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-NV360 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.

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.

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.

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.

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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 layout. 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

360° Dome
SFV481, SFN480, SW458, SW458MA, SF648, SF638

PT Camera
SW175, SW174W, SW172, ST165, ST162, BL-VT164W, BL-VT164, BL-VP164W, BL-VP164, 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, D=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-visualogging
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 x 3K) HIGH-RESOLUTION PERFORMANCE ENABLES SHARP RENDERING OF OBJECTS AND PEOPLE’S FACES AT THE EDGE SECTIONS OF THE FISHEYE

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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 x 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 daylight/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 (1920x1080) and HD (1280x720). These cameras can record up to 30 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 buildings 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.

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 night 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.

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.

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 model. See the specifications for each model.


**IMAGE COMPENSATION**

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

![Fog Correction](image1.png)

**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-SF271/L, WV-SFY11/L, WV-SX591/L, WV-SX291/L, WV-SX264/L, WV-SX256A/L*

![Coated Area Comparison](image2.png)

**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.

![HLC Comparison](image3.png)

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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 viewable range, notification is sent to other cameras so that the tracking process can be carried out 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 double due to the distorting effect of the dome cover and other causes. The Panasonic WV-SWB68 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 range of the subject.

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 (NU-M300) or N-FRS Management Software (WV-ASM800) 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 mechanical 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-SV131M, WV-SV111M, WV-SV159M, WV-SV158, WV-SK458M, and WV-SV411 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 buses 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 (SPV, 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, optimizing 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.

**Key Benefits**

**INTRUDER DETECTION**
Crossing over the fence

**LOITERING DETECTION**
Objects staying longer than a specified time

**DIRECTION DETECTION**
Objects moving in a specified direction

**SCENE CHANGE DETECTION**
Interference such as blockage of the lens with a cloth or spray paint

**OBJECT DETECTION**
Removed Object Detection

**CROSS LINE DETECTION**
A person who crosses the virtual line to the specified direction

**Actions when an alarm is detected**

Notification sent to the monitoring screen
Alarm notification sent to the recorder and WV-ASM210 management software

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

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## Compatibility Charts

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>WV-SU643</th>
<th>WV-SW594A</th>
<th>WV-SW3978</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>1/3 MDC</td>
<td>1/3 MDC</td>
<td>1/2 MDC</td>
</tr>
<tr>
<td>Codec and Transmission</td>
<td>H.264 / JPEG</td>
<td>H.264 / JPEG</td>
<td>H.264 / JPEG</td>
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<tr>
<td></td>
<td>H.264 multi stream</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>JPEG multi stream</td>
<td>6 (Variable)</td>
<td>6</td>
</tr>
<tr>
<td>Smart Coding</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>16:9</td>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td></td>
<td>4:3</td>
<td>1280 x 720</td>
<td>1280 x 720</td>
</tr>
<tr>
<td>Max. FPS</td>
<td>120</td>
<td>120</td>
<td>30 (2.4 MP)</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>JPEG</td>
<td>60 fps (1080p)</td>
<td>30 fps (1080p)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 fps (1080p)</td>
<td>30 fps (1080p)</td>
</tr>
<tr>
<td>Super Dynamic / WDR / DLC</td>
<td>Super Dynamic</td>
<td>Super D</td>
<td>Super D</td>
</tr>
<tr>
<td>Day/Night</td>
<td>YES (OCR)</td>
<td>YES (OCR)</td>
<td>YES (OCR)</td>
</tr>
<tr>
<td>ABC (Auto Background Focus) / Focus Adjust</td>
<td>Auto Focus</td>
<td>Auto Focus</td>
<td>Auto Focus</td>
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<tr>
<td>Min. Illumination</td>
<td>0.06 lx @ F1.4</td>
<td>0.06 lx @ F1.4</td>
<td>0.06 lx @ F1.4</td>
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<td></td>
<td>0.04 lx @ F1.6</td>
<td>0.04 lx @ F1.6</td>
<td>0.04 lx @ F1.6</td>
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<td>4.3 to 129 mm, F1.6</td>
<td>4.3 to 129 mm, F1.6</td>
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<tr>
<td>Angular field of view</td>
<td>16:9</td>
<td>H.2.3 to 14 deg / V. 1.3 to 30 deg.</td>
<td>H.2.6 to 44 deg / V. 1.4 to 30 deg.</td>
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<tr>
<td></td>
<td>4:3</td>
<td>H.1.8 to 10 deg / V. 1.3 to 30 deg.</td>
<td>H.1.8 to 44 deg / V. 1.4 to 30 deg.</td>
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<td>Pan</td>
<td>Endless</td>
<td>Endless</td>
<td>Endless</td>
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<td>Speed</td>
<td>700 degree/sec</td>
<td>300 degree/sec</td>
<td>300 degree/sec</td>
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<td>Tilt</td>
<td>Upright: -50 to +90 deg / Forward tilt: -90 to +90 deg / Hanging: -50 to -90 deg.</td>
<td>-15 to +115 deg.</td>
<td>-15 to +115 deg.</td>
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<td>Speed</td>
<td>300 degree/sec</td>
<td>300 degree/sec</td>
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<td>JAD Pan-Flop</td>
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<td>—</td>
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<td>Number of Preset Positions</td>
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<td>256</td>
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<td>Focus</td>
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<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Auto Tracking</td>
<td>YES</td>
<td>YES (advanced)</td>
<td>YES (advanced)</td>
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<tr>
<td>Optical Zoom</td>
<td>30x</td>
<td>30x</td>
<td>30x (45x with Extra Zoom at HD)</td>
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<tr>
<td>Digital Zoom</td>
<td>12x</td>
<td>12x</td>
<td>12x</td>
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<tr>
<td>YMD (Video Motion Detection)</td>
<td>YES (4-areas)</td>
<td>YES (4-areas)</td>
<td>YES (4-areas)</td>
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<tr>
<td>i-VMD (Intelligent VMD) (w/extension software)</td>
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<td>YMS</td>
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<td>YES (2-areas)</td>
<td>YES (2-areas)</td>
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<tr>
<td>Max. Connection</td>
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<td>Audio</td>
<td>In (Line)</td>
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<tr>
<td></td>
<td>In (Built-in MIC)</td>
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<td>—</td>
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<tr>
<td></td>
<td>Out</td>
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<td>YES</td>
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<td>Codec</td>
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<td>G.711 / G.726 / AAC</td>
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<td>Audio Detection Alarm</td>
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<td>YES</td>
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<td>SD Card</td>
<td>Slot</td>
<td>Yes (SDXC)</td>
<td>Yes (SDXC)</td>
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<td></td>
<td>Password &amp; After Detection</td>
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<td>—</td>
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<tr>
<td></td>
<td>Audio REC</td>
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<td>External I/O</td>
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<td>YES (D1) (***)</td>
<td>YES (D1) (***)</td>
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<td>Monitor Out</td>
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<td>YES (Composite)</td>
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<td>Vaulting Resistance</td>
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<td>20 J, HT10</td>
<td>20 J, HT10</td>
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<td>Water and Dust Resistance</td>
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<td>IP66 / IP67 / MEMA 4</td>
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<td>-50 to +55 deg.</td>
<td>-50 to +55 deg.</td>
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<td>-50 to +55 deg.</td>
<td>-50 to +55 deg.</td>
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<tr>
<td>Power Source</td>
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<td>24V AC / PoE+</td>
<td>24V AC / PoE+</td>
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<td>Dehumidification Device</td>
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<td>YES</td>
<td>YES</td>
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<td>Other Functions</td>
<td>Built-in heater, Rain wash coating, Auto Eyelid Mechanism, Rainwash mechanism</td>
<td>Built-in heater, Auto Eyelid Mechanism, Rainwash mechanism</td>
<td>Built-in heater, Auto Eyelid Mechanism, Rainwash mechanism</td>
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<td>Mounting Options</td>
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<td>TBA</td>
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</table>

(*) Only for EW REC ***(*) Alarm 1/2/3/4/5/6/7/8/9/10, Alarm 1/2/3/4/5/6/7/8/9/10 *2 (one for each) ***(*) Trimmed Pan-Flop
<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Compatibility Charts</th>
<th>Pan Tilt Zoom</th>
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<table>
<thead>
<tr>
<th>Appearance</th>
<th>[Image]</th>
<th>[Image]</th>
<th>[Image]</th>
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<tbody>
<tr>
<td>Sensor</td>
<td>WV-SW395A</td>
<td>WV-SC580A</td>
<td>WV-SC387A</td>
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<td>Code and Transmission</td>
<td>HD720P</td>
<td>SD1000P</td>
<td>SD720P</td>
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<td>Max. Resolution</td>
<td>1280 x 720</td>
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<td>1280 x 720</td>
</tr>
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<td>Max. FPS</td>
<td>30 fps (1.3 MP)</td>
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<tr>
<td>Day/Night</td>
<td>Super-D</td>
<td>Super-D</td>
<td>Super-D</td>
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<td>A/E (Auto Back Focus/Focus Assist)</td>
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<td>Min. Illumination</td>
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<td>Color 0.03 lx @F1.6</td>
<td>Color 0.34 lx @F1.6</td>
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<tr>
<td>Lens</td>
<td>1~4.7 to 81.6 mm, F1.6</td>
<td>1~4.3 to 119 mm, F1.4</td>
<td>1~4.3 to 119 mm, F1.6</td>
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<tr>
<td>Angular field of view</td>
<td>H: 25° to 75° deg. / V: 19° to 31.9° deg.</td>
<td>H: 25° to 75° deg. / V: 19° to 31.9° deg.</td>
<td>H: 16° to 55° deg. / V: 16° to 38.4° deg.</td>
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<tr>
<td>Pan</td>
<td>Range 0 to +158 deg.</td>
<td>Range 0 to +158 deg.</td>
<td>Range 0 to +158 deg.</td>
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<tr>
<td>Speed</td>
<td>300 deg/sec</td>
<td>300 deg/sec</td>
<td>300 deg/sec</td>
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<tr>
<td>Tilt</td>
<td>Range 25 to +120 deg.</td>
<td>Range 25 to +120 deg.</td>
<td>Range 25 to +120 deg.</td>
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<td>Tilt Speed</td>
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<td>100 deg/sec</td>
<td>100 deg/sec</td>
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<td>Pan Flip</td>
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<tr>
<td>Number of Preset Positions</td>
<td>64</td>
<td>256</td>
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<td>Patrol</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Auto Tracking</td>
<td>Yes (advanced)</td>
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<td>Yes (advanced)</td>
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<tr>
<td>Optical Zoom</td>
<td>10x</td>
<td>30x</td>
<td>30x (with Enlargement x2)</td>
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<tr>
<td>Digital Zoom</td>
<td>12x</td>
<td>12x</td>
<td>12x</td>
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<td>VMoD (Video Motion Detection)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>iVMOD (Intelligent VMoD Inclusion Software)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VDS</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Max. Connections</td>
<td>14</td>
<td>14</td>
<td>14</td>
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<tr>
<td>Audio</td>
<td>In (Level)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>In (Built-in MIC)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Out</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Codec</td>
<td>G.711/G.726</td>
<td>G.711/G.726/AEC(*)</td>
<td>G.711/G.726/AEC(*)</td>
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<tr>
<td>Audio Detection Alarm</td>
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<td>Yes</td>
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<tr>
<td>SD Memory Card</td>
<td>Slot</td>
<td>Yes (SDHC)</td>
<td>Yes (SDXC)</td>
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<tr>
<td>Password &amp; After Detection</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Audio REC</td>
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<td>Yes</td>
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<td>External I/O</td>
<td>Yes <a href="*">1</a></td>
<td>Yes <a href="*">1</a></td>
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<tr>
<td>Monitor Out</td>
<td>Yes [Composite]</td>
<td>Yes [Mini jack]</td>
<td>Yes [Mini jack]</td>
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<tr>
<td>Vandal Resistant</td>
<td>20 L, Ik10</td>
<td>20 L, Ik10</td>
<td>20 L, Ik10</td>
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<tr>
<td>Water and Dust Resistance</td>
<td>IP66</td>
<td>IP66</td>
<td>IP66</td>
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<tr>
<td>Temperature</td>
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<td>-40° to +55° deg.</td>
<td>-40° to +55° deg.</td>
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<td>Power Source</td>
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<td>12 V DC / 50 Hz</td>
<td>12 V DC / 50 Hz</td>
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<tr>
<td>Dehumidification Device</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Other Functions</td>
<td>Built-in heater, Rainproof casing [MP-SK303BA]</td>
<td>Demo --</td>
<td>Demo --</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>see page 66</td>
<td>see pages 66-69</td>
<td>see pages 66-69</td>
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</table>

(*) Only for 32 [W]: [1]: Alarm in [Day/High in], Alarm in [Alarm Out], Alarm in [High]

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.
<table>
<thead>
<tr>
<th>Camera Type</th>
<th>PAN TILT ZOOM</th>
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<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Sensor</td>
<td>1/3 MOS</td>
</tr>
<tr>
<td>Codec and Transmission</td>
<td></td>
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<tr>
<td>Video Codec</td>
<td>H.264/MP@L4/4 JPEG</td>
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<tr>
<td>JPEG multi stream</td>
<td>6</td>
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<tr>
<td>Smart Coding</td>
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<tr>
<td>Max. Resolution</td>
<td>1280 x 720</td>
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<tr>
<td>Max. FPS</td>
<td>200</td>
</tr>
<tr>
<td>Super Dynamic倔</td>
<td>VDR</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (IR)</td>
</tr>
<tr>
<td>Autofocus/Auto Focus</td>
<td>Auto Focus</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>0.5 lx at F1.6</td>
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<tr>
<td>Lens</td>
<td>f=1.7 to 6.7 mm, F1.6</td>
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<tr>
<td>Angular Field of view</td>
<td>16x: 4.2 to 56.2 deg. H: 1.7 to 31.9 deg.</td>
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<tr>
<td>Pan Range</td>
<td>400 deg/s</td>
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<tr>
<td>Tilt Range</td>
<td>50 to 90 deg.</td>
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<tr>
<td>360 Pan/scroll</td>
<td>Yes</td>
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<tr>
<td>Number of Preset Positions</td>
<td>64</td>
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<tr>
<td>Patrol</td>
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<td>Optical Zoom</td>
<td>10x</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>10x</td>
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<tr>
<td>VMD (Video Motion Detection)</td>
<td>Yes</td>
</tr>
<tr>
<td>iVMD (Intelligent VMD)</td>
<td>Yes</td>
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<tr>
<td>VMS</td>
<td>-</td>
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<tr>
<td>Max. Connection</td>
<td>14</td>
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<td>Audio</td>
<td>In (Line)</td>
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<tr>
<td>In (Built-in MIC)</td>
<td>Yes</td>
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<tr>
<td>Out</td>
<td>Yes</td>
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<tr>
<td>Codec</td>
<td>6.71 Hz</td>
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<td>Audio Detection Alarm</td>
<td>Yes (SOHC)</td>
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<td>SD memory Card</td>
<td>Yes (SOHC)</td>
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<tr>
<td>External I/O</td>
<td>Yes (3/7)</td>
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<tr>
<td>Monitor Out</td>
<td>Yes (Mini-jack)</td>
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<tr>
<td>Hardwired Reset</td>
<td>-</td>
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<td>Water and Dust Resistance</td>
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<td>Temperature</td>
<td>-10 to 50 deg.</td>
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<tr>
<td>Power Source</td>
<td>12 V DC/PoE</td>
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<tr>
<td>Dehumidification device</td>
<td>-</td>
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<tr>
<td>Mounting Options</td>
<td>See pages 48, 49</td>
</tr>
</tbody>
</table>

(*) Only for 3D IRC. (**) Alarm I/O (Day/Night), Alarm I/O (Alarm I/O), Alarm I/O (Alarm I/O) (Stereo)
## Compatibility Charts

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Fixed Dome</th>
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<td><strong>Appearance</strong></td>
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<td><a href="#">CVAF</a></td>
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<td>Sensor</td>
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<td>Codec &amp; Transmission</td>
<td>Video Codec: H.264 / JPEG</td>
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<td></td>
<td>H.264 multistream: 4</td>
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<tr>
<td></td>
<td>IP66 multi-stream: 2</td>
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<tr>
<td>Smart Coding</td>
<td>Yes (APP Only)</td>
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<tr>
<td><strong>Max. Resolution</strong></td>
<td>16:9</td>
</tr>
<tr>
<td></td>
<td>4:3</td>
</tr>
<tr>
<td></td>
<td>JPEG</td>
</tr>
<tr>
<td><strong>Super Dynamic /WDR / BLC</strong></td>
<td>WDR</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td><strong>AIH (Auto Back Focus) / Focus Assist</strong></td>
<td>AIH</td>
</tr>
<tr>
<td><strong>Min. Illumination</strong></td>
<td>Color: 0.3 lx @ F1.4</td>
</tr>
<tr>
<td></td>
<td>Color (Sensi up): 0.02 lx @ F1.4</td>
</tr>
<tr>
<td></td>
<td>E/W: 0.8 lx @ F1.6 (1 lux)</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>—</td>
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<tr>
<td><strong>Angular Field of View</strong></td>
<td>16:9</td>
</tr>
<tr>
<td></td>
<td>4:3</td>
</tr>
<tr>
<td><strong>Adjusting Angle</strong></td>
<td>Pan: ±110° ~ ±180°</td>
</tr>
<tr>
<td></td>
<td>Tilt: 0° ~ 0°</td>
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<tr>
<td><strong>Optical Zoom</strong></td>
<td>1x</td>
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<tr>
<td><strong>Digital Zoom</strong></td>
<td>4x</td>
</tr>
<tr>
<td><strong>VMD (Video Motion Detection)</strong></td>
<td>Yes (4-area)</td>
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<tr>
<td><strong>iVMD (Intelligent VMD) &amp; extension software</strong></td>
<td>—</td>
</tr>
<tr>
<td><strong>VIS (VMS)</strong></td>
<td>Yes (8-areas)</td>
</tr>
<tr>
<td><strong>Max. Connection</strong></td>
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<td><strong>Audio</strong></td>
<td>In (Line)</td>
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<tr>
<td></td>
<td>In (Built-in MIC)</td>
</tr>
<tr>
<td></td>
<td>Out</td>
</tr>
<tr>
<td></td>
<td>Audio Detection/Alarm</td>
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<td>Slot: Yes (SDXC)</td>
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<td>Password &amp; Access Detection</td>
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<td>External I/O</td>
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<td></td>
<td>Monitor Out</td>
</tr>
<tr>
<td></td>
<td>Vandal Resistant</td>
</tr>
<tr>
<td></td>
<td>Temperature</td>
</tr>
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<td></td>
<td>Power Source</td>
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<td>Dehumidification Device</td>
</tr>
<tr>
<td></td>
<td>Other Functions</td>
</tr>
<tr>
<td><strong>Mounting Options</strong></td>
<td>See pages 46, 47</td>
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## Compatibility Charts

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<thead>
<tr>
<th>Camera Type</th>
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<td>Sensor</td>
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<td>Video Codec</td>
<td>H.264 / JPEG</td>
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<tr>
<td>H.264 Multi Stream</td>
<td>4</td>
</tr>
<tr>
<td>IP65 Multi Stream</td>
<td>4 Variable</td>
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<tr>
<td>Smart Coding</td>
<td>Yes</td>
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<td>Max. Resolution (14:9)</td>
<td>1920 x 1080 (1*) / 1280 x 720</td>
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<td>Max. Resolution (4:3)</td>
<td>1280 x 720</td>
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<td>Max. FPS Max. Resolution</td>
<td>40fps (1280p)</td>
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<td>JPEG</td>
<td>30fps (1.3 MP)</td>
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<td>Super Dynamic / WDR</td>
<td>Enhanced 50</td>
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<tr>
<td>Day/Night</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td>AIF / Auto Back Focus / Focus Assist</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td>Auto Gain</td>
<td>Yes</td>
</tr>
<tr>
<td>Auto White Balance</td>
<td>Yes</td>
</tr>
<tr>
<td>Auto Digital Zoom</td>
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<tr>
<td>Auto iris</td>
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<td>Manual iris</td>
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<td>Manual zoom</td>
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<td>Manual focus</td>
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<td>Lens</td>
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<td><strong>Other Functions</strong></td>
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<td>Built-in Cooling</td>
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<td>Built-in Power</td>
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<td>Power Source</td>
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<tr>
<td>Built-in Processor</td>
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<tr>
<td>Built-in Activity</td>
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<tr>
<td>Built-in Temperature</td>
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<tr>
<td>Built-in Humidity</td>
<td>Yes</td>
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<tr>
<td>Built-in Noise</td>
<td>Yes</td>
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<tr>
<td>Built-in Vibration</td>
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<td>Built-in Humidity</td>
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<td>Built-in Dust</td>
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<td>Built-in Smoke</td>
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<td>Built-in Water</td>
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<td>Built-in Fire</td>
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<td>Built-in Lightning</td>
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<td>Built-in GPS</td>
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<td>Built-in GPRS</td>
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<td>Built-in 3G</td>
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<tr>
<td>Built-in Wi-Fi</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in Bluetooth</td>
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</tr>
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<td>Built-in NFC</td>
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<td>Built-in USB</td>
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<td>Built-in HDMI</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in SD Card Slot</td>
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</tr>
<tr>
<td>Built-in Ethernet</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in USB</td>
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<tr>
<td>Built-in Wi-Fi</td>
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<tr>
<td>Built-in Bluetooth</td>
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<td>Built-in NFC</td>
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<td>Built-in USB</td>
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<td>Built-in HDMI</td>
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<td>Built-in SD Card Slot</td>
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<td>Built-in Ethernet</td>
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<td>Built-in USB</td>
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<td>Built-in Wi-Fi</td>
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<td>Built-in Bluetooth</td>
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<td>Built-in NFC</td>
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<td>Built-in HDMI</td>
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<td>Built-in SD Card Slot</td>
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<tr>
<td>Built-in Ethernet</td>
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# Compatibility Charts

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<thead>
<tr>
<th>Camera Type</th>
<th>Fixed Dome</th>
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<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Sensor</td>
<td>1/3 MOS</td>
</tr>
<tr>
<td>Codec &amp; Transmission</td>
<td>H.264 / JPEG</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1280 x 720</td>
</tr>
<tr>
<td>Max. FPS @Max. Resolution</td>
<td>30 fps (1000*)</td>
</tr>
<tr>
<td>Super Dynamic / WDR / SLC</td>
<td>WDR</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (Electrical)</td>
</tr>
<tr>
<td>AIF (Auto Back Focus / Focus Assist)</td>
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<td>Min. Illumination</td>
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<td>Lens</td>
<td>f-1.95 mm, F2.2</td>
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<td>Angular Field of View</td>
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<td>Adjusting Angle</td>
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<tr>
<td>Optical Zoom</td>
<td>3x</td>
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<tr>
<td>Digital Zoom</td>
<td>3x</td>
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<tr>
<td>VMD (Video Motion Detection)</td>
<td>Yes (4-areas)</td>
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<tr>
<td>i-VMD (Intelligent VMD w/extension software)</td>
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<tr>
<td>VDS</td>
<td>Yes (8-areas)</td>
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<td>Max. Connection</td>
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<td>Audio</td>
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<tr>
<td>SD Memory Card</td>
<td>Yes (SDXC)</td>
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<td>External I/O</td>
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<td>Monitor Out</td>
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<td>Water &amp; Dust Resistance</td>
<td>IP66/IP67/EN50101/EN50121, EN50128, EN50142, EN50144, EN50155</td>
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<td>Temperature</td>
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<td>Power Source</td>
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<td>Mounting Options</td>
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</table>

(1) Super resolution : Alarm in [s] (on-time & off-time)
(2) Alarm in/out, Alarm in/out, Alarm in/out
(3) Mini jack
(4) IEEE1149.1 / JTAG, IEEE1149.1 / JTAG

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<table>
<thead>
<tr>
<th>CAMERA TYPE</th>
<th>FIXED DOME</th>
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<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td>1/3 MOS</td>
</tr>
<tr>
<td><strong>Codec and Transmission</strong></td>
<td></td>
</tr>
<tr>
<td>Video Codec:</td>
<td>H.264 / JPEG</td>
</tr>
<tr>
<td>JPEG multi stream</td>
<td>4</td>
</tr>
<tr>
<td>H.264 multi stream</td>
<td>4</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Max. Resolution</strong></td>
<td></td>
</tr>
<tr>
<td>16:9</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>4:3</td>
<td>720 x 480</td>
</tr>
<tr>
<td><strong>Max. FPS</strong></td>
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</tr>
<tr>
<td>H.264</td>
<td>30 fps (3 MP)</td>
</tr>
<tr>
<td><strong>Super Dynamic / WDR</strong></td>
<td>Enhanced SD</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td><strong>ABF (Auto Back Focus) / Focus Assist</strong></td>
<td>ABF</td>
</tr>
<tr>
<td><strong>Min. Illumination</strong></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>0.01 lux (WDR)</td>
</tr>
<tr>
<td>Color (Sens up)</td>
<td>0.007 lux (WDR)</td>
</tr>
<tr>
<td>B/W</td>
<td>0.010 lux (WDR)</td>
</tr>
<tr>
<td>B/W (Sens up)</td>
<td>0.007 lux (WDR)</td>
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<td><strong>Lens</strong></td>
<td>1.3 mm (3.6 mm)</td>
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<tr>
<td><strong>Angular field of view</strong></td>
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</tr>
<tr>
<td>4:3</td>
<td>V: 16 to 54 deg.</td>
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<tr>
<td><strong>Adjusting Angle</strong></td>
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</tr>
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<td>Pan</td>
<td>+120 deg (right) to -120 deg (left)</td>
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<tr>
<td>Tilt</td>
<td>+90 deg (up) to -90 deg (down)</td>
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<td><strong>Optical Zoom</strong></td>
<td>3.3x</td>
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<tr>
<td><strong>Digital Zoom</strong></td>
<td>4x</td>
</tr>
<tr>
<td><strong>VMD (Video Motion Detection)</strong></td>
<td>Yes (4 areas)</td>
</tr>
<tr>
<td><strong>F-VMD (Intelligent VMD) [w/association software]</strong></td>
<td>Yes (Typ2)</td>
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<td><strong>VIO</strong></td>
<td>Yes (8 areas)</td>
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<td><strong>Max. Connection</strong></td>
<td>14</td>
</tr>
<tr>
<td><strong>Auto</strong></td>
<td></td>
</tr>
<tr>
<td><strong>In (BNC to MIC)</strong></td>
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</tr>
<tr>
<td><strong>Out</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Codec</strong></td>
<td>G.711 / G.726 / AAC</td>
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<tr>
<td><strong>Audio Detection Alarm</strong></td>
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<tr>
<td><strong>SD memory Card</strong></td>
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<td><strong>Password &amp; Alter Detection</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Audio REC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>External I/O</strong></td>
<td>Yes (3) *2</td>
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<td><strong>Monitor Out</strong></td>
<td>Yes (mini jack)</td>
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<tr>
<td><strong>Vandal Resistant</strong></td>
<td>200, 1000</td>
</tr>
<tr>
<td><strong>WATERPROOF</strong></td>
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<tr>
<td><strong>Temperature</strong></td>
<td>-10 to +50 deg.</td>
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<tr>
<td><strong>Power Source</strong></td>
<td>12 V DC / PoE</td>
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<tr>
<td><strong>Dial/homing device</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Other functions</strong></td>
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</tr>
<tr>
<td><strong>Mounting Options</strong></td>
<td>See pages 46, 47</td>
</tr>
</tbody>
</table>

(1) *2) With Single line; (2) Without; (3) With; (4) Alarm Out (1); Alarm Out (2) (for each)
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## Compatibility Charts

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Fixed Dome</th>
<th>New (Announced May 2014)</th>
<th>New (Announced May 2016)</th>
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<tr>
<td><strong>Sensor</strong></td>
<td>1/3 MOS</td>
<td>1/3 MOS</td>
<td>1/3 MOS</td>
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<tr>
<td><strong>Codec and Transmission</strong></td>
<td>Video Codec: H.264 / JPEG</td>
<td>Video Codec: H.264 / JPEG</td>
<td>Video Codec: H.264 / JPEG</td>
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<td></td>
<td>Codec Multi-stream: 4</td>
<td>4</td>
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<td>JPEG Multi-stream: 6 (Variable)</td>
<td>6 (Variable)</td>
<td>6 (Variable)</td>
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<td></td>
<td>Smart Coding: Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Max. Resolution</strong></td>
<td>16:9: 1020 x 780(1) / 1396 x 720</td>
<td>1020 x 780</td>
<td>1280 x 720</td>
</tr>
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<td></td>
<td>4:3: 1280 x 956</td>
<td>1280 x 956</td>
<td>1280 x 956</td>
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<tr>
<td><strong>Max. FPS @Max. Resolution</strong></td>
<td>H.76C: 6fps (1/30p)</td>
<td>6fps (1/30p)</td>
<td>6fps (1/30p)</td>
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<td></td>
<td>JPEG: 30fps (1.3M)</td>
<td>30fps (1.3M)</td>
<td>30fps (1.3M)</td>
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<tr>
<td><strong>Super Dynamic / WDR / BLC</strong></td>
<td>Enhanced SD</td>
<td>Super Dynamic</td>
<td>Super Dynamic</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Yes (Electrical)</td>
<td>Yes (Electrical)</td>
<td>Yes (Electrical)</td>
</tr>
<tr>
<td><strong>AIO (Auto Back Focus) / Focus Assist</strong></td>
<td>Focus Assist</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Min. Illumination</strong></td>
<td>Color (lum): 0.001 lx @F1.6</td>
<td>0.001 lx @F1.6</td>
<td>0.001 lx @F1.6</td>
</tr>
<tr>
<td></td>
<td>Color (Sensi-up): 0.0007 lx @F1.6</td>
<td>0.0007 lx @F1.6</td>
<td>0.0007 lx @F1.6</td>
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<tr>
<td></td>
<td>B/W (lum): 0.03 lx @F1.6</td>
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<td></td>
<td>B/W (Sensi-up): 0.002 lx @F1.6</td>
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<td>0.002 lx @F1.6</td>
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<td><strong>Lens</strong></td>
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<td>1/2.8 to 10 mm, F1.4</td>
<td>1/2.8 to 10 mm, F1.4</td>
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<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Adjusting Angle</strong></td>
<td>Pan: +120 to -20 deg.</td>
<td>-20 to +20 deg.</td>
<td>-20 to +20 deg.</td>
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<tr>
<td></td>
<td>Tilt: -65 to +65 deg.</td>
<td>-20 to +20 deg.</td>
<td>-20 to +20 deg.</td>
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<tr>
<td><strong>Optical Zoom</strong></td>
<td>3X</td>
<td>—</td>
<td>—</td>
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<tr>
<td><strong>Digital Zoom</strong></td>
<td>4X</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>VMD (Video Motion Detection)</strong></td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
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<tr>
<td><strong>i-VMD (Intelligent VMD) / Intrusion software</strong></td>
<td>Yes</td>
<td>Yes (Type I)</td>
<td>Yes (Type II)</td>
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<td><strong>VIQS</strong></td>
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<td>Yes (8-areas)</td>
<td>Yes (8-areas)</td>
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<td><strong>Max. Connection</strong></td>
<td>14</td>
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<td>14</td>
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<tr>
<td><strong>Audio</strong></td>
<td>In (Line): —</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>In (Build-in MIC): Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Out: —</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td></td>
<td>Audio Detection Alarm: Yes</td>
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<td>Yes</td>
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<tr>
<td><strong>SD Memory Card</strong></td>
<td>Slot: Yes (SDHC)</td>
<td>Yes (SDHC)</td>
<td>Yes (SDHC)</td>
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<td>Password &amp; After Deletion: Yes</td>
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<td>Yes</td>
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<tr>
<td></td>
<td>Audio REC: Yes</td>
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<td>Yes</td>
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<tr>
<td><strong>External I/O</strong></td>
<td>Yes (3) (3-station)</td>
<td>—</td>
<td>—</td>
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<tr>
<td><strong>Monitor Out</strong></td>
<td>Yes (mini jack)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Vandal Resistant</strong></td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td><strong>Water and Dust Resistance</strong></td>
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<td>—</td>
<td>—</td>
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<tr>
<td><strong>Temperature</strong></td>
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<td>0 to +40 deg. C</td>
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<td>PoE</td>
<td>PoE</td>
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<tr>
<td><strong>Dehumidification device</strong></td>
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<tr>
<td><strong>Other Functions</strong></td>
<td>—</td>
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<tr>
<td><strong>Mounting Options</strong></td>
<td>See pages 64, 47</td>
<td>TBA</td>
<td>TBA</td>
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</tbody>
</table>

(*) Both Simple Face and motion detection are switched on.
(1) 3-station (2) Alarm In 1 (Alarm In 2: Antenna adjustment), Alarm In 2 (Alarm In 3: Antenna adjustment)
(3) Alarm In 1 (Alarm In 2: Alarm In 3: Antenna adjustment)
(4) Alarm In 1 (Alarm In 2: Antenna adjustment), Alarm In 2 (Alarm In 3: Antenna adjustment), Alarm In 3 (Anti-Deletion)
<table>
<thead>
<tr>
<th>Camera Type</th>
<th>360° Degree Dome</th>
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<td><strong>Sensor</strong></td>
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</tr>
<tr>
<td>1/2 MOS</td>
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</tr>
<tr>
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<tr>
<td>1/4 MOS</td>
<td>1/4 MOS</td>
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<tr>
<td>1/6 MOS</td>
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<tr>
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<td>JPEG multi stream</td>
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<td>Smart Coding</td>
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<td><strong>Max. Resolution</strong></td>
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<td><strong>Super Dynamic / WDR / BLC</strong></td>
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<td><strong>Min. Illumination</strong></td>
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<tr>
<td>0.3 lx @ F1.0</td>
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<tr>
<td><strong>Adjusting Angle</strong></td>
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<tr>
<td>Pan</td>
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<td>Tilt</td>
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<td><strong>Max. Connection</strong></td>
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<td><strong>Audio</strong></td>
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<td>In (Line)</td>
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<tr>
<td>In (Built-in MIC)</td>
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<tr>
<td>Out</td>
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<td>Audio Detection Alarm</td>
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<tr>
<td>Slot</td>
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<td>Password &amp; Alert Detection</td>
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<tr>
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<td>Yes (3)</td>
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<td><strong>Monitor Out</strong></td>
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<td><strong>Power Source</strong></td>
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<td><strong>Dehumidification device</strong></td>
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<td><strong>Other Functions</strong></td>
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*(1) In VMD / IRIS / WAVE / T6, 1/64 connector, 1/96 connector, 1/128 connector, 1/160 connector, 1/170 connector *(2) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(3) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(4) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(5) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(6) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(7) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each) *(8) Alarm in/Out(left/right), Alarm in Alarm Out (Alarm in Alarm Out) (left for each)

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<td>1/3 MOS</td>
<td>1/3 MOS</td>
<td>1/3 MOS</td>
</tr>
<tr>
<td><strong>Smart Coder</strong></td>
<td>Yes (GOP Only)</td>
<td>Yes (GOP Only)</td>
<td>Yes (GOP Only)</td>
<td>Yes (GOP Only)</td>
</tr>
<tr>
<td><strong>Max Resolution</strong></td>
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<td>1280 x 1024</td>
<td>1280 x 720</td>
</tr>
<tr>
<td><strong>Max FPS</strong></td>
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<td>60fps (1080p)</td>
<td>60fps (720p)</td>
</tr>
<tr>
<td><strong>Super Dynamic / WDR / ILC</strong></td>
<td>WDR</td>
<td>Enhanced SD</td>
<td>Enhanced SD</td>
<td>Enhanced SD</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td><strong>ABF/AF (Auto Back Focus) / Focus Assist</strong></td>
<td>AFB</td>
<td>AFB</td>
<td>AFB</td>
<td>AFB</td>
</tr>
<tr>
<td><strong>Min. Illum.</strong></td>
<td>Color: 0.3 lx @ F1.6</td>
<td>Color: 0.6 lx @ F1.6</td>
<td>Color: 0.4 lx @ F1.3</td>
<td>Color: 0.01 lx @ F1.3</td>
</tr>
<tr>
<td></td>
<td>Color (Sens. up): 0.05 lx (16x)</td>
<td>Color: 0.004 lx (16x)</td>
<td>Color (Sens. up): 0.003 lx (16x)</td>
<td>Color (Sens. up): 0.0027 lx (16x)</td>
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<tr>
<td></td>
<td>E/W: 0 lx @ F1.6</td>
<td>E/W: 0 lx @ F1.8</td>
<td>E/W: 0 lx @ F1.8</td>
<td>E/W: 0 lx @ F1.8</td>
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<tr>
<td><strong>Lens</strong></td>
<td>1.4-2.1 to 75.2 mm, F1.6 - Motorized</td>
<td>1.4-9 to 75 mm, F1.6 - Motorized</td>
<td>2.8-10 to 10 mm, F1.3 - Motorized</td>
<td>2.8-10 to 10 mm, F1.3 - Motorized</td>
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<tr>
<td><strong>Angular Field of View</strong></td>
<td>16:9</td>
<td>7.4 x 15.6 deg.</td>
<td>7.4 x 15.6 deg.</td>
<td>7.4 x 15.6 deg.</td>
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<tr>
<td><strong>Adjusting Angle</strong></td>
<td>Pan</td>
<td>Tilt</td>
<td>Tilt</td>
<td>Tilt</td>
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<tr>
<td><strong>Optical Zoom</strong></td>
<td>6x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td><strong>Digital Zoom</strong></td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
</tr>
<tr>
<td><strong>VMD (Video Motion Detection)</strong></td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
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<tr>
<td><strong>I-VMD (Intelligent VMD) Anti-interference software</strong></td>
<td>Yes (Type 2)</td>
<td>Yes (Type 2)</td>
<td>Yes (Type 2)</td>
<td>Yes (Type 2)</td>
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<tr>
<td><strong>VIDS</strong></td>
<td>Yes (B-area)</td>
<td>Yes (B-area)</td>
<td>Yes (B-area)</td>
<td>Yes (B-area)</td>
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<tr>
<td><strong>Max Connection</strong></td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>In (Line)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>In (Built-in MIC)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Out</strong></td>
<td>YES</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Codex</strong></td>
<td>G.711 / 6.716 / AAC (+2)</td>
<td>G.711 / 6.716 / AAC (+2)</td>
<td>G.711 / 6.716 / AAC (+2)</td>
<td>G.711 / 6.716 / AAC (+2)</td>
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<tr>
<td><strong>Audio Detection Alarm</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Sd memory Card</strong></td>
<td>Yes (SDXC)</td>
<td>Yes (SDXC x 2)</td>
<td>Yes (SDXC x 2)</td>
<td>Yes (SDXC x 2)</td>
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<tr>
<td><strong>Password &amp; Alert Detection</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Audio REC</strong></td>
<td>Yes</td>
<td>Yes (AAC)</td>
<td>Yes (AAC)</td>
<td>Yes (AAC)</td>
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<tr>
<td><strong>External I/O</strong></td>
<td>Yes (3)</td>
<td>Yes (10)</td>
<td>Yes (10)</td>
<td>Yes (10)</td>
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<tr>
<td><strong>Monitor Out</strong></td>
<td>Yes (RCA)</td>
<td>Yes (RCA)</td>
<td>Yes (RCA)</td>
<td>Yes (RCA)</td>
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<tr>
<td><strong>Vandal Resistant</strong></td>
<td>20.1, IK10</td>
<td>20.1, IK10</td>
<td>20.1, IK10</td>
<td>20.1, IK10</td>
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<tr>
<td><strong>Water and Dust Resistance</strong></td>
<td>IP66 / NEMA 4X</td>
<td>IP66 / NEMA 4X</td>
<td>IP66 / NEMA 4X</td>
<td>IP66 / NEMA 4X</td>
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<tr>
<td><strong>Temperature</strong></td>
<td>-40 to +50 deg.</td>
<td>-40 to +50 deg.</td>
<td>-40 to +50 deg.</td>
<td>-40 to +50 deg.</td>
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<tr>
<td><strong>Power Source</strong></td>
<td>12 VDC / PoE</td>
<td>12 VDC / PoE</td>
<td>12 VDC / PoE</td>
<td>12 VDC / PoE</td>
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<tr>
<td><strong>Environmental Conditions</strong></td>
<td>Yes</td>
<td>Yes (1+1)</td>
<td>Yes (1+1)</td>
<td>Yes (1+1)</td>
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<tr>
<td><strong>Other Functions</strong></td>
<td>Built-in heater, Built-in IR LED</td>
<td>Built-in heater, Built-in IR LED</td>
<td>Built-in heater, Built-in IR LED</td>
<td>Built-in heater, Built-in IR LED</td>
</tr>
<tr>
<td><strong>Mounting Options</strong></td>
<td>See page 51</td>
<td>See page 51</td>
<td>See page 51</td>
<td>See page 51</td>
</tr>
</tbody>
</table>

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### Compatibility Charts

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>New</th>
<th>New</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
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<tr>
<td>Sensor</td>
<td>1/3 MOS</td>
<td>1/3 MOS</td>
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<tr>
<td>Code and Transmission</td>
<td>H.264 / JPEG</td>
<td>H.264 / JPEG</td>
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<td>(JPEG) multi stream</td>
<td>6 (Variable)</td>
<td>6 (Variable)</td>
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<tr>
<td>Smart Coding</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Max. Resolution</td>
<td>16:9</td>
<td>16:9</td>
</tr>
<tr>
<td>Max. FPS</td>
<td>60fps (720p)</td>
<td>30fps (3 MP)</td>
</tr>
<tr>
<td>Super Dynamic / WDR / BLC</td>
<td>Enhanced SD</td>
<td>Enhanced SD</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td>AFB (Auto Back Focus) / Focus Assist</td>
<td>AFB</td>
<td>AFB</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>R: 0.11 to Q: 1.3</td>
<td>R: 0.11 to Q: 1.3</td>
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<tr>
<td>Color (Sens up)</td>
<td>0.0027 (1/6a)</td>
<td>0.0027 (1/6a)</td>
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<td>Brightness</td>
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<td>0.003 to Q: 1.3, 0.0007 to (1/6a)</td>
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<td>B/W</td>
<td>0.0027 (1/6a)</td>
<td>0.0027 (1/6a)</td>
</tr>
<tr>
<td>Lens</td>
<td>5-2.8 to 10 mm, F1.6 Motorized</td>
<td>5-2.8 to 10 mm, F1.6</td>
</tr>
<tr>
<td>Angular Field of View</td>
<td>16:9</td>
<td>16:9</td>
</tr>
<tr>
<td>Optic Zoom</td>
<td>3x</td>
<td>3x</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>4x</td>
<td>4x</td>
</tr>
<tr>
<td>VMV (Video Motion Detection)</td>
<td>Yes (4-areas)</td>
<td>Yes (4-areas)</td>
</tr>
<tr>
<td>i-YMD (Intelligent YMD)</td>
<td>Yes (Type2)</td>
<td>Yes (Type2)</td>
</tr>
<tr>
<td>Max. Connection</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Audio</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SD memory Card</td>
<td>Yes (SDHC x 2)</td>
<td>Yes (SDHC x 2)</td>
</tr>
<tr>
<td>External I/O</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Monitor Out</td>
<td>Yes (BNC)</td>
<td>Yes (BNC)</td>
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<tr>
<td>Water and Dust Resistance</td>
<td>IP66 / NEMA 4X</td>
<td>IP66 / NEMA 4X</td>
</tr>
<tr>
<td>Temperature</td>
<td>-40 to +50 deg.</td>
<td>-40 to +50 deg.</td>
</tr>
<tr>
<td>Power Source</td>
<td>12 VDC / PoE</td>
<td>12 VDC / PoE</td>
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<tr>
<td>Dehumidification Device</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>See page 51</td>
<td>See page 51</td>
</tr>
</tbody>
</table>

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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.
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:
1127PB/G/R Visual Alerter (blue, green, red)
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:
3226 FXO Trunk Port Doorphone
3228 FXS Station Port Doorphone
8028 SIP Doorphone
8201 SIP PoE Intercom

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:
8036 SIP Multimedia Intercom
8039 SIP Video Intercom

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:
8061 IP Relay Controller

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Alerting Solutions

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:
8180  SIP Audio Alerter
8186  SIP Horn Speaker, weatherproof
8188  SIP Ceiling Speaker

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:
1825PM  Duet Plus, power supply & 1201 Cord

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:
1186  Horn Speaker 50W, Weatherproof

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:
8300  Controller
8301  Paging Adapter & Scheduler
8373  Zone Paging Adapter (3 zones)

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:
1202  Customer/Emergency Assistance Button

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*For all orders that qualify for standard ground shipping. Some exclusions apply.

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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.

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Our stock quantities are clearly displayed in real-time.

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

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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.
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-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-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

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-0138HC
38" Metal Hinged Cover for C-0138E
BADGER PART NUMBER: C-0138HC

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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 larger 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-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-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

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

Central - Passive RF Products

C-0202
1 in-2 out RF Splitter
BADGER PART NUMBER: C-0202

C-0208
1 in-8 out RF Splitter
BADGER PART NUMBER: C-0208
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SECURITY SOLUTIONS

CENTRAL - PASSIVE RF PRODUCTS

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-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-0215
Home Office Module
- 2-Way RF Cable Modem and 4 110/RJ4Ss 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

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.

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

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-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-0438
Telephone Distribution Module
- Distributes 4 CO lines to 7 locations
- 8 Bridged 110 punchdown connectors
BADGER PART NUMBER: C-0438

C-0439
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

CENTRAL - AMPLIFIED RF PRODUCTS
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-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-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-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-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-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-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-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

View our searchable electronic catalog at: www.CBEHFSDPNNVODBUJPOT.com
**Central - Telephone Products**

**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-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-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-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-0477**
Amphenol to RJ-14 Converter  

**BADGER PART NUMBER:** C-0477

**C-0497**
Prewired Octopus Cable  
- Pre-wired Amphenol snaps onto C-0434. Module has RJ-11/14 jacks on the front.

**BADGER PART NUMBER:** C-0497

**C-0498**
KSU Expansion PCB  
- Optional Expansion Hub adds 8 locations and 2 CO lines

**BADGER PART NUMBER:** C-0498

**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

**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-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

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**Central - Data Products**

**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 Deck Mounting Plate (1)
- C-0538 8x8 Network Hub (2)
- C-0519 8-Port Switch (1)

**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

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**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

**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)

**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

**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

**BADGER PART NUMBER:**
- IR-5000

**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

**BADGER PART NUMBER:**
- IR-4000

**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-2400**
Remote Head IR- Receivers
- 2-Piece design, easy to conceal
- Plasma proof
- Optical and electronic filtering for interference

**BADGER PART NUMBER:**
- IR-2400

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CENTRAL - SPEAKER/IR DISTRIBUTION PRODUCTS

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
BADGER PART NUMBER:
IR-2005

IR-3001
Single IR Emitter
• Single Head IR Emitter
BADGER PART NUMBER:
IR-3001

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

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

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

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

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
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 Grille
- Mounting Template and paint shield included
BADGER PART NUMBER:
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

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

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

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

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

**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

**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

**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 grillees and brackets
- Dimensions: 10.63”H X 7.32”W x 6.30”D
- Retail packaging

BADGER PART NUMBER: OS526

**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

**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

**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-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-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)  
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  
BADGER PART NUMBER: **AB-301W**  
**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**

**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-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-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**

*The AB-202 has (4) emitter outputs. Using (4) IR-3002s yields 8 emitters.
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**Whole House Paging with A-Bus Diagram**

**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

**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:**  
6200-212  White  6204-212  White  
6200-282  Satin Black  6204-282  Black  
6200-222  Polished Brass  6204-222  Polished Brass  
6200-232  Antiqued Brass  6204-232  Antique Brass  
6200-242  Chrome  6204-242  Chrome  
6200-252  Oil Rubbed Bronze  6204-252  Oil Rubbed Bronze  
6200-302  Satin Nickel  6204-302  Satin Nickel  

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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

6127 Vandal Proof IR Color Dome Camera
- High quality 1/3” Sony Hi-Res Super HAD CCD sensor
- 540 TV lines 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

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

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

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

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

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

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

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-43GKIT2 DVR Kit with Outdoor Cameras
- Windows and Mac Compatible
- H.264 for DVR recording and web compression
- 3G mobile phone monitoring supprrts iPhone*, Blackberry*, and Windows*
- 540 TV lines of resolution
BADGER PART NUMBER: DVR-43GKIT2

DVR-43GKIT3 DVR Kit with Indoor Cameras
- Windows and Mac Compatible
- H.264 for DVR recording and web compression
- 3G mobile phone monitoring supprrts iPhone, Blackberry, and Windows
- 540 TV lines of resolution
BADGER PART NUMBER: DVR-43GKIT3

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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:
E2200IR 2 Input Modulator
E3200IR 3 Input Modulator
E4200IR 4 Input Modulator

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

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

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-15WB
Multimedia Cable Amplifier for Wideband CATV Systems
• HDTV high definition digital amplifier
• 25dB 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

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

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-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

View our searchable electronic catalog at: www.CBEHFSDPNNVODBUJPOT.com
TECHNOLOGY - RF AMPLIFIERS AND SPLITTERS

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
BADGER PART NUMBER: CVT-40BID

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)
BADGER PART NUMBER: HS-6

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)
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
BADGER PART NUMBER: HS-8

Line Taps
BADGER PART NUMBER:
TP6DB 6dB Line Tap
- 1dB Loss • DC Passing
TP9DB 9dB Line Tap
- 1dB Loss • DC Passing
TP12DB 12dB Line Tap
- 1dB Loss • DC Passing
TP16DB 16dB Line Tap
- 1dB Loss • DC Passing
TP20DB 20dB Line Tap
- 1dB Loss • DC Passing
TP24DB 24dB Line Tap
- 1dB Loss • DC Passing

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

DP-Series
1/4" thick Solid Brass Plate
- Available in four (4) different versions to suit a variety of systems
(ChanellVision'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
(ChanellVision'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)

SECURITY SOLUTIONS

Every effort has been made to ensure the integrity of this catalog. #BEHFS$PNNVODBUJPO cannot be held responsible for any misrepresentation associated with any products due to omissions, typographic errors or misprints.
TECHNOLOGY - RESIDENTIAL INTERCOMS

Understanding the Model Numbers

<table>
<thead>
<tr>
<th>Part numbering:</th>
<th>DP, IU, and DS3 door plates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>P-0920/P-0921 compatible</td>
</tr>
<tr>
<td></td>
<td>CATS intercom compatible</td>
</tr>
<tr>
<td>212</td>
<td>White</td>
</tr>
<tr>
<td>222</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>232</td>
<td>Antique Brass</td>
</tr>
<tr>
<td>242</td>
<td>Chrome</td>
</tr>
<tr>
<td>252</td>
<td>Oil Rubbed Bronze</td>
</tr>
<tr>
<td>262</td>
<td>Antique Copper*</td>
</tr>
<tr>
<td>262</td>
<td>Black*</td>
</tr>
<tr>
<td>302</td>
<td>Satin Nickel</td>
</tr>
<tr>
<td>0</td>
<td>No camera</td>
</tr>
<tr>
<td>6</td>
<td>Color Camera</td>
</tr>
<tr>
<td>DP</td>
<td>DP-style faceplate - Large</td>
</tr>
<tr>
<td>IU</td>
<td>IU-style faceplate - Single Gang</td>
</tr>
<tr>
<td>DS3</td>
<td>DS-style faceplate - Three Gang</td>
</tr>
</tbody>
</table>

*Not Available in DS3 Series

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DS3-Series
1/4" thick Solid Brass Plate
- Available in three (3) different versions to suit a variety of systems
  (Channel Vision's P-0920/P-0921, Panasonic Compatible and CATS intercom compatible)
- Optional hidden camera available
- 8 code memory • Tamper resistant
- Waterproof mylar speaker and doorbell button
- Flush mount design with no visible screws

BADGER PART NUMBER: P-0920

P-0920
Telephone Entry System
- Provides 2-way conversation between one front door intercom speaker and every telephone in the house
- Seamless call waiting
- Sends a distinctive ring to phones alerting you that a visitor has arrived
- 2 different ring patterns from which to choose
- Compatible for use with the DP and IU-Series front door intercom
- Only 1 pair of wires required or the existing doorbell wire can be used
- Door strike relay option available separately

BADGER PART NUMBER: P-0921

P-0921
2-Door Telephone Entry System
- Doorbell chime option
- Unlock doors or gates remotely
- Whole house audio paging
- Expands easily - supports up to 4-door intercoms

BADGER PART NUMBER: P-0921

ST-0934
CAT5 Whole-House Intercom 4-Room Kit
- Includes: (4) Intercom Stations (ST-2000), (1) Intercom Hub (P-0930), and (1) Master Remote (A0503)
- Broadcast and Room-to-Room Communication
- Control at Station or via Remote Control - CAT5 Wire
- Additional Accessories Available
- Integrates with DP and IU Front Door Intercoms
- Easily Expands up to 24 Stations
- Doorbell Chime Option
- Unlock Doors or Gates Remotely
- A Self-Contained System

BADGER PART NUMBER: ST-0934

DP-9001, DP-9002
Metal Surface Mount Box
- For use with DP-series
- DP-9001 is included with white doorplate
- DP-9002 is included with all other finishes
- Dimensions: 6-7/16"H x 4-3/8"W x 1-3/4"D

BADGER PART NUMBER: DP-9001 White
BADGER PART NUMBER: DP-9002 Black

DP-RBox-III
Metal Flush Mount Rough-In Box
- Metal flush mount rough-in box for DP models
- Dimensions: 6-1/8"H x 4"W x 3-1/4"D

BADGER PART NUMBER: DP-RBOX-III

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**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

**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

**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

**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

**Blank Inserts**  
BADGER PART NUMBER:  
J-I-B-LA  
Blank Insert - Light Almond  
G-I-B-W  
Blank Insert - White  

**J-C3ALA**  
Plate Insert - Light Almond  
- 6P4C, RJ-14, 110  
- Voice Grade  
BADGER PART NUMBER:  
J-C3ALA

**2133**  
F-Type Connector  
- Push and Seal for RG6 (black)  
- Uses 1015 push and seal tool • Waterproof  
BADGER PART NUMBER:  
2133

**3101**  
Cable Box Combiner  
- Maps Modulated Channel around cable box converter  
BADGER PART NUMBER:  
3101

**J-110-Tool**  
110 Punch Down Tool  
- 110 Punch Down Tool (yellow)  
- Jacket Stripper  
- Inexpensive price  
BADGER PART NUMBER:  
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

**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

**J-CSALA**  
Plate Insert - Light Almond  
- CAT5E, 8P8C, 110 • T568A, T568B  
BADGER PART NUMBER:  
J-CSALA

**J-CSAB**  
Plate Insert - Blue  
- CAT5E, 8P8C, 110 • T568A, T568B  
BADGER PART NUMBER:  
J-CSAB

**J-IFC-LA**  
Jack Insert - Light Almond  
- BNC Connector  
BADGER PART NUMBER:  
J-IFC-LA

**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

**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

**J-CSALA**  
Plate Insert - Light Almond  
- 6P4C, RJ-14, 110  
- Voice Grade  
BADGER PART NUMBER:  
J-CSALA

**J-IFC-LA**  
Jack Insert - Light Almond  
- BNC Connector  
BADGER PART NUMBER:  
J-IFC-LA

**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

**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

**J-CSALA**  
Plate Insert - Light Almond  
- CAT5E, 8P8C, 110 • T568A, T568B  
BADGER PART NUMBER:  
J-CSALA

**J-IFC-LA**  
Jack Insert - Light Almond  
- BNC Connector  
BADGER PART NUMBER:  
J-IFC-LA

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FREE STANDARD SHIPPING
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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.

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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.
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 DVR’s
- iPhone, iPad and Android Compatible • Compatible with over 50 brands of IP cameras
- Storage Sold Separately

BADGER PART NUMBER:
- C2THDVREZIP4  HDVR EZIP Series 4 Channel NVR
- C2THDVREZIP8  HDVR EZIP Series 8 Channel NVR
- C2THDVREZIP16  HDVR EZIP Series 16 Channel 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:
- C2THDV24K  HDVR Hybrid DVR 24K Chassis Only
- C2THDV58K  HDVR Hybrid DVR 58K Chassis Only
- C2THDV110K  HDVR Hybrid DVR 110K Chassis Only

Chassis Options: Rackmount
BADGER PART NUMBER:
- C2THDV24K-R  HDVR Hybrid DVR 24K Chassis Only
- C2THDV58K-R  HDVR Hybrid DVR 58K Chassis Only
- C2THDV110K-R  HDVR Hybrid DVR 110K Chassis Only
- C2THDVPRO220K-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

Hard Drives:
BADGER PART NUMBER:
- 300GB-HD
- 1000GB-HD
- 2000GB-HD
- 3000GB-HD

Optional Items:
BADGER PART NUMBER:
- C2THDVRPOS  Point of Sale Capture Box and License (need 1 per register)

View our searchable electronic catalog at: 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

1080P - 2 Megapixel Cameras

C2TA521080LLIPOE
- Anti-Vandal Dome
- 1920x1080
- 2.8-10mm Lens
- Optional Mounts Available, part numbers start with C2TAS
BADGER PART NUMBER: C2TA521080LLIPOE

C2TDC521080IPOE
- Indoor Dome
- 1920x1080
- 2.8-10mm Lens
- Flush Mountable
- Built In Audio
BADGER PART NUMBER: C2TDC521080IPOE

C2TPC1080IPOE
- Professional Body Camera
- 1920x1080
- Built In Audio
- Lens Sold Separately (C2TLENS2885M)
BADGER PART NUMBER: C2TPC1080IPOE

C2TBC221080IPOE
- Outdoor Bullet
- 1920x1080
- 2.8-10mm Lens
BADGER PART NUMBER: C2TBC221080IPOE

C2TPC720IPOE
- 1 Megapixel
- Professional Body Camera
- 1280x720 (720P)
- Built In Audio
- Lens Sold Separately (C2TLENS2885M)
BADGER PART NUMBER: C2TPC720IPOE

MegaPixel Cameras

C2TPTZ13MPIP
- 1.3 Megapixel PTZ
- 18X Optical Zoom
- 1280x960
- 4.7-84.6mm Lens
- Heater/Blower Housing Included
BADGER PART NUMBER: C2TPTZ13MPIP

C2TPC720IPOE
- 1 Megapixel
- Professional Body Camera
- 1280x720 (720P)
- Built In Audio
- Lens Sold Separately (C2TLENS2885M)
BADGER PART NUMBER: 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

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.
1000 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 • USB / Web Back-Up • iPhone, Android, Blackberry Compatible

BADGER PART NUMBER:
C2TDVR1004  4 Channel, 500GB
C2TDVR10041T  4 Channel, 1000GB
C2TDVR10042T  4 Channel, 2000GB
C2TDVR1008  8 Channel, 500GB
C2TDVR10081T  8 Channel, 1000GB
C2TDVR10082T  8 Channel, 2000GB
C2TDVR1016  16 Channel, 500GB
C2TDVR10161T  16 Channel, 1000GB
C2TDVR10162T  16 Channel, 2000GB

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

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 .005 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

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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

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:
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
C2TAD22420-xx 650TVL, 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

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:
C2TA5ULTRA 650TVL, Ultra Low Light
C2TA52CDYNAMICIR 680TVL, WDR, IR
C2TA52650IR 650TVL, IR
C2TA52650 650TVL

Indoor Body Camera
- Wall or Ceiling Mountable with C2TACC721 Mount
- Use Outdoor with Housing C2TAC725HBO06
- Lens Sold Separately
BADGER PART NUMBER:
C2TPCCDYNAMIC 680+ HTVLE, ClearDynamic WDR
C2TPCDNIGHT 600TVL, ClearNight Low Light
C2TPC650NR 650TVL
C2TPC411 420TVL

Lens Models
BADGER PART NUMBER:
C2TLEN5600 2.8-12mm
C2TLEN5601 5-50mm
C2TLEN5603 5-100mm

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

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Indoor PTZ Camera
- 540TVL
- 10X Optical
- 10X Digital Zoom
- Power Supply Included
- Ceiling or Wall Mountable (with optional C2T4WALL mount)

BADGER PART NUMBER: 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

Pan, Tilt & Zoom Accessories
BADGER PART NUMBER:
C2T563 PTZ Speed Dome Keyboard, 3 Axis Joystick
C2TACC53XOCM Outdoor Corner Mount Bracket for C2TPTZ53X
C2TACC53XPOP Pole Mount Bracket for C2TPTZ53X
C2TACC53XPEB Pendant Mount Bracket for C2TPTZ53X
C2TACCPTZ13OCM Outdoor Corner Mount Bracket for C2TPTZ13MIP
C2TACCPTZ13PBE Pole Mount Bracket for C2TPTZ13MIP
C2TACCPTZ13PEB Pendant Mount Bracket for C2TPTZ13MIP

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:
C2TTTESTMON High Resolution Test Monitor, Cable Tester (Coax/Cat5), PTZ Function/Setup, RS485, Multi Meter Tester, 12VDC Output, Rechargeable Battery

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.
C2TWEBTRN 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

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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 GE2FBMSPoE features three selectable SFP 1000Mbps ports and 7 10/100Mbps TX ports that support the IEE 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

ComNet™ High Port Count Managed Ethernet Switches
- Managed Ethernet Switches provide 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 CNGE2FE4MSPoE 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
- GE2FE4MS 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:
CNGE2FE4MSPoE
CNGE2FE4MS

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 (EvDSL) 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

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

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**ComNet™ Ethernet Media Converters with PoE**

The ComNet™ CNFE2MCPOE 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 CNFE2MCPOE 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:
CNFE2MCPOE

**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
CNGE4US
CNFE8FX8US
CNFE8FX4TX4US
CNFE8TX8US
CNGE8US

**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

**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

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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

Trust the Certification
Any solution displaying the ImmerVision Enables logo guarantees complete 360° panomorph dewarping functionality. www.immervisionenables.com

BADGER
PART NUMBER          Description:
• IMV1-1/3 360°       Panomorph lens, DC-Iris
• IMV1-1/3NI 360°     Panomorph lens, No Iris

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<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNB-9000</td>
<td>4K UHD &amp; 12MP Box</td>
<td>12MP @ 20fps / 4K @ 30fps, Dual Codec H.265/H.264/MJPEG, Simple Focus</td>
</tr>
<tr>
<td>PNM-9020V</td>
<td>2MP Panoramic View Multi-Sensor</td>
<td>7.8MP @ 30fps / Stitched Video, H.265/H.264/MJPEG, On-board Analytics</td>
</tr>
<tr>
<td>PNO-9080R</td>
<td>4K IR Bullet</td>
<td>12MP @ 20fps / 4K @ 30fps, Triple Codec H.265/H.264/MJPEG, Simple Focus</td>
</tr>
<tr>
<td>PDN-9060R</td>
<td>4K IR Dome</td>
<td>12MP @ 20fps / 4K @ 30fps, Triple Codec H.265/H.264/MJPEG, Simple Focus</td>
</tr>
<tr>
<td>PNV-9060R</td>
<td>4K IR Vandal Dome</td>
<td>12MP @ 20fps / 4K @ 30fps, Triple Codec H.265/H.264/MJPEG, Simple Focus</td>
</tr>
<tr>
<td>SBN-8000</td>
<td>2MP 20.5x IR PTZ</td>
<td>12MP @ 20fps / 4K @ 30fps, Simple Focus, Optical Zoom</td>
</tr>
<tr>
<td>SNO-8081R</td>
<td>5MP IR Bullet</td>
<td>30fps resolutions, H.265/H.264/MJPEG, Simple Focus, P-Iris</td>
</tr>
<tr>
<td>SNV-8080D</td>
<td>5MP Vandal Dome</td>
<td>30fps resolutions, H.265/H.264/MJPEG, Wide Dynamic Range 120dB</td>
</tr>
<tr>
<td>SNF-8010/8010VM</td>
<td>5MP Box</td>
<td>30fps resolutions, H.265/H.264/MJPEG, Wide Dynamic Range 120dB</td>
</tr>
<tr>
<td>QNO-7080R</td>
<td>4MP IR Bullet</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNO-7030R</td>
<td>4MP IR Bullet</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNO-7101R</td>
<td>4MP IR Vandal Dome</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNV-7080R</td>
<td>4MP IR Vandal Dome</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNV-7030R</td>
<td>4MP IR Vandal Dome</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNV-7010R</td>
<td>4MP IR Vandal Dome</td>
<td>20fps @ 4MP, 30fps @ 2MP, Triple Codec H.265/H.264/MJPEG, 960p Fixed Lens</td>
</tr>
<tr>
<td>QNV-7004</td>
<td>3MP IR Vandal Dome</td>
<td>30fps, H.265/H.264/MJPEG, Wide Dynamic Range 120dB, True Day &amp; Night</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNO-7084R</td>
<td>3MP IR Bullet</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 2.8x Motorized Vari-Focal Lens, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, IK10/IP66</td>
</tr>
<tr>
<td>SNO-7084R</td>
<td>3MP IR Dome/IR</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 2.8x Motorized Vari-Focal Lens, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, IK10/IP66</td>
</tr>
<tr>
<td>SNV-7084R</td>
<td>3MP Vandal Dome/IR</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 2.8x Motorized Vari-Focal Lens, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, IK10/IP66</td>
</tr>
<tr>
<td>SNB-6011B</td>
<td>2MP 2.4mm Conver</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 134° Wide Angle View, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, Multi-crop Streaming, Audio</td>
</tr>
<tr>
<td>SNB-6010A/6010B</td>
<td>2MP 4.6mm Conver</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 71° Wide Angle View, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, Multi-crop Streaming, Audio</td>
</tr>
<tr>
<td>SNB-J-6010</td>
<td>2MP DoorJamb Camera</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, 1/1.9&quot; PS 2.4MP CMOS, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization, Multi-crop Streaming, Durable Steel Construction, Fits Most Standard Door Frames</td>
</tr>
<tr>
<td>SNB-6005</td>
<td>2MP Super Low Light Box</td>
<td>1080p @ 30fps, Dual Code H.264/MJPEG, Simple Focus, P-Iris, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization</td>
</tr>
<tr>
<td>SNB-6004/6003</td>
<td>2MP Box</td>
<td>1080p @ 60fps, Dual Code H.264/MJPEG, Auto Focus, P-Iris, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization</td>
</tr>
<tr>
<td>SNZ-6320</td>
<td>2MP Zoom Box</td>
<td>1080p @ 60fps, Dual Code H.264/MJPEG, 32x Optical Zoom, Wide Dynamic Range 120dB, On-board Analytics, Digital Image Stabilization</td>
</tr>
<tr>
<td>SNO-6084R</td>
<td>2MP IR Dome</td>
<td>1080p @ 30fps, Triple Code H.264/MJPEG, Wide Dynamic Range 120dB, Hallway View, Defocus Detection, LDC, True Day &amp; Night, Built-in IR, IP66/IP10</td>
</tr>
</tbody>
</table>

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## Security Surveillance Solutions

### Analog

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSM-V</td>
<td>Security Surveillance Module for SSM</td>
</tr>
<tr>
<td>SSM-RS</td>
<td>Security Recording Server</td>
</tr>
<tr>
<td>IPOLIS</td>
<td>Mobile Client for SSM</td>
</tr>
<tr>
<td>WiseNet HD+</td>
<td>Mobile viewer for Android/iOS</td>
</tr>
</tbody>
</table>

| SCO-6083R | 2MP Analog IR Bullet |
| SCO-6023R | 2MP Analog IR Dome |
| SCO-6083R | 2MP Analog IR Dome |
| SCO-6083R | 2MP Analog IR Vandal Dome |

| SCV-6023R | 2MP 32x Analog PTZ |
| HCP-6320 | PTZ Camera |
| HCP-6320H | PTZ Camera |
| 128OH (1,000TVL) | PTZ Camera |

| SCV-5083/5082 | 1280H Dome |
| SCV-5083/SCV-5082 | 1280H Dome |
| SCV-5085 | 1280H Dome |
| SCV-5083 | 1280H Dome |

| 960H (700TVL) | 1280H IR Vandal Dome |
| SCB-3003/3001 | 700TV Lines Box |
| SCB-2000/2005 | 700TV Lines Box |
| SCZ-2373 | 680TV Lines, 37x Zoom Box |
| SCZ-2273 | 680TV Lines, 27x Zoom Box |

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### ANALOG

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCD-3083</td>
<td>700TV Lines Dome</td>
<td>700TV Lines Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCD-2082</td>
<td>700TV Lines Dome</td>
<td>700TV Lines Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCD-2021/2022</td>
<td>700TV Lines Dome</td>
<td>700TV Lines Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCD-2042R/2022R</td>
<td>700TV Lines Dome</td>
<td>700TV Lines Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCV-3083</td>
<td>700TV Lines Vandal Dome</td>
<td>700TV Lines Vandal Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-2373</td>
<td>680TV Lines, 37x PTZ</td>
<td>680TV Lines, 37x PTZ - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-2273</td>
<td>680TV Lines, 27x PTZ</td>
<td>680TV Lines, 27x PTZ - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCZ-3250/2250</td>
<td>600TV Lines, 25x Zoom</td>
<td>600TV Lines, 25x Zoom - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-3060/2080</td>
<td>600TV Lines Dome</td>
<td>600TV Lines Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCD-2010</td>
<td>600TV Lines, Vandal IR Dome</td>
<td>600TV Lines, Vandal IR Dome - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-3120VH</td>
<td>600TV Lines, 12x PTZ</td>
<td>600TV Lines, 12x PTZ - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-2120</td>
<td>600TV Lines, 12x PTZ</td>
<td>600TV Lines, 12x PTZ - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
<tr>
<td>SCP-2370RH</td>
<td>600TV Lines, 37x IR PTZ</td>
<td>600TV Lines, 37x IR PTZ - Day &amp; Night (IR), SSNRIII, Over Coax Control</td>
</tr>
</tbody>
</table>

### DVRs

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRD-1694</td>
<td>16CH 1080p Analog HD DVR</td>
<td>16CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-1685</td>
<td>16CH 1080p Analog HD DVR</td>
<td>16CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-1684</td>
<td>16CH 1080p Analog HD DVR</td>
<td>16CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-1680D</td>
<td>16CH 1080p Analog HD DVR</td>
<td>16CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-1676D</td>
<td>16CH 1080p Analog HD DVR</td>
<td>16CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-1642</td>
<td>16CH 960H Real-time</td>
<td>16CH 960H Real-time - Easy User Interface, Common Across all Samsung DVRs, Set Independently for Each Channel</td>
</tr>
<tr>
<td>SRD-893</td>
<td>8CH 1080p Analog HD DVR</td>
<td>8CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-893D</td>
<td>8CH 1080p Analog HD DVR</td>
<td>8CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
<tr>
<td>SRD-880D</td>
<td>8CH 1080p Analog HD DVR</td>
<td>8CH 1080p Analog HD DVR - 1080p Recording Rate, 1CH Audio Output, Enhanced Network Bandwidth up to 64Mbps, 1640 Coax Transmission</td>
</tr>
</tbody>
</table>

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### Security Surveillance Solutions

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<table>
<thead>
<tr>
<th><strong>SRD-854D</strong></th>
<th><strong>SRD-850DC</strong></th>
<th><strong>SRD-842</strong></th>
<th><strong>SRD-840</strong></th>
<th><strong>SRD-494</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8CH CIF Real-time</strong></td>
<td><strong>8CH CIF Real-time</strong></td>
<td><strong>8CH 960H Real-time</strong></td>
<td><strong>8CH CIF Real-time</strong></td>
<td><strong>4CH 1080p Analog HD DVR</strong></td>
</tr>
<tr>
<td>• 8CH Video Inputs</td>
<td>• 8CH Video Inputs</td>
<td>• 8CH Video Inputs</td>
<td>• 8CH Video Inputs</td>
<td>• 4CH Video/Audio Inputs/ 1CH Audio Output</td>
</tr>
<tr>
<td>• Up to 240 bps Recording Rate</td>
<td>• Up to 240 bps Recording Rate</td>
<td>• Up to 400 bps Recording Rate</td>
<td>• Up to 400 bps Recording Rate</td>
<td>• Up to 120 (1080p)fps Recording Rate</td>
</tr>
<tr>
<td>• Max. 6 Internal HDDs</td>
<td>• Max. 6 Internal HDDs</td>
<td>• Easy User Interface, Common Across All Samsung DVRs - GUI/Smart/ Support/ Back Up/ Set-Up</td>
<td>• Internal HDD x 1</td>
<td>• Max. 4 Internal HDDs</td>
</tr>
<tr>
<td>• 8CH Audio Inputs/1CH Audio Output</td>
<td>• 8CH Audio Inputs/1CH Audio Output</td>
<td>• Set Independently for Each Channel - REC/Quality/Resolution</td>
<td>• Compact Product Footprint</td>
<td>• HDDM/VGA Video Output</td>
</tr>
<tr>
<td>• DVD-RW</td>
<td>• DVD-RW</td>
<td>• Privacy Mask Support Each Channel</td>
<td>• Enhanced Network Bandwidth up to 64Mbps</td>
<td>• Enhanced Audio Transmission</td>
</tr>
<tr>
<td>• Touch Interface Front Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th><strong>SRD-493</strong></th>
<th><strong>SRD-476D</strong></th>
<th><strong>SRD-473D</strong></th>
<th><strong>SRD-470D</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>4CH 1080p Analog HD DVR</strong></td>
<td><strong>4CH 1280H Real-time</strong></td>
<td><strong>4CH 960H Real-time</strong></td>
<td><strong>4CH 4CIF Real-time</strong></td>
</tr>
<tr>
<td>• 4CH Video Inputs/1CH Audio Output</td>
<td>• 4CH 1280H Real-time DVR</td>
<td>• 4CH Video Inputs/960H Real-time DVR</td>
<td>• 4CH Video Inputs</td>
</tr>
<tr>
<td>• Up to 1200/1080fps Recording Rate</td>
<td>• Up to 1200/1080fps Recording Rate</td>
<td>• Max. Resolution of 900/960/656/576</td>
<td>• 4CIF Real-time Recording Capability</td>
</tr>
<tr>
<td>• Max. 1 Internal HDDs</td>
<td>• Max. 1 Internal HDDs</td>
<td>• 4CH Smart View Port, 1280x720/960x576</td>
<td>• Max. 1 Internal HDDs</td>
</tr>
<tr>
<td>• HDMI/VGA Video Output</td>
<td>• Video Loopthrough</td>
<td>• Full HD 1080p Video Output Via HDMI</td>
<td>• DVD-RW</td>
</tr>
<tr>
<td>• Enhanced Network Bandwidth up to 32Mbps</td>
<td>• Video Switching, Tampering Detection</td>
<td>• Enhanced Network Bandwidth up to 32Mbps</td>
<td></td>
</tr>
<tr>
<td>• 650ft coax transmission</td>
<td></td>
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### Controllers

**SPC-2000**
- Network Controller
  - Superior System Compatibility
  - Quick & Easy Installation
  - Supports SSM, SmartViewer, NVRs, Netview

**SPC-7000**
- IP System Control Keyboard
  - 5" TFT Touch LCD
  - Control IP Camera/External DVR/DVRs & Matrix Switchers
  - Connect to a System up to 16 Controlers
  - Image Snapshot/Camera/Video Wall/Recorder Control

**SPC-6000**
- System Control Keyboard
  - 5" TFT Touch LCD
  - Control PTZ Dome Cameras, DVRs & Matrix Switchers
  - Connect to 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 Tilt/Swivel/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 4096x2160 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

---

### Lenses

**SLA-E-M1240DN**
- 6MP Day/Night Vari-focal 1/2.7" Lens
  - Design for 6MP CS Mount Surveillance Box Camera
  - Full Glass Optical Composition with Metal Body
  - 6.1-24mm F1.8
  - IR Corrected
  - DC Auto Iris

**SLA-F-M419DN**
- 6MP Day/Night Vari-focal 1/1.8" Lens
  - Design for 6MP CS Mount Surveillance Box Camera
  - Superior Low Light Performance
  - 4.1-16mm F1.6
  - IR Corrected
  - DC Auto Iris

**SLA-F-M1550DN**
- 3MP Day/Night Vari-focal 1/2.7" Lens
  - 115-35mm F1.5
  - F3.3/F1.3 DC Type Auto Iris
  - Auto Iris (DC type)
  - IR Filter
  - Aspherical Lens
  - Resis Compliant
LENSES

SLA-F-M226DN

3MP Day/Night Vari-focal 1/2.7"
- SLA-F-M226DR: f2.2-6mm / F1.3
- F1.6/F1.4/F1.3/F1.0 DC Type Auto Iris
- Auto Iris (DC type)
- MIDI Filter
- Aspherical Lens
- RoHS Compliant

SLA-M21D/M36D/60D

MegaPixel Fixed Lens
- SLA-M-M21D: Super Wide Angle f2.1mm; SLA-M-M36D: f5.6mm; SLA-M-M60D: f10.0mm
- High Quality Megapixel Resolution
- SLA-M-M21D: Compatible with SNV-6013, SNV-6012M; SLA-M-M36D/60D: Compatible with SNV-6013

SLA-3580DN/2812DN

CS-mount Auto Iris Lens
- F1.0/F1.4/F1.3/F1.0 DC Type Auto Iris
- Vari-focal Lens: SLA-3580DN: 2.5 ~ 6mm / 0.1" ~ 0.35"; SLA-2812DN: 2.8 ~ 12mm / 0.11" ~ 0.47"

SLA-M2890DN/2890PN

3MP 1/2.8" CS-mount Auto Iris Megapixel Lens
- F1.2 DC & P-Iris Type Auto Iris
- Vari-focal Lens: 3.1 ~ 8mm / 0.12" ~ 0.31"; P-Iris

SLA-M3180PN

CS-mount Auto Iris Megapixel
- F1.4/F1.2 DC Type Auto Iris
- Vari-focal Lens: 3.1 ~ 8mm / 0.12" ~ 0.31"; P-Iris

SLA-880

1/2" C-mount Motorized
10x Zoom Lens
- VGA resolution
- 6-50mm Motorized Zoom Lens
- F.12 Auto Iris

SLA-550DV

1/3" CS-mount Auto Iris Lens
- 5-50mm Vari-focal Lens
- Auto Iris
- F.1.3 DC Auto Iris

ACCESSORIES CONFIGURATION

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### ACCESSORIES

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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.
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:
FCH11C8WY  Outdoor environmental housing with feed-thru wall/pole mount, includes 100-240Vac input midspan, heater and blower, adjustable sunshield
FCH11C8WQ  Outdoor environmental housing with Thermiq™ Technology heat exchanger, feed-thru wall/pole mount, includes 100-240Vac input midspan, heater and blower, adjustable sunshield
PFH10C8WY  Pressurized tubular housing, includes 100-240Vac input midspan, heater and blower with feed-thru wall/pole mount, adjustable sunshield
DFH10C8WY  Dust-proof tubular housing, includes 100-240Vac input midspan, heater and blower with feed-thru wall/pole mount, adjustable sunshield
SM5C8N  Compact, outdoor surface-mount dome housing for PoE (.af ) enabled fixed and PTZ cameras. 100-240Vac input midspan included
FDW75C8N  Standard outdoor, wall mount dome housing for PTZ cameras. 100-240Vac input 60 W midspan included (FDP75C8N for pendant mount applications)
RHW75C8N  Vandal-resistant outdoor, wall mount dome housing for PTZ cameras. 100-240Vac input 75 W midspan included (RHP75C8N for pendant mount applications)
SSD75C8N  Stainless steel, corrosion-resistant outdoor pendant mount dome housing for PTZ cameras. 100-240Vac input 75 W midspan included
PFDW75C8N  Pressurized, sealed outdoor dome housing for PTZ cameras. 100-240Vac input 75 W midspan included. Wall and pendant mount included.

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

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:
SSDP75CN  Stainless steel dome, pendant mount, no electronics
SSDP75C2N  Stainless steel dome, pendant mount, 24Vac input, heater and blower
SSDP75C2NY  Stainless steel dome, pendant mount, 24Vac input, heater and blower, sunshield
PRESSURIZED MODELS
PSSDP75C2N  Pressurized stainless steel dome housing, pendant mount, 24Vac input, heater and blower
PSSDP75C2NY  Pressurized stainless steel dome housing, pendant mount, 24Vac input, sunshield, heater and blower

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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:

EXPF7C2-3  Pressurized 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
EXSS7C2-3  Corrosion Resistant, Stainless steel 1080P HD PYZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
EXRH7C2-3  Rugged, Vandal Resistant 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection
EXPD7C1-3  Explosion Proof, Purge 1080P HD PTZ camera system, 20x optic zoom, H.264 support, ONVIF, extended temperature range, surge protection

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 prefect 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:

EXVF5C-1  720P, 12x optical zoom, IK10 Vandal resistant with wall / pole mount
EXPF5C-1  720P, 12x optical zoom, IP67 Pressurized with wall / pole mount
EXVF5C-2  1080P, 10x optical zoom, IK10 Vandal resistant with wall / pole mount
EXPF5C-2  1080P, 10x optical zoom, IP67 Pressurized with wall / pole mount

Fixed Thermal Camera

The EXO 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:

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

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:

PB24M24  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
PB24M58  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
VLRM24  Wireless 2.4GHz MIMO access point, 110Vac input and 24V output
VLRM58  Wireless 5.8GHz MIMO access point, 110Vac input and 24V output

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• for all orders that qualify for standard ground shipping, some exclusions apply

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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.
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:
PFH10C2W  Pressurized tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount
PFH10C2WY  Pressurized tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount, adjustable sunshield
PFH10C8WY  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
DFH10C2W  Dust-proof tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount
DFH10C2WY  Dust-proof tubular housing, 24Vac or 12Vdc input, heater and blower with feed-thru wall/pole mount, adjustable sunshield
DFH10C8WY  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:
FCH11C2WQ  Environmental housing with heat exchanger, feed-thru wall/pole mount
FCH11C8WQ  PoE input, with DPA, supports IEEE802.3af cameras, 30 watt midspan included, heater/blower, adjustable sunshield
FCH11C4WQ  24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield
FCH11C4WQ-MM  24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant multi-mode fiber-optic transceiver
FCH11C4WQ-SM  24Vac input, output 802.3af PoE for the camera, heater/blower, adjustable sunshield, MSA compliant single-mode fiber-optic transceiver

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

BADGER PART NUMBER:
PV16N  16 ft. free-standing aluminum pole complete with universal mounting plate, flexible shaft lowering tool, lifting hook, power and data connections and video input
PV18N  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:
P1600  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.
P1800  Solid construction 16 ft. steel pole with 2 ft. transformer base NEMA enclosure. Base includes terminal strip, 115Vac to 24Vac transformer and surge protection
P1800TB  P1800 without NEMA Box or electronics

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.
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.

**ISONAS Powernet™ 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:**
- RC-04-PRX-WK Wallmount Keypad Reader-Controller
- RC-04-MCT-WK Wallmount Keypad Reader-Controller
- RC-04-PRX-W Wallmount Reader-Controller
- RC-04-MCT-W Wallmount Reader-Controller
- RC-04-PRX-M Mullion Reader-Controller
- RC-04-MCT-M Mullion Reader-Controller

**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:**
- PN: RC-03 PRX
- PN: RC-03 PRX K
- PN: RC-03 MCT
- PN: RC-03 MCT K
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:
IPBridge-2 2-Door Model
IPBridge-3 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:
R-1-MCT-W Wallmount Wiegand Reader
R-1-MCT-WK Wallmount Keypad Wiegand Reader
R-1-MCT-M 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:
Cable-10 10 ft. Pure IP Cable
Cable-25 25 ft. Pure IP Cable

Software

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:
PA-C-1-5 Air: Pure Access Cloud, 1 to 5 Door License
PA-C-6-20 Element: Pure Access Cloud, 6 to 20 Door License
PA-C-21-50 Cirrus: Pure Access Cloud, 21 to 50 Door License
PA-C-51-100 Nimbus: Pure Access Cloud, 51 to 100 Door License
PA-C-101-250 Stratus: Pure Access Cloud, 101 to 250 Door License
PA-C-251 Cumulus: Pure Access Cloud, 251+ Door Customer Partitioning
**Security Surveillance Solutions**

**Software**

**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.

@BECP PART 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

View our searchable electronic catalog at: www.badgercommunications.com
**Credentials**

**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 ¾” wide x 7 ¾” tall x 3/16” thick

BADGER PART NUMBER: TK-2-M

**PowerNet™ Cables**
12 pin snap-in connector simplifies installation by allowing pre-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-striped for connections to the door’s components
- Being detachable simplifies the system’s maintenance and troubleshooting

BADGER PART NUMBER: CABLE-POWERNET-xx

**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 ½” X ½” X ¼”
- 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

**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 unsecure 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 ¼” X 1 ¼” X ¾”

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

**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’s™ pigtails. WIM is self-contained, and controlled by the attached PowerNet™

BADGER PART NUMBER: ACC-WIM

**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

*For use with the RC-03

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.
**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 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 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

**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

**BADGER PART NUMBER:**
NV-CLR-024  CLEER24 Switch

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**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

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**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

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View our searchable electronic catalog at: www.badgercommunications.com
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
RS
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
**PIN ACCESS CONTROL LOCKS**

**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 unequaled 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-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 unequaled 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 fingerprint 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

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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

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

View our searchable electronic catalog at: www.badgercommunications.com
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:
VZ-24RTHL 24" LED CCTV Monitor
VZ-27RTHL 27" LED CCTV Monitor
VZ-32RTHL 32" LED CCTV Monitor
VZ-42RTHL 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:
VZ-185LED-E 18.5" LED CCTV Monitor
VZ-185LED-P 18.5" LED CCTV Monitor
VZ-215LED-E 21.5" LED CCTV Monitor
VZ-215LED-P 21.5" LED CCTV Monitor
VZ-215LED-SN 21.5" LED CCTV Monitor
VZ-23LED-E 23" LED CCTV Monitor
VZ-23LED-P 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 / 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:
VZ-15RTV 15" LCD CCTV Monitor
VZ-17RTV 17" LED CCTV Monitor
VZ-19RTV 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:
VZ-097RTC 9.7” LED CCTV Monitor
VZ-15RTC 15” LCD CCTV Monitor
VZ-17RTC 17” LED CCTV Monitor
VZ-19RTC 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:
VZ-PVM-I2W3 23”, White, 24VDC or 120VAC to power, VESA 100x100 and 200x200
VZ-PVM-I2B3 23”, Black, 24VDC or 120VAC to power, VESA 100x100 and 200x200
VZ-PVM-I3W3 27”, White, 24VDC or 120VAC to power, VESA 200x200
VZ-PVM-I3B3 27”, Black, 24VDC or 120VAC to power, VESA 200x200
VZ-PVM-I4W3 32”, White, 24VDC or 120VAC to power, VESA 200x200
VZ-PVM-I4B3 32”, Black, 24VDC or 120VAC to power, VESA 200x200
VZ-MP2 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:
VZ-PVM-I1W4 10”, White, PoE (30W) to power, VESA 75x75
SECURITY SURVEILLANCE SOLUTIONS

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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

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

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.
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

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.
- 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(Time Network 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

View our searchable electronic catalog at: www.badgercommunications.com
SECURITY SOLUTIONS - CAMERAS/RECORDERS

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.

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

LENS Series
Megapixel Vari Focal
BADGER PART NUMBER:
VZ-A338VDCIR-MP 1/3” 1.3MP 3.3-8mm F1.4, DC, IR, CS
VZ-A212VDCIR-3MP 1/3” 3MP 2.8-12mm F1.4, DC, IR, CS

VARI-FOCAL IR
BADGER PART NUMBER:
VZ-A308VDCIR 1/3” 3-8mm F1.2, DC, IR, CS
VZ-A308AVDCIR 1/3”VF 3-8mm F0.95, DC, IR, CS
VZ-A212AVDCIR 1/3”VF 2.7-12mm, DC, IR, CS
VZ-A555VDCIR 1/3”5-55mm F1.4, DC, IR, CS

STANDARD VARI-FOCAL
BADGER PART NUMBER:
VZ-A163VDC 1/3” 1.6-3.4mm F1.4, DC, CS
VZ-A555VDC 1/3”5-55mm F1.4, DC, CS

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www.badgercommunications.com

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