6x Vari-focal Lens;</li> <li>• Motion Detection</li> <li>• Over Coax Control</li> </ul>	<b>SCD-2021/2022</b>  <b>700TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 600TVL Electronic D/N (SCD-2021)</li> <li>• 700TVL Electronic D/N (SCD-2022)</li> <li>• BLC/HLC</li> <li>• Over Coax Control</li> </ul>	<b>SCD-2042R/2022R</b>  <b>700TV Lines IR Dome</b> <ul style="list-style-type: none"> <li>• 700TVL (Color)</li> <li>• IR distance 23ft</li> <li>• SCD-2022R: 3.8mm Fixed Lens;</li> <li>• SCD-2042R: 8mm Fixed Lens</li> <li>• Motion Detection</li> <li>• Over Coax Control</li> </ul>	<b>SCV-3083</b>  <b>700TV Lines Vandal Dome</b> <ul style="list-style-type: none"> <li>• 700TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.1Lux@F1.2 (Color), 0.01Lux (B/W)</li> <li>• 3.6x Simple Focus</li> <li>• Virtual Progressive Scan, Day &amp; Night (ICR), Analytics</li> <li>• SSNRIII, Over Coax Control</li> <li>• IK10/IP66</li> </ul>
<b>SCP-2373</b>  <b>680TV Lines, 37x PTZ</b> <ul style="list-style-type: none"> <li>• 680TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.2Lux@F1.6 (Color), 0.02Lux (B/W)</li> <li>• Day &amp; Night (ICR), SSNRIII</li> <li>• Over Coax Control</li> </ul>	<b>SCP-2273/2273H</b>  <b>680TV Lines, 27x PTZ</b> <ul style="list-style-type: none"> <li>• 680TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.2Lux@F1.6 (Color), 0.02Lux (B/W)</li> <li>• 27x Zoom, Digital 16x</li> <li>• Day &amp; Night (ICR), SSNRIII</li> <li>• Over Coax Control</li> <li>• IK10/IP66 (SCP-2273H)</li> </ul>	<b>D1 (600TVL)</b> <b>SCZ-3250/2250</b>  <b>600TV Lines, 25x Zoom</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.2Lux@F1.65 (Color), 0.02Lux (B/W)</li> <li>• SCZ-3250: Wide Dynamic Range</li> <li>• Day &amp; Night (ICR), Analytics</li> <li>• Over Coax Control, RS-485</li> </ul>	<b>SCD-3080/2080</b>  <b>600TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• SCD-3080: Min. 0.3Lux @ F1.2 (Color), 0.01Lux (B/W); SCD-2080: Min. 0.15Lux @ F1.2 (Color), 0.001Lux (B/W)</li> <li>• 3.9x (SCD-3080)/3.6x (SCD-2080) Vari-focal Lens</li> <li>• Wide Dynamic Range (SCD-3080)</li> <li>• Over Coax Control</li> </ul>	<b>SCD-2080E</b>  <b>600TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.15Lux@F1.2 (Color)</li> <li>• 3.6x Vari-focal Lens</li> <li>• Motion Detection</li> <li>• Over Coax Control</li> </ul>
<b>SCD-2010</b>  <b>600TV Lines Dome</b> <ul style="list-style-type: none"> <li>• 600TV lines</li> <li>• Min. 0.04Lux @ F1.2</li> <li>• 3mm Fixed Lens</li> <li>• Over Coax Control</li> </ul>	<b>SCV-2080R</b>  <b>600TV Lines, Vandal IR Dome</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• Built-in IR</li> <li>• 3.6x (2.8~10mm) Vari-focal Lens</li> <li>• Motion Detection</li> <li>• Over Coax Control</li> <li>• IK10, IP66</li> </ul>	<b>SCP-3120VH</b>  <b>600TV Lines, 12x PTZ</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.7Lux @ F1.65 (Color), 0.07Lux (B/W)</li> <li>• Wide Dynamic Range</li> <li>• Analytics</li> <li>• RS-485</li> <li>• Heater</li> <li>• IK10, IP66</li> </ul>	<b>SCP-2120</b>  <b>600TV Lines, 12x PTZ</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• Min. 0.2Lux @ F1.67 (Color), 0.004Lux (B/W)</li> <li>• Motion Detection</li> <li>• Over Coax Control, RS-485</li> </ul>	<b>SCP-2370RH</b>  <b>600TV Lines, 37x IR PTZ</b> <ul style="list-style-type: none"> <li>• 600TVL (Color), 700TVL (B/W)</li> <li>• IR Distance 328ft</li> <li>• Motion Detection</li> <li>• Over Coax Control, RS-485/422</li> <li>• Smart IR</li> <li>• IK10, IP66</li> </ul>
<b>DVRs</b> <b>SRD-1694</b>  <b>WISNET HD*</b> <b>16CH 1080p Analog HD DVR</b> <ul style="list-style-type: none"> <li>• 16CH Video/Audio Inputs/ 1CH Audio Output</li> <li>• Up to 480 (1080p)/fps Recording Rate</li> <li>• Max. 8 Internal HDDs</li> <li>• HDMI/VGA Video Output</li> <li>• Enhanced Network Bandwidth up to 64Mbps</li> <li>• 1640ft Coax Transmission</li> </ul>	<b>SRD-1685</b>  <b>WISNET HD*</b> <b>16CH 1080p Analog HD DVR</b> <ul style="list-style-type: none"> <li>• 16CH Video/Audio Inputs/ 1CH Audio Output</li> <li>• Up to 240 (1080p)/fps Recording Rate</li> <li>• Max. 4 Internal HDDs</li> <li>• HDMI/VGA Video Output</li> <li>• Enhanced Network Bandwidth up to 64Mbps</li> <li>• 1640ft Coax Transmission</li> </ul>	<b>SRD-1684</b>  <b>WISNET HD*</b> <b>16CH 1080p Analog HD DVR</b> <ul style="list-style-type: none"> <li>• 16CH Video Inputs/1CH Audio Output</li> <li>• Up to 480 (1080p)/fps Recording Rate</li> <li>• Max. 1 Internal HDDs</li> <li>• HDMI / VGA Video Output</li> <li>• Enhanced Network Bandwidth up to 32Mbps</li> <li>• 656ft Coax Transmission</li> </ul>	<b>SRD-1680D</b>  <b>8CH Full HD/16CH 960H Hybrid HD-SDI</b> <ul style="list-style-type: none"> <li>• 16CH 700TV lines / 8CH Full HD 1080p Real-time Recording</li> <li>• Max. 4 Internal HDDs</li> <li>• Full HD, VGA/HDMI Video Output</li> <li>• HDD Removable (Easy Install)</li> <li>• Smart Searching, Tampering Support</li> <li>• Up to 64Mbps Network Bandwidth</li> </ul>	<b>SRD-1676D</b>  <b>16CH 1280H Real-time</b> <ul style="list-style-type: none"> <li>• 16CH 1280H Real-time DVR</li> <li>• Up to 480fps Recording Rate</li> <li>• Full HD, VGA/HDMI Video Output</li> <li>• Max. 4 Internal HDDs</li> <li>• Video Loophrough</li> <li>• Set Independently for Each Channel- REC/Quality/Resolution</li> <li>• Digital Video Spot (2ea), USB (2ports) backup</li> </ul>
<b>SRD-1642</b>  <b>16CH 960H Real-time</b> <ul style="list-style-type: none"> <li>• 16CH 960H Real-time DVR</li> <li>• Up to 480fps Recording Rate</li> <li>• Max. 2 Internal HDDs</li> <li>• Easy user interface, Common Across all Samsung DVRs</li> <li>• Set Independently for Each Channel</li> </ul>	<b>SRD-894</b>  <b>WISNET HD*</b> <b>8CH 1080p Analog HD DVR</b> <ul style="list-style-type: none"> <li>• 8CH video/Audio Inputs/ 1CH Audio Output</li> <li>• Up to 240 (1080p)/fps Recording Rate</li> <li>• Max. 4 Internal HDDs</li> <li>• HDMI/VGA Video Output</li> <li>• Enhanced Network Bandwidth up to 64Mbps</li> <li>• 1640ft Coax Transmission</li> </ul>	<b>SRD-893</b>  <b>WISNET HD*</b> <b>8CH 1080p Analog HD DVR</b> <ul style="list-style-type: none"> <li>• 8CH Video Inputs/ 1CH Audio Output</li> <li>• Up to 240 (1080p)/fps Recording Rate</li> <li>• Max. 1 Internal HDDs</li> <li>• HDMI/VGA Video Output</li> <li>• Enhanced Network Bandwidth up to 32Mbps</li> <li>• 656ft Coax Transmission</li> </ul>	<b>SRD-880D</b>  <b>8CH Full HD-SDI</b> <ul style="list-style-type: none"> <li>• 8CH Full HD 1080p Real-time Recording</li> <li>• Up to 240fps Recording Rate</li> <li>• Max. 4 Internal HDDs</li> <li>• Touch Interface Front Panel</li> <li>• DVD-RW, Smart Phone Support</li> <li>• Up to 64Mbps Network Bandwidth</li> </ul>	<b>SRD-873D</b>  <b>8CH 960H/D1 Real-time</b> <ul style="list-style-type: none"> <li>• 8CH Video/Audio Inputs/ 1CH Audio Output</li> <li>• Up to 240fps Recording Rate</li> <li>• Max. 4 Internal HDDs</li> <li>• DVD-RW</li> </ul>



**SRD-854D**

**8CH CIF Real-time**

- 8CH Video Inputs
- Up to 240fps Recording Rate
- Max. 4 Internal HDDs
- Full HD 1080p Video Out Via HDMI
- 4CH Audio Inputs/1CH Audio Output
- DVD-RW
- Touch Interface Front Panel

**SRD-850DC**

**8CH CIF Real-time**

- 8CH Video Inputs
- Up to 240fps Recording Rate
- Max. 5 Internal HDDs
- 8CH Audio Inputs/1CH Audio Output
- DVD-RW

**SRD-842**

**8CH 960H Real-time**

- 8CH Video Inputs
- Up to 480fps Recording Rate
- Easy User Interface, Common Across All Samsung DVRs - GUI/Search/Back Up/ Set-Up
- Set Independently for Each Channel - REC/Quality/Resolution
- Privacy Mask Support Each Channel

**SRD-840**

**8CH CIF Real-time**

- 8CH Video Inputs
- Up to 240 (NTSC) fps Recording Rate
- Internal Max. HDD x 1
- Compact Product Footprint

**SRD-494**

WISENET HD+
**4CH 1080p Analog HD DVR**

- 4CH Video/Audio Inputs/1CH Audio Output
- Up to 120 (1080p)fps Recording Rate
- Max. 4 Internal HDDs
- HDMI/VGA Video Output
- Enhanced Network Bandwidth up to 64Mbps
- 1640ft Coax Transmission

**SRD-493**

WISENET HD+
**4CH 1080p Analog HD DVR**

- 4CH Video Inputs/1CH Audio Output
- Up to 120(1080p)fps Recording Rate
- Max. 1 Internal HDDs
- HDMI/VGA Video Output
- Enhanced Network Bandwidth up to 32Mbps
- 656ft coax transmission

**SRD-476D**

**4CH 1280H Real-time**

- 4CH 1280H Real-Time DVR
- Up to 120fps Recording Rate
- Max. 1 Internal HDDs
- Video Loophthrough
- Video Spot (Analog 1ea, Digital 1ea), USB (2 Ports) Backup

**SRD-473D**

**4CH 960H Real-time**

- 4CH Video Inputs 960H Real-Time DVR
- Max. Resolution of 960x480/960x576
- Smart Phone Support (Android/iOS)
- Full HD 1080p Video Out Via HDMI
- Smart Searching, Tampering Detection
- Enhanced Network Bandwidth up to 32Mbps

**SRD-470D**

**4CH 4CIF Real-time**

- 4CH Video Inputs
- 4CIF Resolution Real-Time Recording Capability
- Max. 1 Internal HDDs
- DVD-RW

**SVS-5S/5E**

**RAID 5 Unit /HDD Extension Unit**

- 1U 19-inch Rack Case
- Data Transmission Speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD : Up to 4TB
- Can be Cascaded up to 4 SVS-5S

**Controllers**
**SPC-2000**

**Network Controller**

- Superior System Compatibility
- 3D joystick Control
- Quick & Easy Installation
- Supports SSM, SmartViewer, NVRs, Net-i Viewer

**SPC-7000**

**IP System Control Keyboard**

- 5" TFT touch LCD
- Control IP Cameras/SSM/NVR/DVR
- Up to 255 Units with a Single Controller
- Connect to a System up to 16 Controllers
- Image Snapshot
- Camera/Video Wall/Recorder Control

**SPC-6000**

**System Control Keyboard**

- 5" TFT touch LCD
- Control PTZ Dome Cameras, DVRs & Matrix Switchers
- Up to 255 Units with a Single Controller
- Connect to a System up to 16 Controllers

**SPC-2010**

**PTZ/DVR System**

- Control up to 255 PTZ Cameras/DVRs
- Built-in 3 Axis Twist Zoom Joystick
- Built-in Jog Shuttle
- 16 x 2 Character LCD Display
- RS-485 & RS-422 Interface

**SPC-1010**

**PTZ Control Keyboard**

- Control up to 255 PTZ Cameras
- Multi Protocols Supports
- OSD Menu, 3D Joystick Control
- RS-485 & RS-422 Interface

**Monitors**
**SMT-4933**

**49" 4K LED Monitor**

- Support up to 4096x 2160 Resolution
- Excellent Picture Quality with LED Back Light
- Video Input : HDMI/VGA/DVI

**SMT-4032A**

**40" 1080p LED Monitor**

- Support up to 1920 x 1080 Resolution
- Fast Response Time 8ms
- High Contrast Ratio 5000 : 1
- Excellent Picture Quality with LED Back Light
- Video Input : HDMI/DVI/VGA/Component

**SMT-3232A**

**32" 1080p LED Monitor**

- Support up to 1920 x 1080 Resolution
- Fast Response Time 8ms
- High Contrast ratio 5000 : 1
- Excellent Picture Quality with LED Back Light
- Video Input : HDMI/DVI/VGA/Component

**SMT-2730**

**27" 1080p LED Monitor**

- Support up to 1920 x 1080 Resolution
- Contrast Ratio 1,000 : 1
- Excellent Picture Quality with LED Back Light
- Video Output : HDMI, VGA, Composite

**SMT-2233**

**22" 1080p LED Monitor**

- Support up to 1920 x 1080 Resolution
- Contrast Ratio 1,000 : 1
- Excellent Picture Quality with LED Back Light
- Video Output : HDMI, VGA, Composite

**SMT-1935**

**19" LED Monitor**

- Support up to 1280 x 1024 Resolution
- High Contrast Ratio 1000 : 1
- Fast Response Time 5ms
- Video Output : HDMI, VGA, Composite

**SMT-1931**

**19" LED Monitor**

- Support up to 1366 x 768 Resolution
- High Contrast Ratio 1,000 : 1
- Fast Response Time 5ms
- 120Hz Motion Technology

**Lenses**
**SLA-E-M1240DN**

**6MP Day/Night Vari-focal 1/2"**

- Design for 6MP CS Mount Surveillance Box Camera
- Full Glass Optical Composition with Metal Body
- 12-40mm /F1.8
- IR Corrected
- DC Auto Iris

**SLA-F-M419DN**

**6MP Day/Night Vari-focal 1/1.8"**

- Design for 6MP CS Mount Surveillance Box Camera
- Superior Low Light Performance
- 4.1-9mm /F1.6
- IR Corrected
- DC Auto Iris

**SLA-F-M1550DN**

**3MP Day/Night Vari-focal 1/2.7"**

- f15-50mm / F1.5
- F1.0/F1.3/F1.3 DC Type Auto Iris
- Auto Iris (DC type)
- ND Filter
- Aspherical Lens
- RoHS Compliant

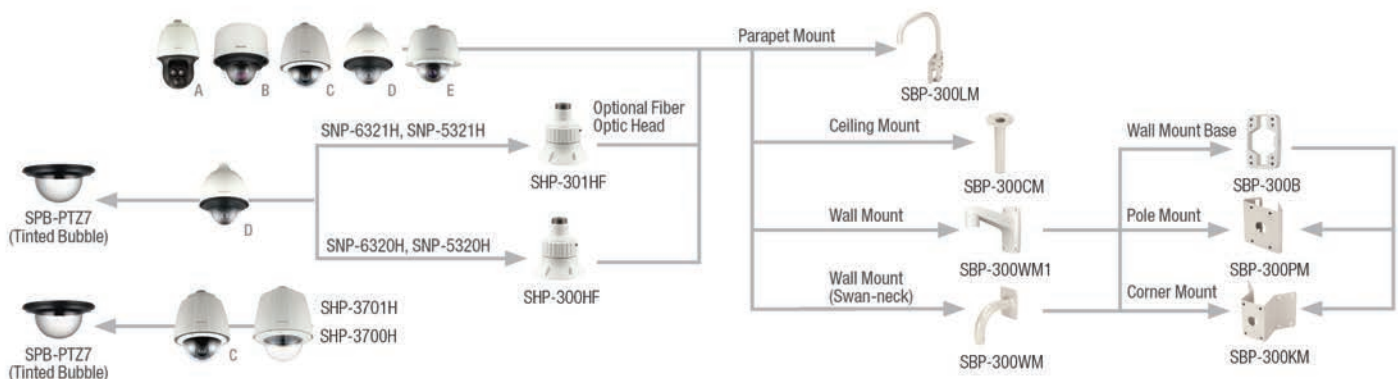


## Lenses

<p><b>SLA-F-M226DN</b></p>  <p><b>3MP Day/Night Vari-focal 1/2.7"</b></p> <ul style="list-style-type: none"><li>• SLA-F-M266DN: f2.2-6mm / F1.3</li><li>• F1.0/F1.3/F1.3 DC Type Auto Iris</li><li>• Auto Iris (DC type)</li><li>• ND Filter</li><li>• Aspherical Lens</li><li>• RoHS Compliant</li></ul>	<p><b>SLA-M-M21D/M36D/60D</b></p>  <p><b>MegaPixel Fixed Lens</b></p> <ul style="list-style-type: none"><li>• SLA-M-M21D: Super Wide Angle f2.1mm; SLA-M-M36D: f3.6mm; SLA-M-M60D: f6.0mm</li><li>• High Quality Megapixel Resolution</li><li>• SLA-M-M21D: Compatible with SNV-6013, SNV-6012M; SLA-M-M36D/60D: Compatible with SNV-6013</li></ul>	<p><b>SLA-3580DN/2812DN</b></p>  <p><b>CS-mount Auto Iris Lens</b></p> <ul style="list-style-type: none"><li>• F1.0/F1.4/F1.3/F1.6 DC Type Auto Iris</li><li>• Vari-focal Lens : (SLA-3580DN: 3.5 ~ 8mm / 0.14" ~ 0.31"; SLA-2812DN: 2.8 ~ 12mm / 0.11" ~ 0.47"</li></ul>	<p><b>SLA-M2890DN/2890PN</b></p>  <p><b>3MP 1/2.8" CS-mount Auto Iris Megapixel Lens</b></p> <ul style="list-style-type: none"><li>• F1.2 DC &amp; P-Iris Type Auto Iris</li><li>• Vari-focal 2.8 ~ 9mm / 0.11" ~ 0.35"</li></ul>	<p><b>SLA-M3180PN</b></p>  <p><b>CS-mount Auto Iris Megapixel</b></p> <ul style="list-style-type: none"><li>• F1.4/F1.2 DC Type Auto Iris</li><li>• Vari-focal Lens : 3.1 ~ 8mm / 0.12" ~ 0.31"</li><li>• P-Iris</li></ul>
<p><b>SLA-880</b></p>  <p><b>1/2" C-mount Motorized 10x Zoom Lens</b></p> <ul style="list-style-type: none"><li>• VGA resolution</li><li>• 8-80mm Motorized Zoom Lens</li><li>• F.12 Auto Iris</li></ul>	<p><b>SLA-550DV</b></p>  <p><b>1/3" CS-mount Auto Iris Lens</b></p> <ul style="list-style-type: none"><li>• 5-50mm Vari-focal Lens</li><li>• Auto Iris</li><li>• F1.3 DC Auto Iris</li></ul>			

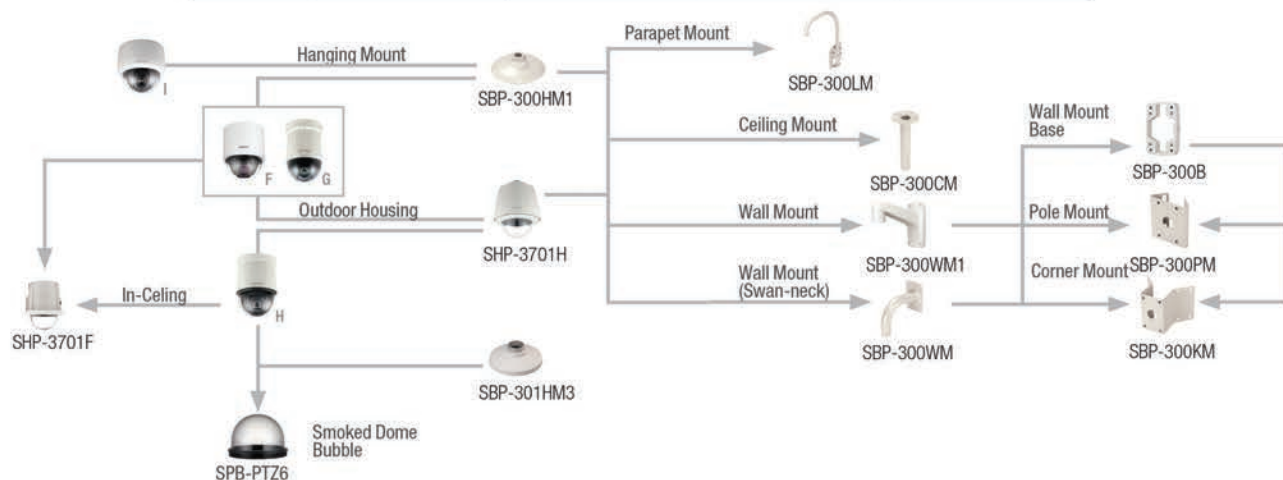
## ACCESSORIES CONFIGURATION

TYPE	OUTDOOR PTZ				
Shape					
Model	SCP-2370RH SNP-6200RH SNP-6230RH SNP-6320RH SNP-L6233RH PNP-9200RH	SCP-3430H SCP-3250H SCP-2430H SCP-2250H SCP-2251H	SCP-3370TH/3370H SCP-2370TH/2370H SCP-2330H/2270H SNP-6200H/5200H SNP-3371TH/3371H SNP-3302H/3301H SNP-3370TH SNP-6200TH	SCP-3371H/2373H SCP-2371H/2273H SCP-2271H HCP-6320H SNP-6321H/6320H SNP-6201H/5430H SNP-5321H/5320H SNP-5300H SNP-L5233H/L6233H	SCP-3120VH SNP-3120VH

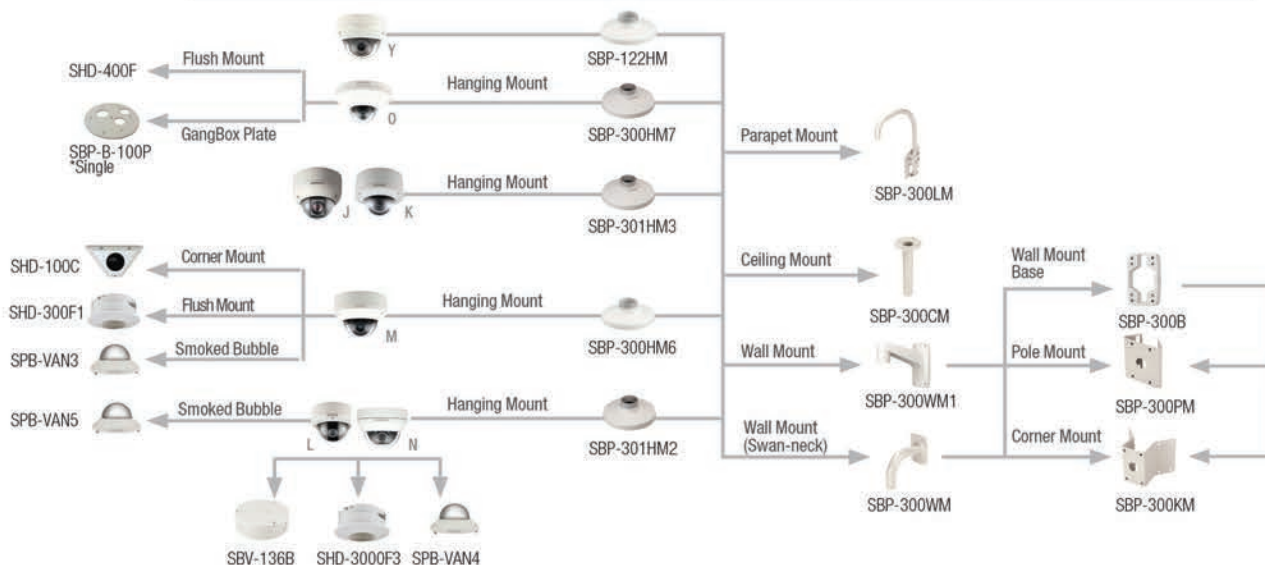




TYPE	INDOOR PTZ			
Shape				
Model	SCP-3430 SCP-3250 SCP-2430 SCP-2250	SCP-3370 SCP-2370 SCP-2330 SCP-2270 SNP-6200 SNP-5200 SNP-3371 SNP-3302	SCP-3371/2373 SCP-2371/2273 SCP-2271 HCP-6320 SNP-6321/6320 SNP-6201/5430 SNP-5321/5320 SNP-5300 SNP-L5233/L6233	SCP-3120 SCP-2120 SNP-3120

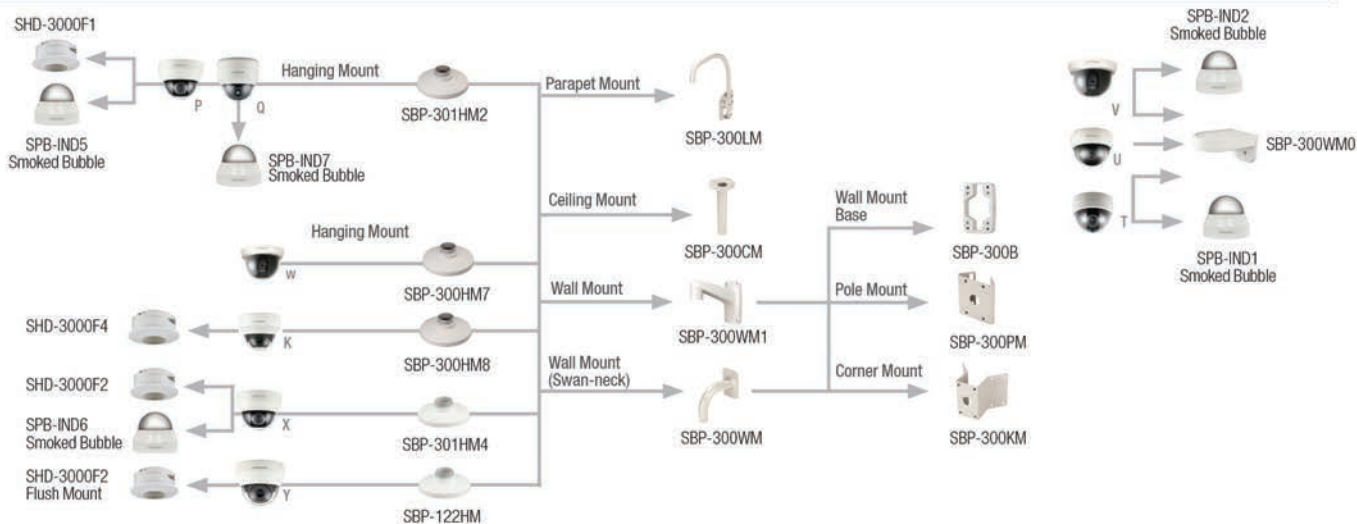


TYPE	VANDAL-RESISTANT						
Shape							
Model	SCV-2120 SCV-2080R	SCV-3120/3080 SCV-2080/2060 SNV-7082 SNV-7080R/7080 SNV-5080R/5080 SNV-3120 SNV-3082	SCV-3083 SCV-3082 SCV-3081 SCV-2082R SCV-2081R SCV-2081 SNV-1080R SNV-1080	SCV-6081R PNV-9080R SNV-8081R SNV-8080 SNV-7084R SNV-7084 SNV-7084 SNV-6085R SNV-6084R SNV-6084 SNV-5084R PNV-5084 PNV-9080R	SCV-6083R SCV-6023R SCV-5085 SCV-5083R SCV-5083 SCV-5082 SNV-L6083R SNV-L5083R QNV-7080R QNV-6070R	SNV-6013	QNV-7010R QNV-7020R QNV-7030R QNV-6010R QNV-6020R QNV-6030R

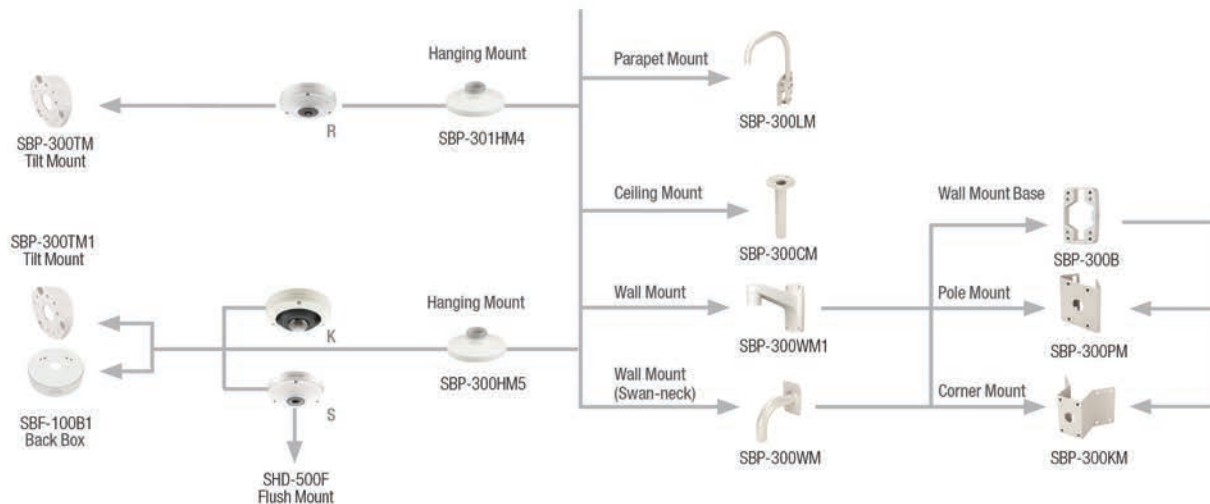




TYPE	INDOOR DOME								
Shape									
Model	SCD-6021 SCD-6081R SND-7084R SND-6084R SND-6084 SND-6083 SND-5084R SND-5084 SND-5083	SCD-6080 SND-7082 SND-5080 SND-3082	SCD-3082 SCD-3082E SCD-3081 SCD-3080 SCD-2082 SCD-2081 SCD-2080R SCD-2080E SND-7061 SND-5061 SND-1080	SCD-5030 SCD-5020 SCD-2042R SCD-2040 SCD-2022R SCD-2022 SCD-2021 SCD-2020 SND-7011 SND-5011 SND-1011 SUD-202	SUD-2010	SCD-6023R SND-L5013 SND-L6012 SND-L6013 SND-L6013R QND-7010R QND-7020R QND-7030R QND-6010R QND-6020R QND-6030R	SCD-6023R SND-L5013 SND-L6012 SND-L6013 SND-L6013R QND-7010R QND-7020R QND-7030R QND-6010R QND-6020R QND-6030R	QND-7080R QND-6070R	PND-9080R



Type	3M Fisheye	5M Fisheye	
Shape	 <b>R</b>	 <b>S</b>	 <b>K</b>
Model	SNF-7010 SNF-7010V SNF-7010VM	SNF-8010 SNF-8010VM	PNF-9010R PNF-9010RV PNF-9010RVM





## POE Ready Housings

Power over Ethernet (PoE) is a technology that allows both power and network data to transmit across standard network cabling (Cat 5e, or Cat 6). The advantages of PoE are tremendous.

### BADGER PART NUMBER:

<b>FCH11C8WY</b>	Outdoor environmental housing with feed-thru wall/pole mount, includes 100-240Vac input midspan, heater and blower, adjustable sunshield
<b>FCH11C8WQ</b>	Outdoor environmental housing with Thermiq™ Technology heat exchanger, feed-thru wall/pole mount, includes 100-240Vac input midspan, heater and blower, adjustable sunshield
<b>PFH10C8WY</b>	Pressurized tubular housing, includes 100-240Vac input midspan, heater and blower with feed-thru wall/pole mount, adjustable sunshield
<b>DFH10C8WY</b>	Dust-proof tubular housing, includes 100-240Vac input midspan, heater and blower with feed-thru wall/pole mount, adjustable sunshield
<b>SM5C8N</b>	Compact, outdoor surface-mount dome housing for PoE (.af) enabled fixed and PTZ cameras. 100-240Vac input midspan included
<b>FDW75C8N</b>	Standard outdoor, wall mount dome housing for PTZ cameras. 100-240Vac input 60 W midspan included (FDP75C8N for pendant mount applications)
<b>RHW75C8N</b>	Vandal-resistant outdoor, wall mount dome housing for PTZ cameras. 100-240Vac input 75 W midspan included (RHP75C8N for pendant mount applications)
<b>SSD75C8N</b>	Stainless steel, corrosion-resistant outdoor pendant mount dome housing for PTZ cameras. 100-240Vac input 75 W midspan included
<b>PFWD75C8N</b>	Pressurized, sealed outdoor dome housing for PTZ cameras. 100-240Vac input 75 W midspan included. Wall and pendant mount included.



FDW75C

## FUSION CAMERA HOUSING

The Fusion Camera Housing Series of environmental camera enclosures is designed to fit a multitude of rugged outdoor surveillance applications.

### BADGER PART NUMBER:

<b>FCH11CW</b>	Environmental housing with feed-thru wall/pole mount, no elector
<b>FCH11C2WY</b>	24Vac or 12Vdc input, heater/blower, adjustable sunshield
<b>FCH11C4WY</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield
<b>FCH11C4WY-MM</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant multi-mode fiber-optic transceiver
<b>FCH11C4WY-SM</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant single-mode fiber-optic transceiver
<b>FCH11C8WY</b>	PoE input, with DPA, supports IEEE802.3af cameras, 30 watt midspan included, heater/blower, adjustable sunshield



FCH

## FUSION STAINLESS STEEL DOMES

The Fusion Stainless Steel (SS) Dome is designed to protect surveillance cameras in the harshest environments while supporting crystal-clear video capture.

### BADGER PART NUMBER:

<b>SSDP75CN</b>	Stainless steel dome, pendant mount, no electronics
<b>SSDP75C2N</b>	Stainless steel dome, pendant mount, 24Vac input, heater and blower
<b>SSDP75C2NY</b>	Stainless steel dome, pendant mount, 24Vac input, heater and blower, sunshield

### PRESSURIZED MODELS

<b>PSSDP75C2N</b>	Pressurized stainless steel dome housing, pendant mount, 24Vac input, heater and blower
<b>PSSDP75C2NY</b>	Pressurized stainless steel dome housing, pendant mount, 24Vac input, sunshield, heater and blower

STAINLESS  
STEEL DOME



## EXO HD Rugged PTZ Camera Series

EXO high definition (HD) network camera systems with, H.264 full line compression, and ONVIF support are the professional's choice for capturing brilliant 1080P, full HD video in extreme applications. The EXO Series is built tough to withstand extreme temperature ranges, power surges, heavy impacts, and corrosion. Each also available with 30x optical zoom

### BADGER PART NUMBER:

<b>EXP7C2-3</b>	Pressurized 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
<b>EXSS7C2-3</b>	Corrosion Resistant, Stainless steel 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
<b>EXRH7C2-3</b>	Rugged, Vandal Resistant 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
<b>EXPD7C1-3</b>	Explosion Proof, Purge 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection



EXO-SERIES PRESSURIZED

## EXO HD Rugged Fixed Cameras

The EXO Fixed vandal resistant and pressurized High Definition (HD) Network Camera System is the professional's choice for capturing high definition video. The vandal resistant model is great for urban areas, prisons, and other high risk applications. The pressurized model is perfect for marine, coastal areas, traffic monitoring, and other areas of high contamination. Pressurized models include a schraeder valve to fill the camera with nitrogen or another clean stable gas, and a 5-7 psi pressure relief valve so that the unit cannot be over pressurized. This product is built with hardened components to withstand extreme temperature ranges, power surges and heavy impacts.

### BADGER PART NUMBER:

<b>EXVF5C-1</b>	720P, 12x optical zoom, IK10 Vandal resistant with wall / pole mount
<b>EXP5C-1</b>	720P, 12x optical zoom, IP67 Pressurized with wall / pole mount
<b>EXVF5C-2</b>	1080P, 10x optical zoom, IK10 Vandal resistant with wall / pole mount
<b>EXP5C-2</b>	1080P, 10x optical zoom, IP67 Pressurized with wall / pole mount



EXO RUGGED

## Fixed Thermal Camera

The Moog Fixed Thermal Camera System is the professional's choice for capturing infrared video. This product is built with hardened components to withstand extreme temperature ranges and power surges.

### BADGER PART NUMBER:

<b>THFD12N3-35</b>	320 x 240 Fixed IP Thermal Camera System with 35mm Lens, IP66, H.264; 12Vdc power inputs, and fast video
<b>THFD12N6-35</b>	640 x 480 Fixed IP Thermal Camera System with 35mm Lens, IP66, H.264; 12Vdc power inputs, and fast video
<b>THFD12A3-35</b>	320 x 240 Fixed Analog Thermal Camera System with 35mm Lens, IP66; 12Vdc power inputs, and fast video
<b>THFD12A6-35</b>	640 x 480 Fixed Analog Thermal Camera System with 35mm Lens, IP66; 12Vdc power inputs, and fast video



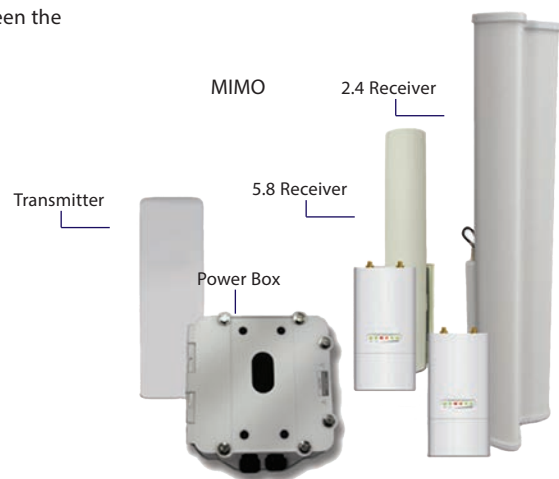
FIXED THERMAL

## MIMO (Multiple-in, Multiple-out) Wireless for IP Cameras

- 2.4GHZ for wide range • 5.8GHZ frequencies for longer range with obstructions between the transmitter and receiver • Plug and play, minimal configuration, easy to use
- Lightweight transmitter and transceiver use high grade weather-resistant plastics able to withstand highly corrosive environments.
- Also operates on 802.11 WiFi networks, for local configuration and settings
- Over 120MB throughput enables multiple High Definition (HD) cameras to stream simultaneously over one connection
- Affordable and easy to install using the provided camera backbox
- Compatible with most IP network cameras
- Custom software interface for setup, troubleshooting, and configuration

### BADGER PART NUMBER:

<b>PB24M24</b>	Rugged outdoor wireless box, with a 110Vac (220Vac U.K.) input and 24Vac output for camera, fuse protected with a wireless 2.4GHz MIMO transmitter. Directional antenna
<b>PB24M58</b>	Rugged outdoor wireless box, with a 110Vac (220Vac U.K.) input and 24Vac output for camera, fuse protected with a wireless 5.8GHz MIMO transmitter. Directional antenna
<b>VLRM24</b>	Wireless 2.4GHz MIMO access point, 110Vac input and 24V output
<b>VLRM58</b>	Wireless 5.8GHz MIMO access point, 110Vac input and 24V output



Every effort has been made to ensure the integrity of this catalog. Badger Communications cannot be held responsible for any misrepresentation associated with any products due to omissions, typographic errors or misprints.





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## FUSION PRESSURIZED AND DUST-PROOF HOUSINGS

The Fusion Pressurized and Fusion Dust-Proof tubular camera enclosures protect fixed IP cameras and lenses from debris, chemicals and other contaminants, extending the life of cameras and reducing service calls.

### BADGER PART NUMBER:

<b>PFH10C2W</b>	Pressurized tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount
<b>PFH10C2WY</b>	Pressurized tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount, adjustable sunshield
<b>PFH10C8WY</b>	Pressurized tubular housing, PoE input with Dynamic Power Allocation, 30 watt midspan included, heater and blower with feed-thru wall/pole mount, supports .af PoE cameras, adjustable sunshield
<b>DFH10C2W</b>	Dust-proof tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount
<b>DFH10C2WY</b>	Dust-proof tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount, adjustable sunshield
<b>DFH10C8WY</b>	Dust-proof tubular housing, PoE input with Dynamic Power Allocation, 30 watt midspan included, heater and blower with feed-thru wall/pole mount, supports .af PoE cameras, adjustable sunshield



## FUSION CAMERA HOUSING WITH THERMIQ COOLING TECHNOLOGY

The professional grade outdoor Fusion Camera Housing with Thermiq Technology was designed to keep advanced IP fixed cameras operating at top performance.

### BADGER PART NUMBER:

<b>FCH11C2WQ</b>	Environmental housing with heat exchanger, feed-thru wall/pole mount, 24Vac or 12Vdc input, heater/blower, adjustable sunshield
<b>FCH11C8WQ</b>	PoE input, with DPA, supports IEEE802.3af cameras, 30 watt midspan included, heater/blower, adjustable sunshield
<b>FCH11C4WQ</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield
<b>FCH11C4WQ-MM</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant multi-mode fiber-optic transceiver
<b>FCH11C4WQ-SM</b>	24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant single-mode fiber-optic transceiver



FCH-THERMAL

# CAMERA POLES

## POLEVATOR

Save money, time and labor with Moog's innovative self-service PoleVator. One technician, using a simple drill, can quickly and easily service or repair pole-mounted cameras.

### BADGER PART NUMBER:

<b>PV16N</b>	16 ft. free-standing aluminum pole complete with universal mounting plate, flexible shaft lowering tool, lifting hook, power and data connections and video input
<b>PV18N</b>	PV16N with 2 ft. transformer base. Base includes NEMA box, terminal strip, 115Vac to 24Vac transformer and surge protection for video/data



## FIXED CAMERA POLES

Constructed of heavy-gauge steel, Moog surveillance poles are engineered with the sole purpose to enhance video surveillance.

Capable of supporting up to 75 Lbs. and withstanding wind gusts of up to 170 mph, Moog poles are ideal for optimizing your video surveillance system.

### BADGER PART NUMBER:

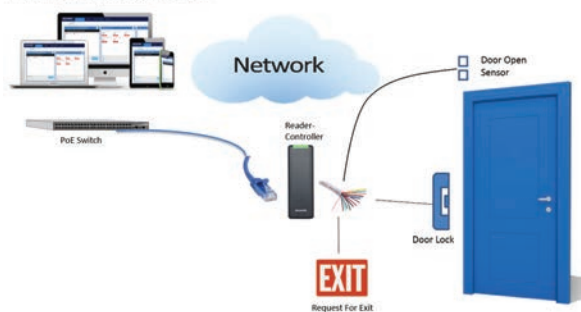
<b>P1600</b>	Standard 16 ft. steel pole (4" x 4" tubing) with access panels on top and bottom, square base with a maximum load of 75 Lbs.
<b>P1800</b>	Solid construction 16 ft. steel pole with 2 ft. transformer base NEMA enclosure. Base includes terminal strip, 115Vac to 24Vac transformer and surge protection
<b>P1800TB</b>	P1800 without NEMA Box or electronics





ISONAS is the first access control company to design and manufacture a cutting-edge, IP-to-the-door solution that eliminates needless complexity—including inconvenient control panels, separate power supplies, and dedicated hard-wiring. ISONAS fundamentally believes that an IP structure for access control provides the highest quality, greatest flexibility and best value for schools, hospitals and all organizations seeking to add physical access control. Similar to what has happened in IP surveillance cameras, ISONAS intends to change the global access control market to an IP structure.

Pure Access Hosted Software



### Pure IP™ Reader-Controller

The new Pure IP™ hardware family from ISONAS offers a suite of products that allow you to customize your access control solution. Our Reader-Controller continues to take advantage of our patented technology and remains an all in one intelligent device; eliminating the need for a panel and allowing you to take advantage of your existing network.

- Mullion, wall mount and wall mount keypad form factors allow for US and EU compatible mounting options
- Available in two models: Multi-card technology (125kHz and 13.56 MHz) or a proximity-only version (125kHz)
- Bluetooth Low Energy (BLE) capability allows for electronic credentials through a smart phone
- Local mode feature allows readers to function without a connection to the network
- Tamper detection via accelerometer senses any type of altering and prevents a security breach with the reader
- Secure data transmissions with AES 256 bit encryption
- Metal back plate provides additional security, a simple two piece installation and consistent read range

#### BADGER PART NUMBER:

<b>RC-04-PRX-WK</b>	Wallmount Keypad Reader-Controller
<b>RC-04-MCT-WK</b>	Wallmount Keypad Reader-Controller
<b>RC-04-PRX-W</b>	Wallmount Reader-Controller
<b>RC-04-MCT-W</b>	Wallmount Reader-Controller
<b>RC-04-PRX-M</b>	Mullion Reader-Controller
<b>RC-04-MCT-M</b>	Mullion Reader-Controller


 RC-04-PRX-WK  
 RC-04-MCT-WK

 RC-04-PRX-M  
 RC-04-MCT-M

### ISONAS Powernet™ IP Reader-Controller

All in one reader and controller device that provides the first "Pure IP" solution to the door and eliminates the need for a panel.

- Single device that eliminates control panels and hard wiring
- Power over ethernet to the Reader-Controller also provides up to .6 amps to power the electric strike or mag lock. No other power is needed at the access point
- Unlimited number of readers on a system and unlimited number of users
- TCP / IP Direct Connectivity allowing for integrations with existing systems
- DHCP and Call Home Enabled • Smart Card and Proximity card models • Optional Keypad
- AES 256 Bit Encrypted Communication • Optical Tamper Device • Potted for weather resistance
- 2 TTL Outputs • Power Output; 0.6amps @12V • Dimensions: 1.625" X 6.750" X .940"
- PoE, 12v, or 24v power options

#### BADGER PART NUMBER:

<b>PN: RC-03 PRX</b>
<b>PN: RC-03 PRX K</b>
<b>PN: RC-03 MCT</b>
<b>PN: RC-03 MCT K</b>





## ISONAS PowerNet™ IP-Bridge

Easily and cost effectively expand legacy systems to seamlessly operate within an ISONAS Pure IP environment. Similar to a video encoder, the IP-Bridge allows you to avoid rip and replace, creating a migration path from analog to a new IP architecture that leverages existing infrastructure.

- Supports PoE, PoE+, 12v, and 24v power options • Supports standard door hardware, including Wiegand readers
- Dual network port allows interconnection of multiple IP-Bridges
- Functions as an ethernet network appliance to connect other IP devices, such as cameras
- Two TTL outputs • Three configurable inputs (REX, AUX, Door sensor)
- Din rail mountable • Dimensions: 6.28" X 3.55" X 2.26"



### BADGER PART NUMBER:

<b>IPBridge-2</b>	2-Door Model
<b>IPBridge-3</b>	3-Door Model

## Pure IP™ Wiegand Reader

The new Pure IP™ hardware family from ISONAS also includes a line of Wiegand readers. Now fully customize your Pure IP™ solution with either our Reader-Controller or our PowerNet™ IP-Bridge connected to our Wiegand Reader.

- Allow for US and EU compatible mounting options
- Available in Multi-card technology (13.56MHz and 125kHz)
- Bluetooth Low Energy (BLE) capability allows for electronic credentials through a smart phone
- Tamper detection via accelerometer senses any type of altering and prevents a security breach with the reader
- Metal back plate provides additional security, a simple two piece installation and consistent read range

### BADGER PART NUMBER:

<b>R-1-MCT-W</b>	Wallmount Wiegand Reader
<b>R-1-MCT-WK</b>	Wallmount Keypad Wiegand Reader
<b>R-1-MCT-M</b>	Mullion Wiegand Reader



## Pure IP Cables

8 pin snap connector that simplifies installation by allowing pre-wiring to be completed prior to the installation of the Pure IP Reader-Controller(RC-04). Available in 10 and 25 ft lengths

- 8 pin snap in MOLEX connector
- Jacketed cable for protection and improved cable pulls
- 8 conductor cable wires to handle door locks, AUX or REX, Door Sensor, 2 common grounds and our Exterior Door Kit

### BADGER PART NUMBER:

<b>Cable-10</b>	10 ft. Pure IP Cable
<b>Cable-25</b>	25 ft. Pure IP Cable



# SOFTWARE

## Pure Access

ISONAS Pure Access is a family of leading access control software products comprised of our fully hosted platform, Pure Access Cloud and an on premise option, Pure Access Manager. Pure Access provides a complete access control platform allowing for full installation, administration and management of our patented Pure IP™ access control hardware. The modern user interface establishes a new standard for ease of use in managing an unlimited number of access points across any geography through a mobile device, tablet or modern browser. Pure Access brings new features and functionality to access control that fully leverage the power of our Pure IP™ hardware solution.

- Available anytime from anywhere
- Set up and configure your access points in a matter of minutes, reducing overall installation time and costs
- Provides peace of mind and eliminates the need to support on-site hardware
- Individual dashboard widgets allow customizable real-time monitoring

### BADGER PART NUMBER:

<b>PA-C-1-5</b>	Air: Pure Access Cloud, 1 to 5 Door License
<b>PA-C-6-20</b>	Element: Pure Access Cloud, 6 to 20 Door License
<b>PA-C-21-50</b>	Cirrus: Pure Access Cloud, 21 to 50 Door License
<b>PA-C-51-100</b>	Nimbus: Pure Access Cloud, 51 to 100 Door License
<b>PA-C-101-250</b>	Stratus: Pure Access Cloud, 101 to 250 Door License
<b>PA-C-251</b>	Cumulus: Pure Access Cloud, 251+ Door Customer Partitioning





### EasyWeb 2015

Manage your entire access control system from anywhere at anytime. The ISONAS EasyWeb 2015 browser-based software package allows you to manage your credentials and monitor your access points in real time.

**43697DPART NUMBER:**

**EWEB-2015**

\*Available with DBCrystal



### DB Crystal Matrix Software

Standard with every PowerNet™ and does not require any additional licenses. DB Crystal is the highest feature, most advanced version of our software. It provides a full featured access control software for an unlimited number of people, doors and shifts.

- FREE with the purchase of ISONAS hardware products
- Supports more complex features such as elevator controls, lock down scripts, and alarm integrations
- Supports unlimited number of card-holders • Supports unlimited number of doors
- Supports unlimited number of shifts • Monitor Application included for security guard or receptionist usage



### Active Directory Bridge

Use AD-Bridge to simplify the maintenance of the ISONAS ACS by providing the user a single point of entry, for maintaining their corporate personnel database.

- The ISONAS Active Directory Bridge (AD-Bridge) provides a powerful mechanism that supports the propagation of selected information about people, their assigned credentials and the groups to which they are assigned from the Microsoft® Active Directory to the ISONAS access control system

**BADGER PART NUMBER:**

**AD-Bridge**

\*Available with DBCrystal



### Badge Printing Software

The ISONAS Crystal Matrix Badge Printing software allows the user to create attractive identification badges that incorporate data and images from the Crystal Matrix databases.

- Unlimited number of user-defined card templates supported
- Supports multiple workstations with a single site license
- Supports unlimited number of card-holders
- Supports popular card printers through their standard Windows print drivers
- Uses a standard Windows user interface

**BADGER PART NUMBER:**

**BS-1**

\*Available with DBCrystal



## CREDENTIALS

### Thin Cards

The ISONAS thin card provides flexibility on how to execute identification cards. Commonly used with printed employee pictures.

- Size of a standard credit card • Easily fits into wallets
- Printable on standard ID card printers • Dimensions per ISO 7810
- Utilizes RFID Technology • Color - White • Material - PVC
- Operating Temperature -10°F to +120°F
- Available in both proprietary and HID™ formats, both high and low frequencies

**BADGER PART NUMBER:**

**TC-2**



### Key Fobs

Key fobs provide flexibility and ease of access by allowing employees to carry the fob with them at all times.

- Utilizes RFID Technology
- Conveniently attaches to a set of car keys
- Built to withstand wear and tear
- Color - Blue/Grey
- Material - PVC
- Operating Temperature -30°F to +175°F
- Available in both proprietary and HID™ formats

**BADGER PART NUMBER:**

**KF-3**





## Clamshell

The clamshell provides a cost-effective solution to proximity access control. It provides durable packaging and the hole punch provides flexibility.

- More durable than a thin card
- Pre-punched hole for a lanyard
- Utilizes RFID technology
- Color - White • Material - Hard shell ABS and PVC
- Operating Temperature -30°F to +120°F
- Available in both proprietary and HID™ formats

**BADGER PART NUMBER:**

**LC-1**



## Cap Tag

The small size of the cap tag along with adhesive backing allows you to turn normal items into a proximity credential. Some examples: Student ID cards, books, computers, and cell phones.

- Utilizes RFID Technology.
- Color - White
- Material - PVC
- Operating Temperature -10°F to +120°F
- Available in both proprietary and HID™ formats

**BADGER PART NUMBER:**

**CT-4**



# ACCESSORIES

## Trim Kit

Create a clean, finished look by adding a trim kit when mounting your PowerNet RC-03 Reader-Controller onto a single gang electrical box.

- Used to completely cover the outlet box, providing a sleek, finished look
- Used for textured mounting surfaces
- Provides a simple place to attach the reflective anti-tamper sticker
- Dimensions (inches): 2 3/4" wide x 7 3/4" tall x 3/16" thick

**BADGER PART NUMBER:**

**TK-2-M**



## PowerNet™ Cables

12 pin snap-in connector simplifies installation by allowing wiring to be done prior to the installation of the PowerNet™ Reader-Controller Available in 4, 10 and 25 foot lengths.

- 12 pin snap-in MOLEX connector
- Jacketed cable for protection and improved cable pulls
- 12 conductor cable, 22 AWG wires
- Cable jacket pre-stripped for connections to the door's components
- Being detachable simplifies the system's maintenance and troubleshooting

**BADGER PART NUMBER:**

**CABLE-POWERNET-xx**



## Exterior Door Kit

For exterior doors, this kit provides an increased level of security by preventing the lock wires from being in contact with the unsecured side of the door.

- Durable plastic enclosure
- Polycarbonate blend, UV stabilized
- Potted for greater weather resistance
- Powered by the PowerNet™ Reader-Controller, no additional power required
- Rated for 3 amps at 12v DC
- Proprietary encrypted serial data
- 2 sets of terminal blocks for easy installation
- Two LED indicators
- Dimensions (inches): 2 3/4" X 1 1/4" X 3/4"

**BADGER PART NUMBER:**

**ACC-EDK-3A**



## Desk Stand

Create a simple enrollment process or demonstration by mounting your PowerNet™ Reader-Controller to this desk stand.

- Used to simplify and speed up the enrollment process
- Compatible with all ISONAS PowerNet™ Reader-Controllers

**BADGER PART NUMBER:**

**ACC-STD-SA**



## In-Rush Suppressor

Protects your reader from in-rush voltages and is primarily used for magnetic door locks.

- Any installation that is using Magnetic Locks that are equipped with a "quick-release feature" should have this in-rush protection installed

**BADGER PART NUMBER:**

**ACC-IRS-4700**



## Secondary Relay - 4 Outputs

The Secondary Relay Module (SRM) supports controlling two or four enclosure locks from a single PowerNet™ Reader-Controller. The SRM is commonly used to control multiple doors on storage cabinets or computer racks.

- Dimensions: 1 1/2" X 1/2" X 1/4"
- Operating Temperature -40°F to 120°F
- Relay rated for 2 amp at 30VDC

**BADGER PART NUMBER:**

**ACC-SRM-4OSW**

\*For use with the RC-03



## Wiegand Interface Module

The ISONAS Wiegand Interface Module (WIM) allows the PowerNet™ to receive credential data from a Wiegand-based device, validate the credential, and then log that activity.

- The WIM is an in-line module that is attached to selected conductors of the PowerNet™ pigtail. WIM is self-contained, and controlled by the attached PowerNet™

**BADGER PART NUMBER:**

**ACC-WIM**

\*For use with the RC-03



## Demo Unit

The ISONAS Demo Unit is a fully functional access control system. It can be used when demonstrating the features available with the ISONAS system, and to help illustrate answers to the customer's specific questions.

**BADGER PART NUMBER:**

**DMO-RC-04-PRX-WK**





**PHYBRIDGE CLEER24 SWITCH**

The Phybridge CLEER switch is an enterprise grade switch utilizing the proven PoLRE (Power Over Long Reach Ethernet technology), designed to transform the existing Coax infrastructure into an IP path with PoE. The CLEER 24 port switch delivers fast Ethernet (100mbps symmetrical) and PoE over coax with up to 2,000ft (609m) reach. The CLEER switch is proven to eliminate infrastructure barriers to IP adoption, creating a robust network in line with industry best practices. CLEER allows for a more environmentally responsible and economically viable way to migrate to IP without compromise.

**Features:**

- 24 x 30 watt downlink ports delivering 100 Mbps, full duplex over coax
- 2 x 1 GB uplink ports that can be bonded together for higher bandwidth
- 2 x 1 Fiber uplink ports that can be bonded together for higher bandwidth
- Dedicated management and console ports
- Industry leading PowerWISE technology comes standard with CLEER 24
- 500w (110v) or 1000w (220V) auto sensing power supply
- AC/DC power source option
- Power sharing for redundancy
- Hot swappable power supply for easy replacement
- Power management by port
- Intuitive easy to use GUI interface

**BADGER PART NUMBER:**

**NV-CLR-024** CLEER24 Switch

**Benefits:**

- Accelerate your return on investment by significantly reducing infrastructure costs
- Collapse planning and deployment cycles by simplifying infrastructure requirements and leveraging CLEER capabilities
- Eliminate infrastructure barriers, disruption, risk and network complexity by leveraging the existing, proven and reliable point-to-point coax infrastructure
- Create a separate robust network in line with best practices that is simple to configure, deploy and manage

**PHYBRIDGE EC10 SWITCH****PHYBRIDGE EC10 SWITCH**

EC (Ethernet over Coax) switches are based on Phybridge's proven PoLRE (Power over Long Reach Ethernet) technology. EC10 is a 10 port Ethernet over coax switch designed specifically to facilitate a seamless switchover from an Analog to an IP infrastructure by leveraging the existing Coax cables to deliver Ethernet and PoE. The EC10 switch transforms the existing, proven reliable coax infrastructure into an IP path with power, ideal for IP Camera migration.

**Benefits:**

- Accelerate your return on investment by significantly reducing infrastructure costs
- Collapse planning and deployment cycles by simplifying infrastructure requirements and leveraging CLEER capabilities
- Eliminate infrastructure barriers, disruption, risk and network complexity by leveraging the existing, proven and reliable point-to-point coax infrastructure

**Features:**

- 10 downlink ports delivering 100Mbps full duplex
- 2 x 1 GB uplink ports
- 150 watt external power supply included

**BADGER PART NUMBER:**

**NV-EC-10** EC10 Switch

**EC Link**

- Media converter adapter
- Can be locally powered for more PoE delivery
- Can be paired together as EoC extenders.

**BADGER PART NUMBER:**

**NV-LNK-02** EC Link

**NV-LNK-PLUS** EC Link PLUS

**EC4 Port Adapter**

- Expands 1 coax cable to 4 PoE Ethernet ports
- Can be locally powered for more PoE delivery

**BADGER PART NUMBER:**

**NV-EC-4**





## FLEX 24 Port Managed Switch

- 24 x 50 watt downlink ports delivering 100 Mbps, full duplex over coax.
- 2 x 1GB uplink ports that can be bonded together for higher bandwidth
- 2 x 1 Fiber uplink ports that can be bonded together for higher bandwidth
- Dedicated management and console ports
- Industry Leading PowerWISE technology comes standard with FLEX
- 500w (110v) or 1000w (220V) auto sensing power supply
- AC/DC power source option
- Power sharing for redundancy
- Hot swappable power supply for easy replacement
- Power management by port
- Intuitive easy to use GUI interface

### BADGER PART NUMBER:

**NV-FLX-024** FLEX24 Switch



## FLEX 8 Port Unmanaged Switch

- 8 downlink ports delivering 100Mbps full duplex
- 2 x 1 GB uplink ports
- 150 watt external power supply included

### BADGER PART NUMBER:

**NV-FLX-08** FLEX8 Switch

## FLEX Link

- Media converter adapter
- Can be locally powered for more PoE delivery
- Can be paired together as Ethernet extenders.

### BADGER PART NUMBER:

**V-FLXLK** FLEX Link

**NV-FLXLK-PLUS** FLEX Link PLUS



## FLEX 4 PORT ADAPTER

- Expands 1 UTP cable to 4 PoE Ethernet ports
- Can be locally powered for more PoE delivery

### BADGER PART NUMBER:

**NV-FLX-4** FLEX 4 PORT ADAPTER



## RTS

The RTS is perfect for security-sensitive business and government environments. Set access control rights for each individual user to each individual lock and upload these access rights in seconds. You can register users as fingerprint only, PIN-code only, or a combination of both on any lock or group of locks you define. The combination of large user capacity, audit trails, built-in scheduling system and weather-proof design makes this system unequaled in value compared to other products currently available.

- Up to 1,000 users per lock
- Multi-modal options with PIN Code, fingerprint and mechanical key
- 4th generation advanced CMOS optical finger-print sensor
- Easy to read OLED screens
- Program at the lock or use optional software
- Capture, review, and transmit audit trail history
- IP56 tested ensures resistance to humidity, dust, and rain
- Rugged Zamak 5 cast enclosure with Satin Chrome finish
- MS1 is an optional management software tool that allows you to administer an unlimited number of locks
- FCC, CE, UL, ANSI, RoHS Certifications
- ISO 9001 Compliant
- ISO/TS 16949 - ISO 14001
- 83% Made in America
- 2 year warranty from date of purchase

### BADGER PART NUMBER

RTS



## RTEON-POE

The RTEON-POE is perfect for security-sensitive business and government environments. Set access control rights for each individual user to each individual lock and upload these access rights in seconds. You can register users as fingerprint only, PIN-code only, or a combination of both on any lock or group of locks you define. The combination of large user capacity, audit trails, built-in scheduling system and weather-proof design makes this system unequaled in value compared to other products currently available.

- 1,000 user capacity
- Multi-modal access via PIN code, fingerprint, and mechanical key
- 4th generation advanced CMOS optical finger-print sensor
- Easy to read OLED screens
- Transfer & view audit trails to any authorized PC through ethernet connection
- Operate stand alone or integrate server side
- Power & access over high speed ethernet
- Capture, review, and transmit audit trail history
- Sealed weather and dust proof design
- Rugged, zinc cast enclosures
- MS1 is an optional management software tool that allows you to administer an unlimited number of locks
- FCC, CE, UL, ANSI, RoHS Certifications
- 2 year warranty from date of purchase

### BADGER PART NUMBER

RTEON-POE





## RTS-P & RTS-PZ

The RTS-P and RTS-PZ are perfect for security-sensitive business and government environments. Set access control rights for each individual user to each individual lock and upload these access rights in seconds. You can register users as PIN-code. The combination of large user capacity, audit trails, built-in scheduling system and weather-proof design makes this system unequalled in value compared to other products currently available.

- 1,000 user capacity
- Multi-modal options with Secure PIN Code and mechanical key
- Easy to read OLED screens
- Program at the lock or use optional software
- Capture, review, and transmit audit trail history
- IP56 tested ensures resistance to humidity, dust, and rain
- 3 Authority levels: Administrator, Manager and User
- Scheduling: Create day/time and user specific lock schedules, users with Administrator authority have access at all times
- Holiday mode: Set up to 12 dates which will override regular unlock periods, keeping lock secure
- MS1 is an optional management software tool that allows you to administer an unlimited number of locks
- FCC, CE, UL, ANSI, RoHS Certifications
- ISO 9001 Compliant
- ISO/TS 16949 - ISO 14001
- 83% Made in America
- 2 year warranty from date of purchase
- Z-Wave Plus 5202 chipset with integrated Z-Wave controller (RTS-PZ only)
- Mesh network extends range of other devices (RTS-PZ only)

### BADGER PART NUMBER

**RTS-P**

**RTS-PZ**



RTS-P/RTS-PZ

## RTS-Z

The RTS-Z is perfect for security-sensitive business and government environments. Set access control rights for each individual user to each individual lock and upload these access rights in seconds. You can register users as fingerprint only, PIN-code only, or a combination of both on any lock or group of locks you define. The combination of large user capacity, audit trails, built-in scheduling system and weather-proof design makes this system unequalled in value compared to other products currently available.

- 1,000 user capacity
- Multi-modal access via PIN code and mechanical key
- 4th generation advanced CMOS optical finger-print sensor
- Easy to read OLED screens
- Z-Wave Plus 5202 chipset with integrated Z-Wave controller
- Mesh network extends range of other devices
- Operate stand alone or integrate server side
- Capture, review, and transmit audit trail history
- IP56 tested ensures resistance to humidity, dust, and rain
- Rugged Zamak 5 cast enclosure with Satin Chrome finish
- MS1 is an optional management software tool that allows you to administer an unlimited number of locks
- FCC, CE, UL, ANSI, RoHS Certifications
- ISO 9001 Compliant
- ISO/TS 16949 - ISO 14001
- 83% Made in America
- 2 year warranty from date of purchase

### BADGER PART NUMBER

**RTS-Z**



RTS-Z



## MS1

- MS1 is available via Westinghouse Security website allowing for free 30-day trial
- Windows XP, Vista, Win7 32/64-bit, Win8, and Win8.1 compatible
- Login to the MS1 can be set to validate password, fingerprint, or both!
- Overview shows Lock Groups, Locks, and number of users per lock and allows you to Lock/Unlock individual network (PoE and ZWave) locks all from one convenient area
- Blended interface supports entire RTS family of locks – Standalone (USB), PoE, and ZWave locks
- Ability to create unlimited number of Lock Groups and provide meaningful names for each group
- Ability to create unlimited number of locks under any lock group and provide meaningful name for each lock
- Timed Unlock Mode for each lock
- Programmable User Access Times "First person in" Scheduled Unlock Mode capability
- Holiday Mode programming for each lock
- Lock sensitivity settings programmable on lock by lock basis
- Verification mode settings per lock to allow quicker look-ups of stored credentials
- Hover-over help tips for most fields within the MS1
- Interfaces to USB fingerprint reader for enrollments
- Interface to USB ZWave controller stick to allow direct communications with ZWave enabled devices
- Add users individually or in bulk using .CSV format file import
- Onboard graphics reflect the current state (locked or unlocked) for ZWave locks
- Multiple login ids per MS1, with Admin/User privileges
- Lock and User (individual and bulk) wizards for ease of programming
- Cut/paste functionality for ease of programming users 3 Administrators, 4 Managers, and 992 Users per lock
- Add/remove user to/from one or multiple locks
- All configuration can be pushed to the locks, either by LAN (RTS-E), ZWave (RTS-Z), and/or USB (all RTS models)
- All audit information can be retrieved from the locks, either by LAN (RTS-E), ZWave (RTS-Z), and/or USB (all RTS models)
- Per user PIN code and fingerprint enrollment from MS1
- Per user Access Time definition
- Audit trail editor screen allows view, storage, print, and export options
- ZWave specific area of the MS1 allows for enrollment and communication with RTS-Z as well as generic ZWave devices
- Firmware upgrades to RTS-Z can be performed from the MS1
- Management log shows who has accessed MS1 and what changes were performed
- Database Import and Backup, as well as the ability to pre-process and import legacy databases into the MS1 making easy migration from previous versions
- Access to online help via Knowledge Base or email to Westinghouse Security support

MS1

### BADGER PART NUMBER

MS1

## USB Z-WAVE® CONTROLLER

### HUSBZ-1: GoControl QuickStick

The GoControl QuickStick is a simple-to-use Z-Wave controller that plugs into your PC computer's USB port, allowing home automation control of Z-Wave devices using its free smartphone app. The QuickStick devices comes with free PC-based software and a free downloadable app, allowing you to control Z-Wave products from Nortek Security & Control and others. Remote Z-Wave control requires that the associated PC remains powered, turned on and connected to the internet. (If the connected PC reverts to sleep or hibernate mode, Z-Wave remote control capabilities will not function).

- USB full-speed device connection
- Serial interface solution exposing the Z-Wave Serial API on USB
- Built-in helical antenna
- Firmware upgrade through USB
- USB powered
- Support for Linux, Windows and OS X
- CDC device class for communication

### BADGER PART NUMBER

HUSBZ-1



HUSBZ-1



## RTHL Series

### Premium Full HD LED Backlight CCTV Monitors

The company that first introduced LED monitors for security industry now goes BIG & Tough. ViewZ introduces all new 24, 27, 32 & 42 inch RTHL monitor series equipped with LED backlight panels & the optimal mix of analog and digital inputs along with an all metal cabinet. Large size RTHL monitors are great additions to our 18.5, 21.5 & 23 inch LED lineup.

- Black All Metal Flat Panel LED "A" Commercial-Grade Monitor
- Full HD 1920 x 1080 / 16:9
- 2 Looping BNC (NTSC/PAL) / 2 HDMI / DVI / Component / VGA / S-Video / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- Image Rotation Feature Prevents "Pixel Burn-In" / 2W Speaker x 2
- AC 110 ~ 240 V / MTBF. 50K hrs / 3 Year Warranty



#### BADGER PART NUMBER:

<b>VZ-24RTHL</b>	24" LED CCTV Monitor
<b>VZ-27RTHL</b>	27" LED CCTV Monitor
<b>VZ-32RTHL</b>	32" LED CCTV Monitor
<b>VZ-42RTHL</b>	42" LED CCTV Monitor

## LED Series

### HD LED CCTV Monitors

HD CCTV LED monitor with abundance of connectivity options such as BNC, HDMI, DVI & VGA

- Black Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- Full HD 1920 x 1080 / 16:9
- Looping BNC (NTSC/PAL) / HDMI / DVI / VGA / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- Image Rotation Feature Prevents "Pixel Burn-In" / 2W Speaker x 2
- DC 12V (AC100 ~ 240V[50/60Hz]) / MTBF. 50K hrs / 3 Year Warranty

#### BADGER PART NUMBER:

<b>VZ-185LED-E</b>	18.5" LED CCTV Monitor
<b>VZ-185LED-P</b>	18.5" LED CCTV Monitor
<b>VZ-215LED-E</b>	21.5" LED CCTV Monitor
<b>VZ-215LED-P</b>	21.5" LED CCTV Monitor
<b>VZ-215LED-SN</b>	21.5" LED CCTV Monitor
<b>VZ-23LED-E</b>	23" LED CCTV Monitor
<b>VZ-23LED-P</b>	23" LED CCTV Monitor



## RTV Series

### Value Commercial-Grade LED/LCD CCTV Monitors

By far the best selling ViewZ monitor series. RTV delivers the perfect blend of vivid video at an affordable price. More than 3 million monitors sold worldwide.

- Black Flat Panel LED / LCD "A" Commercial-Grade Monitor
- 1280 x 1024 / 5:4 Aspect Ratio
- Looping BNC (NTSC/PAL) / HDMI / VGA / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- LED Protection Glass on 17" & 19" models / 2W Speaker x 2
- DC 12V (AC100 ~ 240V[50/60Hz]) / MTBF. 50K hrs / 3 Year Warranty

#### BADGER PART NUMBER:

<b>VZ-15RTV</b>	15" LCD CCTV Monitor
<b>VZ-17RTV</b>	17" LED CCTV Monitor
<b>VZ-19RTV</b>	19" LED CCTV Monitor





**RTC Series****Premium Commercial-Grade LED/LCD CCTV Monitors**

- Black All Metal Flat Panel Widescreen LED / LCD "A" Commercial-Grade Monitor
- 1280 x 1024 (VZ-17RTC & 19RTC) / 5:4, 1024 x 768 (15RTC, 097RTC) / 4:3
- Looping BNC (NTSC/PAL) / HDMI / DVI / VGA / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- LED Protection Glass on 17" & 19" models / 2W Speaker x 2
- DC 12V (AC100 ~ 240V[50/60Hz]) / MTBF. 50K hrs / 3 Year Warranty

**BADGER PART NUMBER:**

<b>VZ-097RTC</b>	9.7" LED CCTV Monitor
<b>VZ-15RTC</b>	15" LCD CCTV Monitor
<b>VZ-17RTC</b>	17" LED CCTV Monitor
<b>VZ-19RTC</b>	19" LED CCTV Monitor

**IP PVM Series****IP HD Public View LED Monitor - Onvif Compliant (Fully Compatible with VMS) - Profile S**

Public View Monitor with built-in 2.1 Megapixel Camera (Full-HD 1920x1080). Displays FHD image real time on the display as well as streams to NVR or VMS. Can be powered with direct 120VAC or low voltage 24VDC. Low voltage power gives the ability to power several hundred feet away if local power is not available. Also has BNC out and can use with optional media player.

- Enhanced Public View Monitor over IP / Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- 1920 x 1080 (16:9) / Built in 2.1 Mega Pixel Vari-Focal Camera
- Flexible Alert Text / Multi-color Blinking LED / 600 TV Line / Camera Motion Sensor
- RJ-45(Ethernet) / Looping BNC (NTSC/PAL) / 2 HDMI / DVI / VGA / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / Camera & Monitor OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- 2W Speaker x 2 / Dual Voltage (AC110V & 24V DC) / MTBF. 50K hrs / 3 Year Warranty

**BADGER PART NUMBER:**

<b>VZ-PVM-I2W3</b>	23", White, 24VDC or 120VAC to power, VESA 100x100 and 200x200
<b>VZ-PVM-I2B3</b>	23", Black, 24VDC or 120VAC to power, VESA 100x100 and 200x200
<b>VZ-PVM-I3W3</b>	27", White, 24VDC or 120VAC to power, VESA 200x200
<b>VZ-PVM-I3B3</b>	27", Black, 24VDC or 120VAC to power, VESA 200x200
<b>VZ-PVM-I4W3</b>	32", White, 24VDC or 120VAC to power, VESA 200x200
<b>VZ-PVM-I4B3</b>	32", Black, 24VDC or 120VAC to power, VESA 200x200
<b>VZ-MP2</b>	Optional Media Player. When ordered with PVM, will be installed inside PVM through external slot. Plays photos or video and can be triggered by camera motion.

**A SMALL PUBLIC VIEWING MONITOR WITH ALL THE BIG FEATURES**

The new 10" IP public view monitor from ViewZ boasts an impressive array of features such as PoE power operation, built-in pinhole 2.1MP camera, built-in media player for advertising and industry proven grade "A" commercial panel for 24/7 operation.

- Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- Onvif Compliant (Fully Compatible with VMS) - Profile S
- Full HD 1280 x 800 / 16:10
- RJ-45 for IP Camera & Power / USB & Micro SD (Media Player)
- Auto Source & Power Recovery / Camera & Monitor OSD / Remote Control
- Flexible Alert Text / Multi-color Blinking LED / Camera Motion Sensor
- 2W Speaker x 2 / PoE to Power / MTBF. 50K hrs / 3 Year Warranty

**BADGER PART NUMBER:**

<b>VZ-PVM-I1W4</b>	10", White, PoE (30W) to power, VESA 75x75
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## PVM-Z Series

### Public View Monitors with Built-In Analog 720p Camera

Public View Monitor for Analog Applications. Displays 1.3MP Real Time on Display, converts to analog resolution for output.

- Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- 1920 x 1080 (16:9) / Built in 1.3 Mega Pixel Vari-Focal Camera
- Flexible Alert Text / Multi-color Blinking LED / 600 TV Line / Camera Motion Sensor
- Looping BNC (NTSC/PAL) / 2 HDMI / DVI / VGA / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / Camera & Monitor OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- 2W Speaker x 2 / Dual Voltage (AC110V & 24V DC) / MTBF. 50K hrs / 3 Year Warranty

#### BADGER PART NUMBER:

- VZ-PVM-Z2W3** 23", White, 24VDC or 120VAC to power, VESA 100x100 and 200x200
- VZ-PVM-Z2B3** 23", Black, 24VDC or 120VAC to power, VESA 100x100 and 200x200
- VZ-PVM-Z3W3** 27", White, 24VDC or 120VAC to power, VESA 200x200
- VZ-PVM-Z3B3** 27", Black, 24VDC or 120VAC to power, VESA 200x200
- VZ-PVM-Z4W3** 32", White, 24VDC or 120VAC to power, VESA 200x200
- VZ-PVM-Z4B3** 32", Black, 24VDC or 120VAC to power, VESA 200x200
- VZ-MP1** Optional Media Player for PVM-Z. When ordered with PVM, will be installed inside PVM through external slot. Plays photos or video and can be triggered by camera motion



## IPM Series

### A Remote Viewing Station just became a single part number

Versatile all-in-one IP Camera Viewing Monitor. This monitor utilizes an embedded android board to pull video streams straight from a NVR/VMS or a camera. Supports a handful of 3rd party Android Apps as well as NVR/VMS apps. Can be used in a public environment or in a secondary viewing station. Eliminates the need of a PC and Windows License.

- Built-in Android OS / Cost Effective Alternative to Client PC
- Ideal for Running 4 - 6 Cameras / Sequential, Dual & Quad Viewing Available
- Designed to Run Android Apps / Ethernet 10/100
- Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- Full HD 1920 x 1080 / 16:9
- RJ-45(Ethernet) / 2 USB & Micro SD / USB Mouse & Keyboard Support
- AC100 ~ 240V[50/60Hz] / MTBF. 50K hrs / 3 Year Warranty

#### BADGER PART NUMBER:

- VZ-215IPM-B** 21.5", Black, 1920x1080 Display, RJ45 Network Port, Sequential Viewing



# SECURITY SOLUTIONS - CCTV VIDEO WALL MONITORS

## NL Series

### Narrow Bezel Commercial-Grade HD CCTV Video Wall Monitors

NL video wall monitors display brilliant HD images across multiple monitors with virtually seamless gaps between the screens. Designed to work with the ViewZ PRO series video wall controllers.

- Black All Metal Flat Panel LED "A" Commercial-Grade Monitor
- Full HD 1920 x 1080 / 16:9
- 2 Looping BNC (NTSC/PAL) / 2 HDMI / DVI / 2 Component / VGA / S-Video / PC Stereo Inputs
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- PIP / PBP / VOV / Auto Source Switching / Auto Source & Power Recovery
- Image Rotation Feature Prevents "Pixel Burn-In" / 2W Speaker x 2
- AC 110 ~ 240 V / MTBF. 50K hrs / 3 Year Warranty

#### BADGER PART NUMBER:

- VZ-40NL** 40" LCD CCTV Video Wall Monitor - Narrow 11 mm Metal Bezel
- VZ-46NL** 46" LED CCTV Video Wall Monitor - Narrow 12.5 mm Metal Bezel
- VZ-55NL** 55" LED CCTV Video Wall Monitor - Narrow 18 mm Metal Bezel





**UNL Series****Ultra Narrow Bezel Commercial-Grade HD CCTV Video Wall Monitors**

UNL video wall monitors display brilliant HD images across multiple monitors with virtually seamless gaps between the screens. Designed to work with the ViewZ PRO series video wall controllers.

- Black Flat Panel Widescreen LED "A" Commercial-Grade Monitor
- Full HD 1920 x 1080 / 16:9
- HDMI / DVI / VGA / PC Stereo Inputs
- Auto Source Switching / Auto Power Recovery
- 3D Comb Filter / De-Interlace / OSD / Remote Control
- Image Rotation Feature Prevents "Pixel Burn-In" / 2W Speaker x 2
- AC100 ~ 240V[50/60Hz] / MTBF: 50K hrs / 3 Year Warranty

**BADGER PART NUMBER:**

**VZ-46UNL** 46" LED CCTV Video Wall Monitor - Ultra Narrow 3 mm Metal Bezel

**VZ-55UNL** 55" LED CCTV Video Wall Monitor - Ultra Narrow 3 mm Metal Bezel



## SECURITY SOLUTIONS - CAMERAS/RECORDERS

**HYBRID DVR Series****4/8/16 ch HYBRID HD-SDI + ANALOG DIGITAL VIDEO RECORDER**

Hybrid DVR, each channel can support SDI or Composite signal through BNC Input. Up to 15 FPS. Available in 4, 8, 16 CH. Great solution to replace an existing Analog DVR if customer wants to keep existing cable and most of their Analog Cameras.

- 1080p/15fps, 720p/25&30fps, Analog/25&30fps
- H.264 Main/High Profile compression / HDMI and VGA output (1080p)
- Backup options : USB Drive, Internal / External HDD, Network
- Backup format : BMP, AVI, Proprietary format
- Hard Drive Max Capacity: 4ch/3TB, 8ch/6TB, 16ch/6TB
- Digital Zoom, DLS (Day Light Saving) / NTP(Network Time Protocol), S.M.A.R.T.
- Internal Beep, Multi-language, E-mail notification / Web Viewer / 3G&4G Mobile network / Remote Setup and Upgrade

**BADGER PART NUMBER:**

**VZ-04HyDVR** Hybrid 4 channel DVR, HD-SDI & Analog

**VZ-08HyDVR** Hybrid 8 channel DVR, HD-SDI & Analog

**VZ-16HyDVR** Hybrid 16 channel DVR, HD-SDI & Analog

Key: VZ-(Channels)(Model)-(Hard Drive Size) | Add "D" to end of the part number for a DVD Burner

Example: VZ-16RTDVR-12D is a 16 Channel Real Time DVR with 12TB and a DVD Burner, VZ-8HyDVR-8 is an 8 Channel Hybrid DVR with 8TB, no DVD Burner

\*Both Series can be ordered without a hard drive or DVR burner as a base model. VZ-(Channels)(Model)

\*\*The addition of a DVD burner will take up physical space that a Hard Drives could use, will limit max HD capacity.

**REAL TIME DVR Series****4/8/16 ch REAL TIME HD-SDI DIGITAL VIDEO RECORDER**

Real Time Recording, up to 30 Frames Per Second (FPS). Supports SDI Video. BNC Input. Available in 4, 8, 16 CH.

- 1080p Real time display, 480fps / 30fps per channel • H.264 High Profile compression
- Easy CMS SW for Windows OS, Remote Search for CMS or app • 1080p HDMI output & simultaneous VGA output
- Multi-language, NTP(Network Time Protocol), S.M.A.R.T.
- QUADPLEX: Simultaneous live or playback while still continuing to record, network transfer, and backup
- Web Viewer, 3G&4G Mobile network, Digital Zoom, DLS (Day Light Saving)
- Internal Beep, E-mail notification (Image or Video file attachment)

**BADGER PART NUMBER:**

**VZ-04RTDVR** Real time 4 channel DVR, HD-SDI & Analog

**VZ-08RTDVR** Real time 8 channel DVR, HD-SDI & Analog

**VZ-16RTDVR** Real time 16 channel DVR, HD-SDI & Analog





## HD SDI CAMERA Series

### HD OVER COAX CABLE

Full HD premium cameras at an affordable price? Yes, it's possible. Our HD-SDI cameras can capture video at 1920x1080 Full HD / 30fps and have premium features like Smart-IR technology, automatic gain control, True WDR, day & night filter, BLC, HLC and 2D/3D NR filter. HD-SDI cameras are produced with the highest performance and quality in mind. ViewZ HD-SDI security cameras will give you a picture perfect images 24 hours a day. All ViewZ security cameras are backed by our 2 year parts and labor warranty.



VZ-HDC-1



VZ-HDC-2



VZ-HDC-9



VZ-HDC-4



VZ-HDC-8 (Megapixel Lens sold separately)



VZ-HDC-M1

### BADGER PART NUMBER:

<b>VZ-HDC-1</b>	Vandal Dome, PANASONIC CMOS, 2.2MP HD-SDI, 2.8-11mm Varifocal 3MP Lens, TDN, True WDR, DPC, 30 IR LEDs, Dual Voltage, IP67
<b>VZ-HDC-2</b>	Indoor Dome, PANASONIC CMOS, 2.2MP HD-SDI, 3.7mm Fixed Lens 3MP, DN, True WDR, DPC, 12VDC
<b>VZ-HDC-4</b>	Bullet, PANASONIC CMOS, 2.2MP HD-SDI, 3.7mm Fixed Lens 3MP, TDN, True WDR, 23 IR LEDs, 12VDC
<b>VZ-HDC-8</b>	Box Type, PANASONIC CMOS, 2.2MP HD-SDI C/CS Mount, TDN, True WDR, DPC, Dual Voltage
<b>VZ-HDC-9</b>	Indoor Dome, PANASONIC CMOS, 2.2MP HD-SDI, Vari-focal lens, DN, True WDR, DPC, Dual Voltage
<b>VZ-HDC-M1</b>	Miniature, PANASONIC CMOS, 2.2MP 3G-SDI, 3.7mm Fixed Lens, DN, True WDR, DPC, 12VDC (1080i 59.94)

## SECURITY SOLUTIONS - LENSES

### LENS Series

#### Megapixel Vari Focal

#### BADGER PART NUMBER:

<b>VZ-A338VDCIR-MP</b>	1/3" 1.3MP 3.3-8mm F1.4, DC, IR, CS
<b>VZ-A212VDCIR-3MP</b>	1/3" 3MP 2.8-12mm F1.4, DC, IR, CS



### VARI-FOCAL IR

#### BADGER PART NUMBER:

<b>VZ-A308VDCIR</b>	1/3" 3-8mm F1.2, DC, IR, CS
<b>VZ-A308AVDCIR</b>	1/3" VF 3-8mm F0.95, DC, IR, CS
<b>VZ-A212AVDCIR</b>	1/3" VF 2.7-12mm, DC, IR, CS
<b>VZ-A555VDCIR</b>	1/3" 5-55mm F1.4, DC, IR, CS



### STANDARD VARI-FOCAL

#### BADGER PART NUMBER:

<b>VZ-A163VDC</b>	1/3" 1.6-3.4mm F1.4, DC, CS
<b>VZ-A555VDC</b>	1/3" 5-55mm F1.4, DC, CS







# ONLINE STORE we've got you covered

[www.badgercommunications.com](http://www.badgercommunications.com)

## FREE STANDARD SHIPPING

\*for all orders that qualify for standard ground shipping. some exclusions apply.

## QUOTES

Easily view, create and modify quotes inside our online store. When you're ready you can convert to an order with the click of a button.

## WHAT'S IN STOCK?

Our stock quantities are clearly displayed in real-time.

## ORDER HISTORY

View the order history for your entire company from the ORDER HISTORY tab on our Online Store.

## 715-672-4200

The Badger Communications team is available Monday-Friday 8am-4:30pm.

## Technical and Design Support

The Badger Support Team will help you understand which hardware and software your Avaya systems need to ensure your customer has the features they need.

Save time and headache on your next install by having the Badger team pre-program your next Avaya system.



## TRAINING

Choose our introductory classes to refresh or take your first steps into the world of Avaya and IP Office.

You can even sell an IP Office and program it during training at Badger.