



FLUSH MOUNT (-F Model)



SURFACE MOUNT (-S Model)

ConteraIP[®] MicroDome[®] LX

Installation Manual

FLUSH MOUNT (-F Model)

2.1MP (1080p)	5MP	8MP
AV2856DNIR-F	AV5856DNIR-F	AV8856DNIR-F

SURFACE MOUNT (-S Model)

2.1MP (1080P)	5MP	8MP
AV2856DNIR-S	AV5856DNIR-S	AV8856DNIR-S



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About Our Warranty

Global (3 Year) Limited Warranty

AV COSTAR™ warrants to Purchaser (and only Purchaser) (the “Limited Warranty”), that: (a) each Product shall be free from material defects in material and workmanship for a period of thirty-six (36) months from the date of shipment (the “Warranty Period”); (b) during the Warranty Period, the Products will materially conform with the specification in the applicable documentation; (c) all licensed programs accompanying the Product (the “Licensed Programs”) will materially conform with applicable specifications. Notwithstanding the preceding provisions, AV COSTAR shall have no obligation or responsibility with respect to any Product that (i) has been modified or altered without AV COSTAR’s written authorization; (ii) has not been used in accordance with applicable documentation; (iii) has been subjected to unusual stress, neglect, misuse, abuse, improper storage, testing or connection; or unauthorized repair; or (iv) is no longer covered under the warranty period. AV COSTAR make no warranties or conditions, express, implied, statutory or otherwise, other than the express limited warranties made by AV COSTAR above, and AV COSTAR hereby specifically disclaims all other express, statutory and implied warranties and conditions, including the implied warranties of merchantability, fitness for a particular purpose, non-infringement and the implied condition of satisfactory quality. all licensed programs are licensed on an “as is” basis without warranty. AV COSTAR does not warrant that (i) the operation of the products or parts will be uninterrupted or error free; (ii) the products or parts and documentation will meet the end users’ requirements; (iii) the products or parts will operate in combinations and configurations selected by the end user; other than combinations and configurations with parts or other products authorized by AV COSTAR or (iv) that all licensed program errors will be corrected.

For RMA and Advance Replacement information visit <http://www.avcostar.com>

ConteralIP MicroDome LX

Megapixel Cameras

Camera Overview

The ConteralIP® MicroDome® LX megapixel cameras feature 2.1-(1080p), 5-, or 8- megapixel (MP) resolutions for optimum performance with a day/night mechanical IR cut filter and interchangeable lenses. Regardless of the time of day, the ConteralIP MicroDome LX is prepared for any lighting condition. For applications with poor lighting conditions, Enhanced WDR (wide dynamic range) at 120dB provides the best visual balance to shaded and bright light conditions. For clear color images in low-light, NightView™ offers strong low-light sensitivity for capturing details in extremely poor-lit scenes and is further enhanced in by built-in IR LED illumination. ConteralIP MicroDome LX cameras deliver professional surveillance, with ease of installation and set-up, for a variety of network surveillance requirements. The three-axis lens adjustment provides users with more camera placement options and the remote focus module allows users to adjust the camera focus after installation. An innovative spring arm design makes in-ceiling -F model installations a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. No additional hardware is required.

The ConteralIP MicroDome LX camera series is available in an indoor, in-ceiling housing or in a surface mount, IP66 rated version for indoor and outdoor applications. All models feature a vandal resistant, IK-10 rated cast-aluminum housing with a polycarbonate bubble making it capable of withstanding the equivalent of 55kg (120lbs) of force.

AV Costar was the first to bring H.264 to the mainstream market and recently developed SNAPstream™ (Smart Noise Adaptation and Processing) technology for reducing bandwidth without impacting image quality. Today we are proud to offer our next generation H.265 with SNAPstream+™ smart codec capable of delivering high quality video while saving over 50% of the data rate to reduce or prevent strain on the network.

The MicroSDXC card slot supports up to 1TB of storage capacity for convenient onboard storage. The camera's power can be supplied via a Power-over-Ethernet (PoE - IEEE 802.3af) compliant network cable connection.

The ConteralIP MicroDome LX is ONVIF (Open Network Video Interface Forum) Profile S, G, M, and T compliant, providing interoperability between network video products regardless of manufacturer.

Package Contents

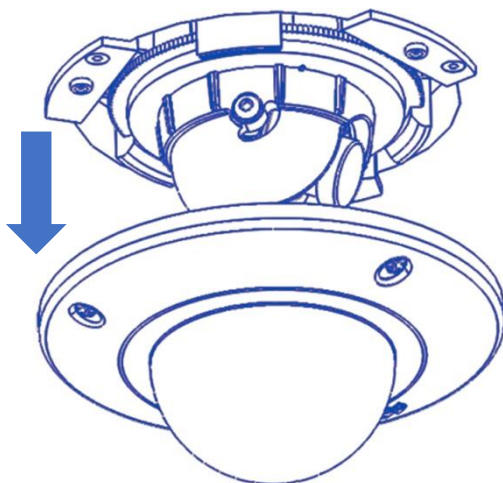
- AV2856DNIR-F / AV5856DNIR-F / AV8856DNIR-F / AV2856DNIR-S / AV5856DNIR-S / AV8856DNIR-S

Description	QTY
AV2856DNIR-F / AV5856DNIR-F / AV8856DNIR-F / AV2856DNIR-S / AV5856DNIR-S / AV8856DNIR-S IP camera	1
Mounting Template	1
Mounting Kit	1
Accessory Pack	1

Installation

In-ceiling (-F Models) Installation

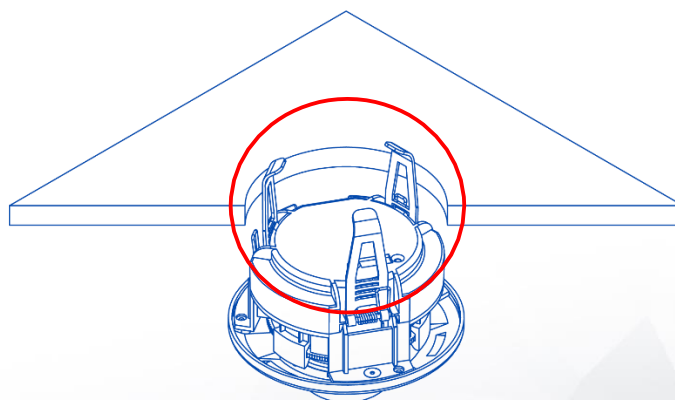
1. Determine a secure location to mount the camera. Cut a hole in the ceiling using the template provided (3.25 inches in diameter) to fit the camera housing.
2. Remove the dome cover from the camera by unscrewing the three captive fasteners.



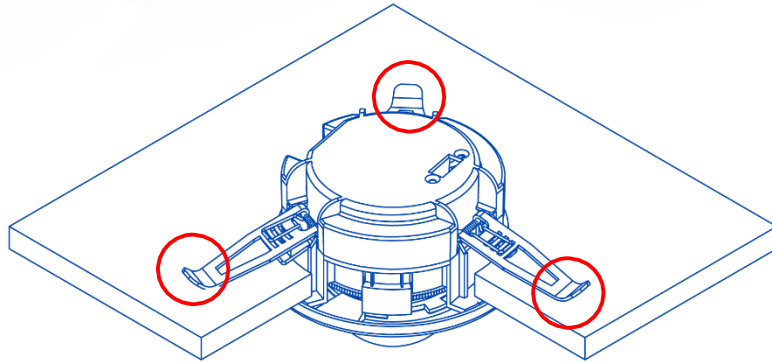
3. Remove the foam insert.

Reference #	Description
1	Captive Fastener
2	Dome Cover
3	Camera Head

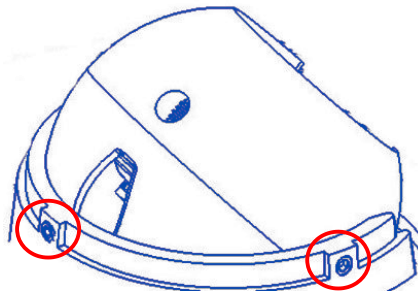
4. Pull the network cable through the ceiling and plug it into the network connector on the camera housing (This can be done at a later time if there is access to the network connector on the camera housing after installation into the ceiling).
5. Check that the indicator LEDs are illuminated to the desired conditions (see LED Indicator table).
6. Push the three spring actuated retention arms to the upward position as shown in the diagram.



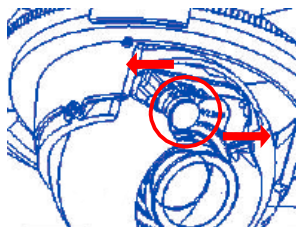
7. Insert the camera housing through the ceiling until the retention arms lock into place.



8. Adjust the pan and tilt to obtain the desired field of view. Then, lock the camera head in place by tightening at least two of the three setscrews with the supplied flat-head screwdriver. Do not over torque the screws.



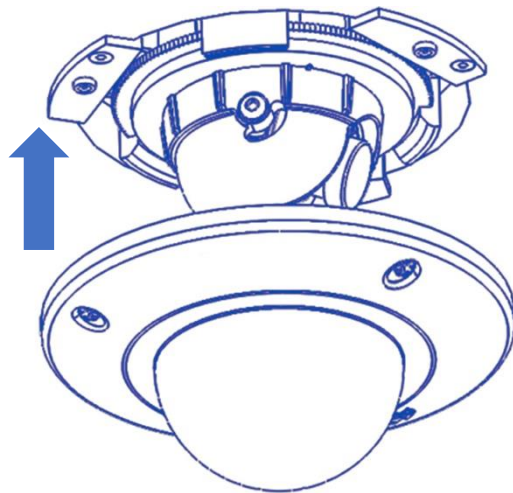
NOTE: Ensure not to press the remote focus motor against the sides of camera module when adjusting the field of view. Refer to the below image.



9. Install the dome cover by aligning the captive fasteners with the mating threaded inserts on the camera housing.



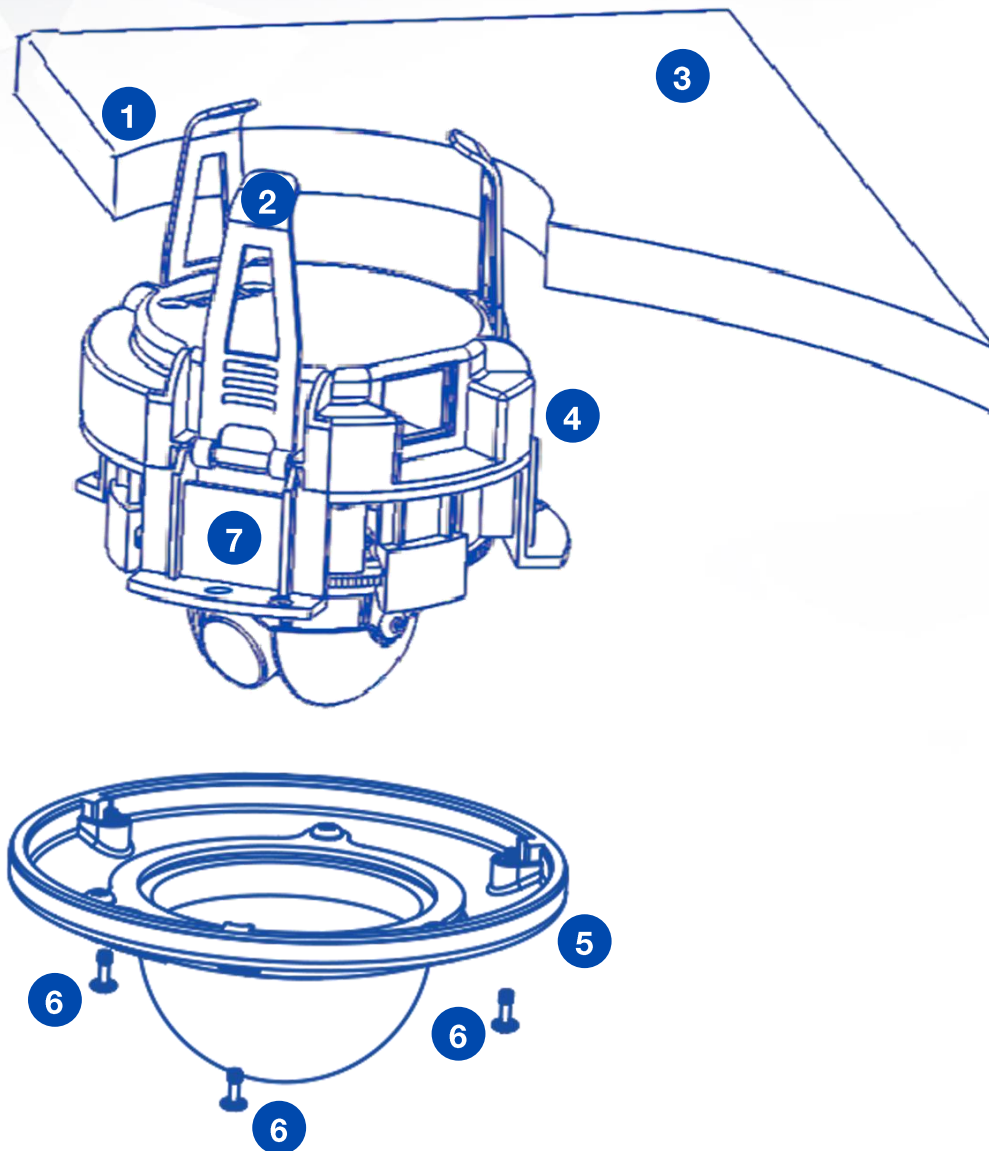
CAUTION! The captive fasteners must be used to properly secure the Dome Cover. Failure to use the captive fasteners may result in serious injury.



Reference #	Description
1	Captive Fastener

10. Tighten the captive fasteners with the supplied Philips head screwdriver to secure the dome cover in place.

NOTE: The supplied security torx screws may also be used.



Reference #	Description
1	3.25" Diameter Hole
2	Retention Arms
3	Ceiling
4	RJ-45 Network Connector with LED Indicators
5	Dome Cover
6	Captive Fasteners
7	Camera Housing

11. Use the Costar Camera Utility located on the AV Costar website <https://sales.arecontvision.com/software.php> for camera discovery and setup (see Instruction Manual located on the website).

Surface Mount (-S Models)

1. Determine a secure location to mount the camera.
2. Remove the dome cover from the camera by unscrewing the three captive fasteners.

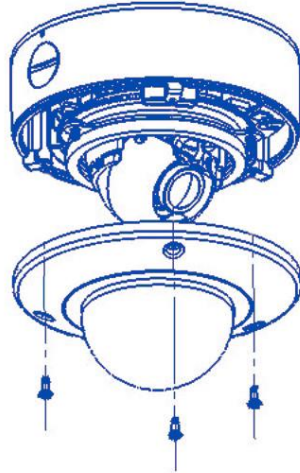


Figure 1: Remove dome cover

3. The camera can be mounted two ways: surface mount or via a junction box to a wall or ceiling. Choose the best method for your installation below:
 - a. **Surface Mount:** use the supplied template to mark three desired holes (there are six holes to choose from; see Figure 3). Then drill the holes with a diameter of 8mm (0.3in.) and insert the supplied anchors into the holes. Attach the camera module and supplied gasket securely using the supplied screws.

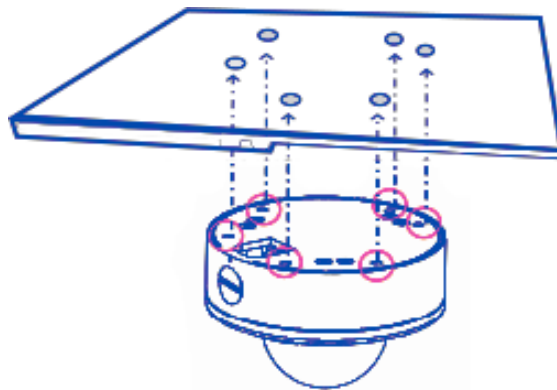


Figure 3: Drill three of the six holes provided.

NOTE: For installations in harsh environments, it is recommended to use all six mounting screws supplied with the camera to create the best seal possible between the camera and the mounting surface using the supplied gasket.

b. Junction Box

1. Install a 4 in. gang box or square metal junction box (not supplied)

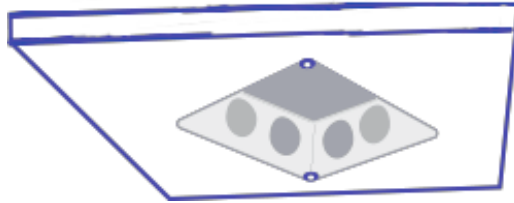
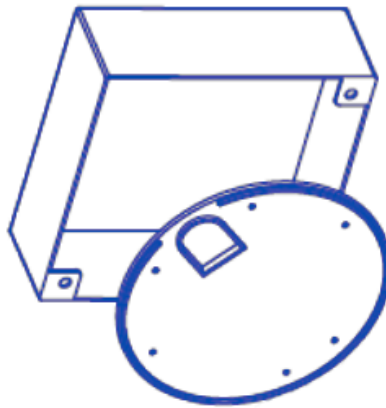


Figure 4: Install 4S junction box (not supplied)

NOTE: Ensure openings for cables are accounted for prior to installation.

2. Insert the supplied gasket inside the gang box.

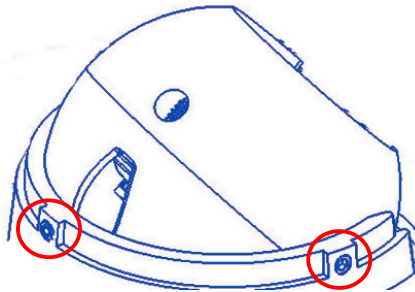


3. Insert the camera flush against the gasket inside the 4S gang box; this will be a tight fit.

NOTE: If you use the side connection of the NPT port, remove the cap covering the side entrance, otherwise; leave the cap in place. If using the NPT port, always use Teflon tape around the threads to ensure proper sealing.

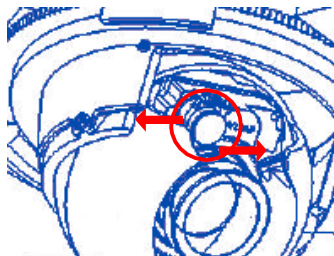
4. Route the cable tree from the camera around the rear of the camera module and secure all cables. See the Connections section for details on how to connect the camera.
5. Check that the indicator LEDs are illuminated to the desired conditions (see LED Indicator table).

6. Adjust the pan and tilt to obtain the desired field of view. Then, lock the camera head in place by tightening at least two of the three setscrews with the supplied flat-head screwdriver.
 - i. Do not over torque the screws.



Lock camera head after adjusting the field of view

NOTE: Ensure not to press the remote focus motor against the sides of the camera module when adjusting the field of view.



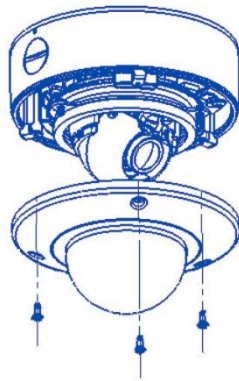
Remote focus motor

7. Install the dome cover by aligning the captive fasteners on the camera housing. If installing inside a 4S junction box, the MCD-4S accessory dome cover plate (sold separately) is required.

NOTE: There's no IR function if using MCD-4S

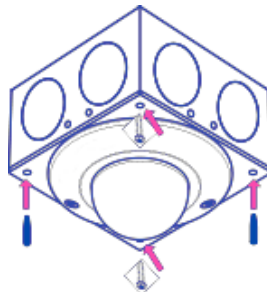


CAUTION! The captive fasteners must be used to properly secure the Dome Cover and Camera Housing. Failure to use the captive fasteners may result in serious injury. When mounting the Dome Cover to the Camera Housing, ensure that the gasket is properly seated and not folded. Failure to do so may result in water and dust ingress. Water damage from improper installation is not covered by the warranty.



Attach dome cover with captive fasteners

8. If using the MCD-4S accessory plate, tighten the two captive fasteners with the supplied Philips head screwdriver to secure the dome cover to the user supplied 4S junction box. Tightly insert the two black plugs supplied with the MCD-4S for the remaining open holes. Cut any excess off the rubber plugs, flush against the dome cover, with a utility knife.

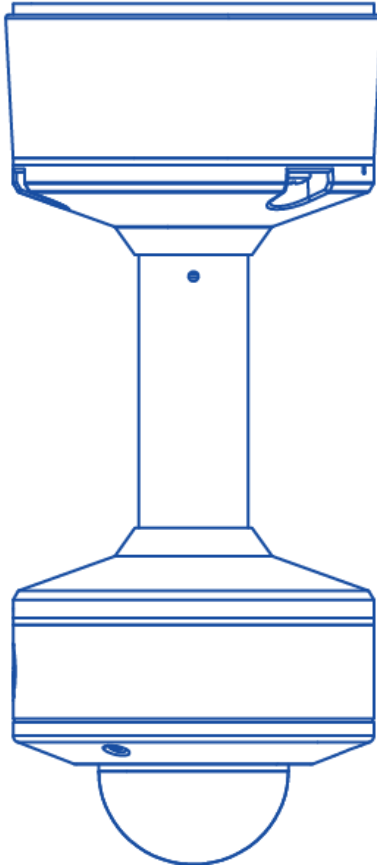


Attach the MCD-4S accessory plate to the user supplied 4S junction box

NOTE: The supplied security torx screws may also be used.

Pendant Mount (-S Models)

For a proper pendant mount installation, the MCD-CMT-W pendant mount is required (sold separately). A pendant mount should only be attached onto hard ceilings such as wood, plastic, metal, and concrete.

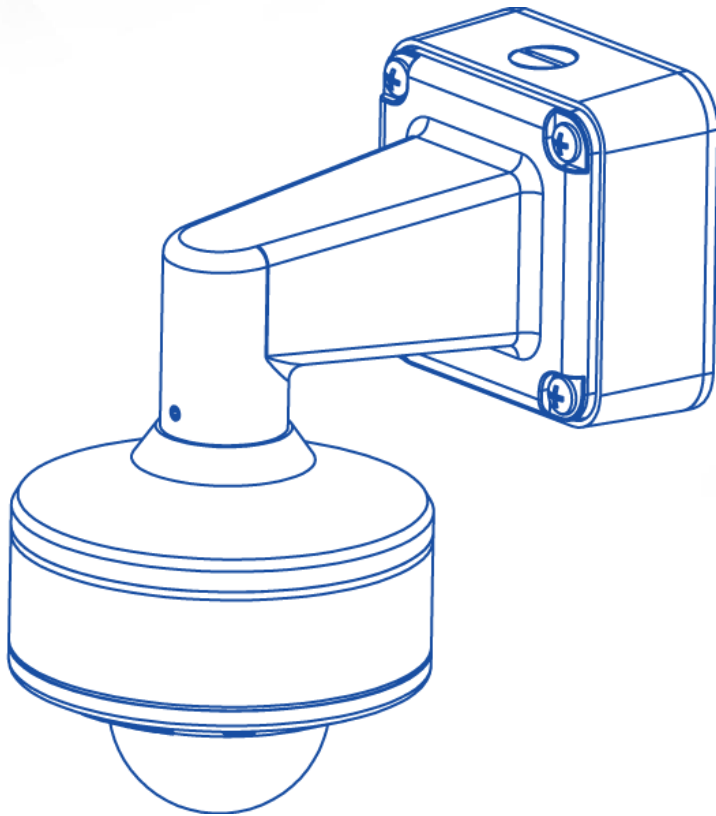


Installation Notes:

1. Three mounting screws are #10x1" wood or sheet metal screws (Three mount anchors also included).
2. Always ensure gaskets are properly seated.
3. Use Teflon tape on threaded interfaces.
4. 3/8" male to 1/2" female NPT adapter included.
5. Mount holes from camera housing to flange are not symmetrical. Alignment features indicated must be properly lined up for mount hole alignment.

Wall Mount (-S Models)

For a proper pendant mount installation, the MCD-WMT-W wall mount is required (sold separately). A wall mount should only be attached onto hard ceilings including wood, plastic, metal, and concrete.



Installation Notes:

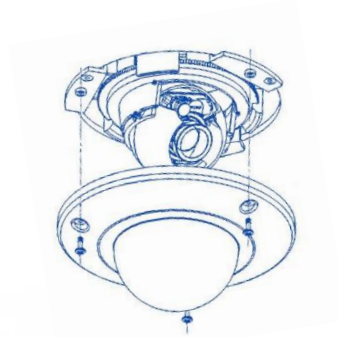
1. Four mounting screws are #10x1" wood or sheet metal screws (Four mount anchors also included).
2. Always ensure gaskets are properly seated.
3. Use Teflon tape on threaded interfaces.
4. 3/8" male to 1/2" female NPT adapter included.
5. Mount holes from camera housing to flange are not symmetrical. Alignment features indicated must be properly lined up for mount hole alignment.

Changing the Lens

1. Remove the dome cover by loosening the captive fasteners with the supplied Philips head screwdriver.

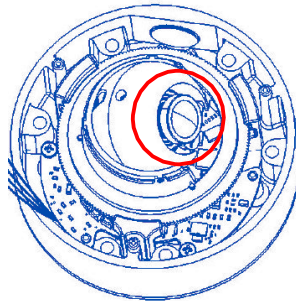


SURFACE MOUNT (IR-S Model)



FLUSH MOUNT (-F Model)

2. Manually unscrew the lens counterclockwise, this may take several seconds.



3. Install spacers if necessary and screw the replacement lens clockwise until you feel some resistance and hit a hard stop.
4. Reinstall the dome cover per instructions outlined above.

Lens Options

NOTE: Spacers are required for some lens options. See table below.

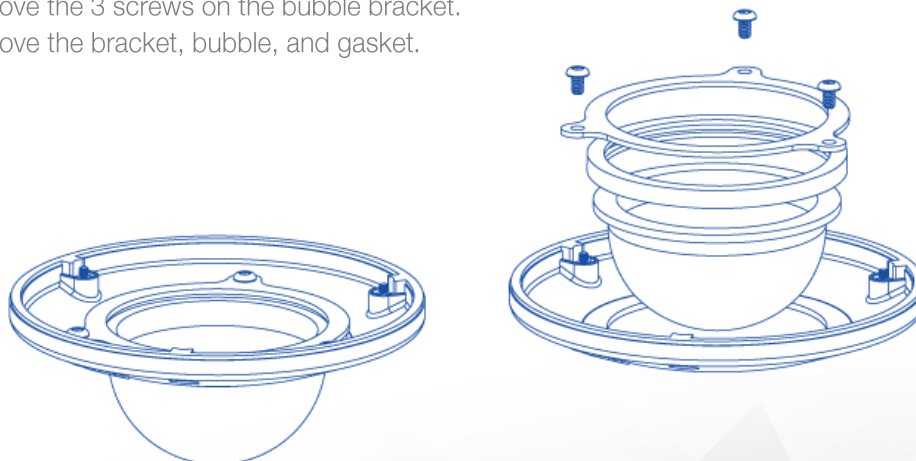
Lens Part Number	Description	Numbers of Spacers Needed
MPM2.4	2.4mm	0
MPM2.8C	2.8mm	0
MPM4.0A	4mm	2
MPM6.0	6mm	2
MPM8.0	8mm	2
MPM12.0A	12mm	2
MPM16.0	16mm	1



Removing the Bubble

For best image quality in an indoor environment the bubble can be easily removed.

1. Remove the 3 screws on the bubble bracket.
2. Remove the bracket, bubble, and gasket.

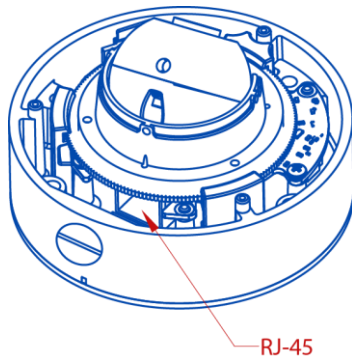


Camera Power Up

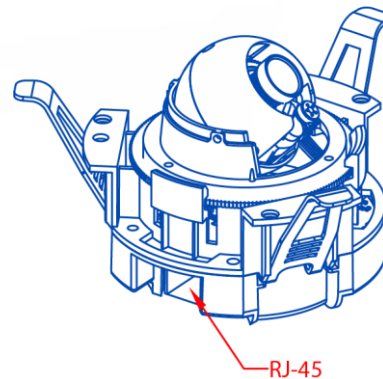
CAUTION! This product should be installed by a qualified service technician in accordance with the National Electrical Code (NEC 800 CC Section 60) or applicable local code. Wiring methods should be in accordance with the National Electrical Code/NFPA 70/ANSI, also with all local codes and authorities having jurisdiction. Wiring should be UL Listed and/or Recognized wire suitable for the application.

CAUTION! Make the connections inside a watertight compartment. Isolate unused power wires individually. After connections are made, ensure that the watertight compartment is tightly closed and cables and conduits are properly sealed to prevent ingress of water.

1. Connect the camera to a PoE port on 100Mbps network PoE switch using an Ethernet cable.



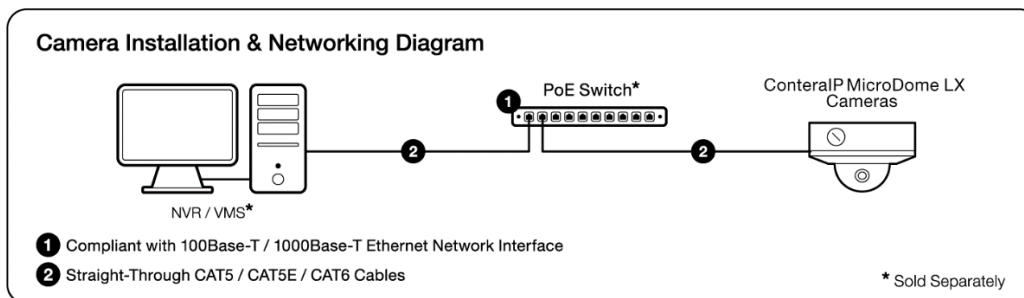
SURFACE MOUNT (-S Model)



FLUSH MOUNT (-F Model)

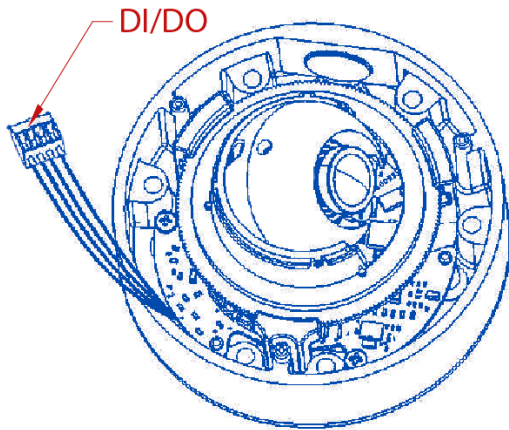
NOTE: This product is intended to be supplied by a Listed Power Adapter or DC power source, rated 48VDC, (Max. 8.5W) for PoE, Tma = 50°C, and the altitude of operation = 2000m. For assistance with purchasing the power source, please contact AV Costar for further information. Ensure the power cord connection of the power adapter at the socket-outlet provides an earthing connection.

2. Connect the PoE switch to your computer's network port by using an ethernet cable.

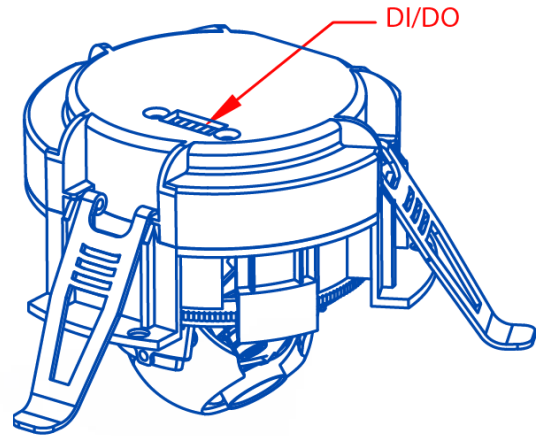


LED	Status	Description
Green	Quick Flashing	Link has been established
	Slow Flashing	Normal operation
None	None	No connection

Alarm I/O Functions



SURFACE MOUNT (-S Model)



FLUSH MOUNT (-F Model)

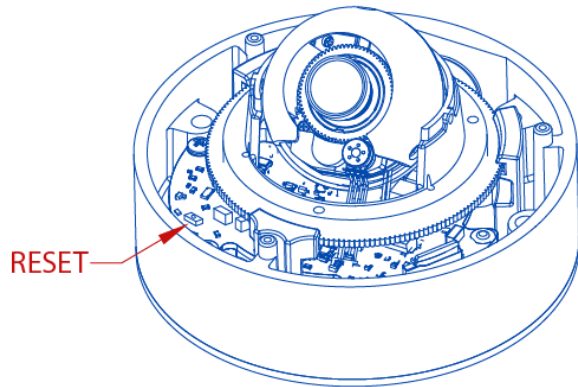
Connect the Alarm In (DI) connector to the alarm input sensor, and then connect the Alarm Out (DO) connector to the alarm output signal.

To avoid any damage, please follow the specification of the part as below:

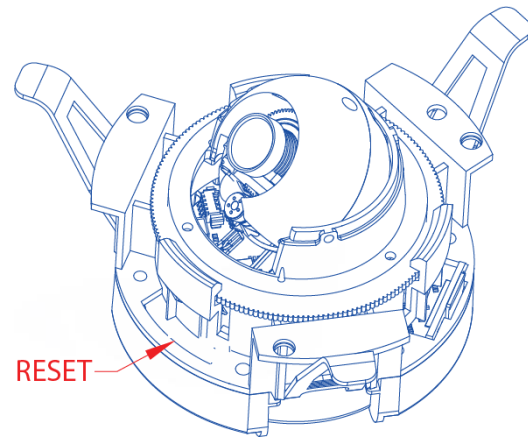
Alarm In (Wet Contact)		Alarm Out (Wet Contact)	
3.5-12 VDC	50mA (max)	0-30 VDC	50mA (max)

Reset to Factory Default

1. Press and hold the reset button for 2 to 5 seconds, then release the reset button.
This resets the camera to the factory default except for the network settings.
2. Press and hold the reset button for more than 5 seconds, then release the reset button.
This resets the camera to the factory default, and this resets the network settings to the factory default.



SURFACE MOUNT (-S Model)

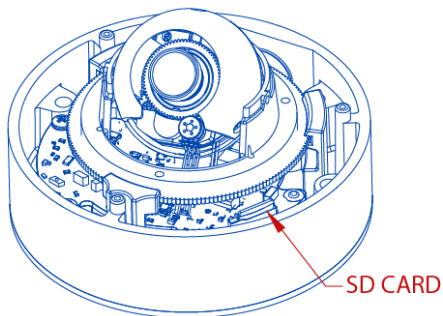


FLUSH MOUNT (-F Model)

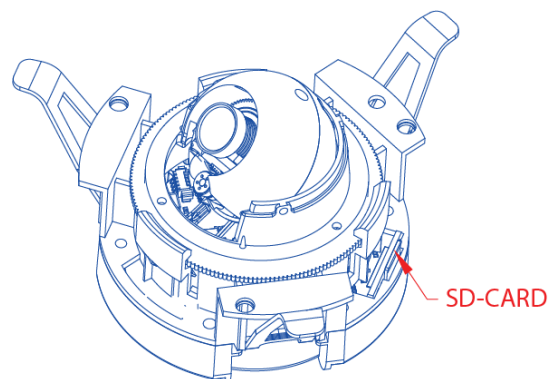
3. The User can also reset the camera to factory default via the camera web interface or Costar Camera Utility.

SD Card Info

MicroSDXC Card Slot



SURFACE MOUNT (-S Model)



FLUSH MOUNT (-F Model)

Camera Discovery, Setup, and Configuration

For camera discovery and setup, the Costar Camera Utility is recommended. The software can be found by scanning the QR code on the camera’s box or at: <http://www.arecontvision.com/software.php>

The Costar Camera Utility can discover cameras, check the status of a camera, change camera settings, import and export camera settings via a .csv file, and update firmware and/or hardware from virtually anywhere with a network connection.

Whether used for large installations that require an update to multiple settings, or smaller installations where only one camera needs a change, the Costar Camera Utility tool is efficient and convenient for mass or single camera uploads.

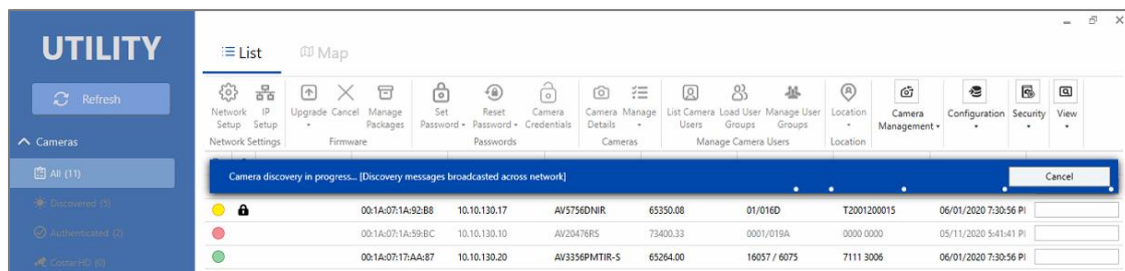
The Costar Camera Utility is compatible with all AV Costar and CostarHD cameras. The user manual for the software is available on our website.

Camera Discovery

1. Locate and double click Costar Utility shortcut on the desktop and login.



2. When the Costar Camera Utility is launched, it will automatically search the network for AV Costar and CostarHD cameras on the network and over a time interval. You can also manually search cameras by clicking the “Refresh” button.



3. You can access the camera web user interface by typing the camera IP address on the preferred web browser.



Web Interface Navigation

The entire menu is located on the top of the web interface.

The following camera settings are available on the top of the menu in the web interface, and the user will be directed to the page that they click on the menu:

- **Image**
 - Basic Image Settings
 - WDR (Wide Dynamic Range) Settings
 - Day/Night Mode
 - IR Control
 - OSD (On-Screen Display)
 - ROI (Regions of Interest)
- **Video**
 - Show Video Type
 - Control Video with mouse
 - Resolution
 - Main Stream Configuration
 - Sub Stream Configuration
 - Third Stream Configuration
- **Focus**
 - Focus Range
- **Network**
 - IP Assignment
 - QoS (Quality of Service)
 - UPnP (Universal Plug and Play)
 - RTSP (Real Time Streaming Protocol)
 - DDNS (Dynamic DNS)
 - SNMP (Simple Network Management Protocol)
 - SSL (Secure Sockets Layer)
 - FTP (File Transfer Protocol)
 - 802.1x
 - LDAP
- **Privacy Mask**
- **Event**
 - Motion Detection
 - Alarm Handler
 - Digital I/O
 - Tamper Detection
 - Network Failure
 - FTP Upload
 - SMTP (Simple Mail Transfer Protocol) Notification
 - Network Storage
 - SD Card

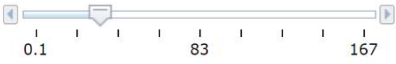
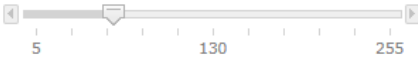

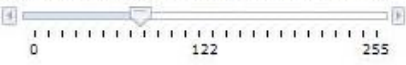
- **Video Analytics**
 - Analytics Settings
 - Object Calibration
 - Event List
 - License
- **System Options**
 - Firmware Upgrade
 - Configuration Management
 - Download Log
 - Reboot & Restore Settings
 - Camera Name
 - Date/Time
- **Administration**
 - Administrator
 - Viewer Management
- **About**
- **Support**

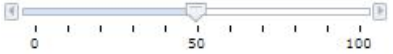
Image


Image
Video
Focus
Network
Privacy Mask
Event
Video Analytics
System Options
Administration
About
Support
Model: AV8856DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73


Menu	Feature	Description
<h3>Image</h3> <hr/> <p>Brightness: <input type="text" value="0"/></p>  <p>Sharpness: <input type="text" value="2"/></p>  <p>Saturation: <input type="text" value="3"/></p>  <p>Contrast: <input type="text" value="50"/></p>  <p>Hue: <input type="text" value="50"/></p> 	<p>Brightness</p> <p>Sharpness</p> <p>Saturation</p> <p>Contrast</p> <p>Hue</p>	<p>Controls the overall brightness of the camera image and works in conjunction with the exposure controls to maintain the image brightness.</p> <p>Controls sharpness and edge definition of the image. Setting this to lower levels may make overall image appear a bit softer while causing lines and edges in the image to look smoother.</p> <p>Controls the color saturation of the image.</p> <p>Manually controls Gamma level (affects the overall luminance of the image).</p> <p>Configures the overall hue of the image, the range is 0 ~ 100. Increasing the value will adjust the image hue towards red. Decreasing the value will adjust the image hue towards blue.</p>
<p>Rotate Image</p> <p> <input checked="" type="radio"/> 0 <input type="radio"/> 90 <input type="radio"/> 180 <input type="radio"/> 270 </p>	<p>Rotate Image: 0, 90, 180, 270</p>	<p>Digitally rotates image 0°, 90°, 180°, or 270°.</p> <p>NOTE: Analytics will only function when image rotation is set to 0° or 180°</p>
<p>Mirror Image</p> <p> <input type="checkbox"/> Flip Vertically <input type="checkbox"/> Flip Horizontally <input checked="" type="checkbox"/> Auto White Balance </p>	<p>Mirror Image: Flip Vertically Flip Horizontally</p> <p>Auto White Balance</p>	<p>Flips the image horizontally (flip left-to-right) or vertically (flip top-to- bottom). They can be selected at the same time.</p> <p>Checkbox enables the automatic white balance feature of camera, which will automatically remove unrealistic color cast so that white color is rendered white in the image.</p>

<p>WDR Mode</p> <p><input checked="" type="radio"/> Auto <input type="radio"/> HDR : <input type="text" value="10"/></p> <p><input type="radio"/> DWDR <input type="radio"/> LDR <input type="radio"/> Manual</p> <p>DAY <input type="text" value="LDR"/></p> <p>LOW LIGHT <input type="text" value="LDR"/></p> <p>B/W <input type="text" value="LDR"/></p> <p><input checked="" type="checkbox"/> Auto Exposure</p>	<p>Auto</p> <p>HDR</p> <p>DWDR</p> <p>LDR</p> <p>Manual DAY LOW LIGHT B/W</p> <p>Auto Exposure</p>	<p>Auto detects bright backlight, glare or high contrast lighting and automatically selects the WDR level.</p> <p>Manually adjusts the intensity of backlight compensation.</p> <p>Digital WDR (DWDR) is to enhance dark areas by adjusting the gamma value.</p> <p>Will not combine long and short exposures into one frame, resulting in better low light performance.</p> <p>Allows manual configuration of WDR by selecting the WDR level for the three lighting environment types (DAY, LOW LIGHT, B/W). The choices for each lighting environment are the same as the choices above LDR, AUTO, HDR, DWDR.</p> <p>Note: Manually adjust the HDR backlight compensation in the main HDR section above before selecting HDR for a lighting environment.</p> <p>Automatically adjusts illumination and exposure values.</p>
<p>Stream Profiles</p> <p><input type="radio"/> Balanced Mode <input checked="" type="checkbox"/> Slow Shutter <input type="radio"/> Quality Mode <input type="radio"/> Moonlight Mode <input checked="" type="radio"/> Custom Exposure Mode</p> <p>Exposure (ms): <input type="text" value="33"/></p> <p><input type="text" value="0.1"/> <input type="text" value="83"/> <input type="text" value="167"/></p> <p>Shutter Speed <input type="text" value="1/30"/></p>	<p>Stream Profiles: Balance Mode –Slow Shutter Quality Mode</p>	<p>Balanced Mode: Limits exposure time from 0.1ms to 66ms. The camera will keep highest FPS when Slow Shutter is unchecked.</p> <p>Quality Mode: Limits exposure time from 0.1ms to 200ms. This mode is a good compromise between reducing noise and motion blur under most lighting conditions, but with an increase in motion blur under low light conditions.</p>

<p>Stream Profiles</p> <p> <input type="radio"/> Balanced Mode <input checked="" type="checkbox"/> Slow Shutter <input type="radio"/> Quality Mode <input type="radio"/> Moonlight Mode <input checked="" type="radio"/> Custom Exposure Mode </p> <p>Exposure (ms): <input type="text" value="33"/></p>  <p>Shutter Speed <input type="text" value="1/30"/></p>	<p>Moonlight Mode</p> <p>Custom Exposure Mode</p>	<p>Moonlight Mode: Limits exposure time from 20ms to 500ms. This mode produces the best image quality under very low light conditions with the least amount of image noise. The trade-off is in favor of low noise at the expense of high motion blur.</p> <p>Custom Exposure Mode: Enables manual setting of exposure time between 0.1 and 167ms using the manual entry field, the slider, or the pull-down menu. Shorter exposure times reduces motion blur for applications such as monitoring fast moving objects and reading license plates. The trade-off is an increased level of noise. It is recommended that this mode be used only when there is constant scene illumination sufficient to provide a quality image.</p>
<p>Lighting Compensation Frequency</p> <p> <input type="radio"/> 50hz <input checked="" type="radio"/> 60hz <input type="radio"/> Custom <small>(Custom option is only available if WDR Mode is set to LDR and Auto Exposure is enabled.)</small> </p> <p>Frequency (Hz): <input type="text" value="60"/></p> 	<p>Lighting Compensation Frequency:</p> <p>50hz, 60hz, Custom</p>	<p>Prevents flicker caused by the power line frequency of lighting. Chooses 50Hz for Europe and China and 60Hz for US and Japan. This parameter will have no effect when the dominate light is sunlight. Or, user can select frequency between 5Hz and 255Hz. It will be enabled when user select "Custom".</p>
<p>Day/Night Mode</p> <p><input checked="" type="radio"/> Automatic</p> <p>Day to Night Switching Level: <input type="text" value="40"/></p> <p><small>*Selecting higher value for switching at higher lux level.</small></p>  <p>Night to Day Switching Level: <input type="text" value="80"/></p> <p><small>*Selecting higher value for switching at higher lux level.</small></p>  <p> <input type="radio"/> Day <input type="radio"/> Night <input checked="" type="radio"/> Schedule Day Mode </p> <p>Start: <input type="text" value="6"/> : <input type="text" value="0"/> (hh:mm)</p> <p>End: <input type="text" value="18"/> : <input type="text" value="0"/> (hh:mm)</p>	<p>Day/Night Mode:</p> <p>Automatic</p> <p>Day</p> <p>Night</p> <p>Schedule Day Mode</p>	<p>Automatic: Enables the camera to automatically switch from day mode to night mode. User can define the switching level from Day to Night or Night to Day.</p> <p>Day: Forces the camera to stay in day mode.</p> <p>Night: Forces the camera to stay in night mode.</p> <p>Schedule Day Mode: User defined times that the camera remains in night mode.</p>

<p>IR Control</p> <p> <input checked="" type="radio"/> Smart IR <input type="radio"/> On <input type="radio"/> Off </p> <p>IR Level: <input type="text" value="50"/></p> 	<p>IR control:</p> <p>Smart IR</p> <p>On</p> <p>Off</p> <p>IR Level</p>	<p>Smart IR: Automatically adjusts output in response to the distance of an object in view to prevent overexposure when the object is very close to the camera.</p> <p>On/ Off: Manually turns on or off the IR LED array.</p> <p>IR Level: Manually adjusts the IR intensity.</p>
<p style="text-align: center;">OSD</p> <p>Camera Name</p> <p><input type="text" value="Network Camera"/></p> <p>Background</p> <p><input type="checkbox"/> Enable Font Border</p> <p>Text color: <input type="text" value="White"/></p> <p>OSD to be shown on</p> <p> <input checked="" type="checkbox"/> Main Stream <input checked="" type="checkbox"/> Sub Stream <input checked="" type="checkbox"/> 3rd Stream-Jpeg </p> <p>Text Overlay</p> <p>Top Left <input type="text" value="OFF"/></p> <p>Top Right <input type="text" value="OFF"/></p> <p>Bottom Left <input type="text" value="OFF"/></p> <p>Bottom Right <input type="text" value="OFF"/></p> <p><input type="button" value="Apply"/></p>	<p>Camera Name</p> <p>Background</p> <p>Enable Font Border</p> <p>Text Color</p> <p>Text Overlay</p> <p>Off</p> <p>Date/Time</p> <p>Camera Name</p> <p>Camera Name + Date/Time</p> <p>Custom Text</p>	<p>Specifies a name for the camera. The maximum length is 32 characters.</p> <p>Enables a border for the text overlay.</p> <p>Options are Black, White, Green, or Yellow.</p> <p>There are four content positions (Top Left, Top Right, Bottom Left and Bottom Right) to display the text overlay.</p> <p>Date/ Time: Displays the current date/time. It will force the camera to synchronize the date/time information.</p> <p>Camera Name: Displays the camera name you set.</p> <p>Camera Name + Date/Time: Displays both camera name and date/time information.</p> <p>Custom Text: Displays a customized text.</p>

ROI ▼	ROI (Regions of Interest)	ROI (Regions of Interest) is used to select which areas will be monitored and recorded with higher image quality while using lower image quality for other non-ROI zones to save bandwidth and storage.
<p>* Create custom regions of interest by enabling zones below and selecting the desired quality level. Then create the ROI by dragging the mouse over the live image and press "Save Area" or "Del Area".</p> <p>Stream: Main Stream ▼</p> <p>ROI Zone 1: <input type="checkbox"/> Enable Medium ▼ Save Area Del Area</p> <p>ROI Zone 2: <input type="checkbox"/> Enable Medium ▼ Save Area Del Area</p> <p>ROI Zone 3: <input type="checkbox"/> Enable Medium ▼ Save Area Del Area</p> <p>ROI Zone 4: <input type="checkbox"/> Enable Medium ▼ Save Area Del Area</p> <p>ROI Zone 5: <input type="checkbox"/> Enable Medium ▼ Save Area Del Area</p>	<p>ROI (Regions of Interest)</p>	<p>ROI (Regions of Interest) is used to select which areas will be monitored and recorded with higher image quality while using lower image quality for other non-ROI zones to save bandwidth and storage.</p> <p>To setup the ROI:</p> <ol style="list-style-type: none"> 1. Select Main Stream or Sub Stream 2. Enable zones (up to five zones) and select the desired quality level (High, Medium, or Low). 3. Create the ROI by dragging the mouse over the live image 4. Press Save Area or Del Area.


Menu	Feature	Description
<p>Video</p> <hr/> <p>Show Video Type</p> <p> <input type="radio"/> Disable Video <input checked="" type="radio"/> MJPEG over HTTP <input type="radio"/> H.264 over RTP/UDP </p> <p>* For H.264 streaming, please make sure ActiveX Plugin is installed during VLC installation and avxlc.dll is at exactly the same path as C:\Program Files (x86)\VideoLAN\VLC\avxlc.dll</p> <p><input type="checkbox"/> Fit Video to Window</p> <p>Snapshot</p>  <p>Control Video with Mouse</p> <p> <input checked="" type="radio"/> No Control <input type="radio"/> Digital Zoom <input type="radio"/> ROI Exposure Reference </p> <p> * Mouse-related control requires running MJPEG video * Click and move to select window to set. * Double click to reset to default settings. * ROI Exposure Reference is only available in LDR mode. </p>	<p>Show Video Type:</p> <p>Disable Video</p> <p>MJPEG over HTTP</p> <p>H.264 over RTP/UDP</p>	<p>Disable Video: Disables live video on the screen.</p> <p>MJPEG over HTTP: This radio button is the default browser display option. No plugin is required as most browsers can decode MJPEG images.</p> <p>H.264 over RTP/UDP: Displays video using H.264. If viewing this way for the first time you will see the following prompt to download the necessary browser plugin to display the video in the browser using this compression.</p>
	Fit Video to Window	Scales the full field of view image to fit the browser window. When in default unselected images will be displayed in the browser at VGA resolution.
	Snapshot	Takes a snapshot of the current video.
	Control Video with Mouse	Radio buttons control various functions using the mouse to select them on screen. Whichever function is selected can be controlled by left clicking in the image with the mouse and dragging to select an image region relevant to the corresponding control function.
	No Control PTZ	No Control: Disables mouse control of these functions.
	ROI Exposure Reference	PTZ: Zooms in the selected region. Double clicks on the image will restore the image to default. ROI Reference: Creates a custom exposure reference using the selected region to customize backlight.
<p>Resolution</p> <p>Left : <input type="text" value="0"/></p> <p>Top : <input type="text" value="0"/></p> <p>Right : <input type="text" value="1920"/></p> <p>Bottom : <input type="text" value="1080"/></p> <p><input type="button" value="Preview"/> <input type="button" value="Apply"/></p>	<p>Resolution:</p> <p>Left</p> <p>Top</p> <p>Right</p> <p>Bottom</p>	<p>Controls the image size and image cropping features.</p> <p>Left, Top, Right, and Bottom numeric fields set custom image size cropping and crop area coordinates in pixels. Supported values are 0 to maximum resolution in pixels (maximum varies based on the sensor resolution being cropped)</p>

<p>Main Stream</p> <p>Video Compression</p> <p><input type="radio"/> H.265</p> <p><input checked="" type="radio"/> H.264</p> <p>Resolution</p> <p><input checked="" type="radio"/> 3840x2160</p> <p><input type="radio"/> 2560x1440</p> <p><input type="radio"/> 1920x1080</p> <p><input type="checkbox"/> Enable SNAPstream+™</p> <p><input type="radio"/> Variable Bitrate</p> <p><input checked="" type="radio"/> Maximum Bitrate</p> <p>(512~8000 kbps) <input type="text" value="4000"/></p> <p>H.264 Quality (1..10) : <input type="text" value="4"/></p> <p><small>* 10 - lowest quality, 1 - highest quality</small></p> <p><input type="radio"/> Constant Bitrate</p> <p>Bitrate : <input type="text" value="4000"/> (512~8000 kbps)</p> <p>Frames Per Seconds: <input type="text" value="30"/> (1~30)</p> <p>GOP Length : <input type="text" value="30"/> (1~120)</p> <p><input type="button" value="Apply"/></p> <p><small>* "Apply" will apply changes for all three streams settings to the camera.</small></p>	<p>Video Compression:</p> <p>H.265</p> <p>H.264</p>	<p>Radio buttons to select the desired compression.</p>
	<p>Resolution</p>	<p>Radio buttons select the desired resolution. Options vary based on the sensor resolution being used.</p>
	<p>Enable SNAPstream+™</p>	<p>Enables the SNAPstream+ feature on camera. This feature utilizes both Smart GOP and Smart ROI to reduce bitrate without impacting the image quality.</p> <p>Smart GOP sets GOP to automatically increase when no moving objects are detected.</p> <p>Smart ROI will increase the bitrate of moving objects and make them clearer.</p>
	<p>Variable Bitrate</p>	<p>Maintains the Quality setting configured. There may be variation in the bit rate output from the camera using this mode.</p>
	<p>Maximum Bitrate</p>	<p>Maintains variable bit rate control and maintains the bitrate under the rate limit you set to. It can be set from 512kbps to 8000kbps.</p>
	<p>Constant Bitrate</p>	<p>Maintains a constant bit rate at the rate entered. It can be set from 512kbps to 8000kbps.</p>
	<p>H.264 Quality</p>	<p>H.264 image quality setting for variable bit rate control. Setting a lower value results in higher image quality, higher value results in lower image quality.</p>
	<p>Frames Per Seconds</p>	<p>Frame rate adjustment for the camera video stream.</p> <p>Note: For 2MP models, FPS will be up to 50% of specified FPS if WDR is enabled.</p>
	<p>GOP Length</p>	<p>Specifies how many frames between two consecutive I-Frames.</p>

<p>Sub Stream</p> <p>Video Compression</p> <p><input type="radio"/> H.265</p> <p><input checked="" type="radio"/> H.264</p> <p>Resolution</p> <p><input type="radio"/> 3840x2160</p> <p><input type="radio"/> 2560x1440</p> <p><input checked="" type="radio"/> 1920x1080</p> <p><input type="radio"/> 1280x720</p> <p><input type="radio"/> 960x540</p> <p><input type="radio"/> 640x360</p> <p><input type="checkbox"/> Enable SNAPstream+™</p> <p><input type="radio"/> Variable Bitrate</p> <p><input checked="" type="radio"/> Maximum Bitrate</p> <p>(512~8000 kbps) <input type="text" value="4000"/></p> <p>H.264 Quality (1..10) : <input type="text" value="4"/></p> <p><small>* 10 - lowest quality, 1 - highest quality</small></p> <p><input type="radio"/> Constant Bitrate</p> <p>Bitrate : <input type="text" value="4000"/> (512~8000 kbps)</p> <p>Frames Per Seconds: <input type="text" value="30"/> (1~30)</p> <p>GOP Length : <input type="text" value="30"/> (1~120)</p> <p><input type="button" value="Apply"/></p> <p><small>* "Apply" will apply changes for all three streams settings to the camera.</small></p>	Video Compression:	Radio buttons to select the desired compression.
	H.265	
	H.264	
	Resolution	Radio buttons select the desired resolution. Options vary based on the sensor resolution being used.
	Enable SNAPstream+™	Enables the SNAPstream+ feature on camera. This feature utilizes both Smart GOP and Smart ROI to reduce bitrate without impacting the image quality.
	Smart GOP sets GOP to automatically increase when no moving objects are detected.	
	Smart ROI will increase the bitrate of moving objects and make them clearer.	
	Variable Bitrate	Maintains the Quality setting configured. There may be variation in the bit rate output from the camera using this mode.
	Maximum Bitrate	Maintains variable bit rate control and maintains the bitrate under the rate limit you set to. It can be set from 512kbps to 8000kbps.
Constant Bitrate	Maintains a constant bit rate at the rate entered. It can be set from 512kbps to 8000kbps.	
H.264 Quality	H.264 image quality setting for variable bit rate control. Setting a lower value results in higher image quality, higher value results in lower image quality.	
Frames Per Seconds	Frame rate adjustment for the camera video stream.	
	Note: For 2MP models, FPS will be up to 50% of specified FPS if WDR is enabled.	
GOP Length	Specifies how many frames between two consecutive I-Frames.	

<p>Third Stream</p> <p>Video Compression <input checked="" type="radio"/> MJPEG</p> <p>Resolution <input checked="" type="radio"/> 640x360</p> <p>Frames Per Seconds: <input type="text" value="30"/> (1~30)</p> <p>Quality <input type="radio"/> Low <input type="radio"/> Mid <input checked="" type="radio"/> High</p> <p><input type="button" value="Apply"/></p> <p>* "Apply" will apply changes for all three streams settings to the camera.</p>	<p>Video Compression: MPJEG</p>	<p>The third stream is designed for the live view on web interface, and the only option of Video Compression is MPJEG.</p>
	<p>Resolution</p>	<p>The third stream is designed for the live view on web interface, and the only option of Resolution is VGA.</p>
	<p>Frames Per Seconds</p>	<p>Frame rate adjustment for the camera video stream.</p>
	<p>Quality: Low Mid High</p>	<p>Adjusts the compression level for JPEG images</p>

Focus


Image Video Focus Network Privacy Mask Event Video Analytics System Options Administration About Support
Model AV8856DNIR
Firmware 65372
MAC 00-18-07-1B-92-73

Menu	Feature	Description
<h3>Focus</h3> <hr/> <p>Focus : <input type="text"/></p> <p> <input type="button" value="+20"/> <input type="button" value="+5"/> <input type="button" value="+1"/> </p> <p> <input type="button" value="-20"/> <input type="button" value="-5"/> <input type="button" value="-1"/> </p> <p><input type="button" value="Full-range Focus"/></p> <p><input type="button" value="Stop"/></p> <p style="text-align: center;"><input type="button" value="Reset Focus Position"/></p>	<p>Manual Focus: +20, +5, +1, -20, -5, -1</p>	<p>Number indicates the level of focusing in order to adjust the field-of-view.</p>
	Full-range Focus	Full-range Focus button. The camera begins to autofocus with the lens stopping at the best overall point of focus.
	Stop	Stops any command in progress.
	Reset Focus Position	Resets Focus lens groups to zero position.

Menu	Feature	Description
<p style="text-align: center; font-size: 1.2em; color: #0070c0;">Network</p> <hr/> <p>IP Assignment</p> <p><input checked="" type="checkbox"/> DHCP</p> <p><input type="checkbox"/> Lock IP</p> <p>IP Address: <input type="text" value="10.10.65.17"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Default Gateway: <input type="text" value="10.10.65.1"/></p>	<p>IP Assignment:</p> <p>DHCP</p> <p>Lock IP</p> <p>IP Address</p> <p>Subnet Mask</p> <p>Default Gateway</p>	<p>DHCP: If checked, the camera will attempt to obtain its IP address from the DHCP server available on the network.</p> <p>Lock IP: If checked, locks the IP address in the IP Address field.</p> <p>IP Address: Sets the current IP address of the camera.</p> <p>Subnet Mask: Once set, the camera will use these mask bits to determine if a destination is from a different network</p> <p>Default Gateway: Once set, the camera will use send traffic to the specified gateway if the destination is on a different network</p>
<p>Port</p> <p>HTTP: <input type="text" value="80"/> (80,1024~65535)</p> <p>Second HTTP Port: <input type="text" value="8080"/> (8080,1024~65535)</p> <p>HTTPS: <input type="text" value="443"/> (443,1024~65535)</p>	<p>Port:</p> <p>HTTP</p> <p>Second HTTP Port</p> <p>HTTPs</p>	<p>HTTP: The port default is 80. It is used to access the camera via the web browser.</p> <p>Second HTTP port: Sets an alternative HTTP port. This port can be useful when the standard HTTP port (80) is not appropriate for this camera.</p> <p>HTTPs: The port default is 443. It can be used when you use HTTPs.</p>
<p>DNS</p> <p>Primary DNS: <input type="text" value="192.168.0.1"/></p> <p>Secondary DNS: <input type="text"/></p>	<p>DNS:</p> <p>Primary DNS</p> <p>Secondary DNS</p>	<p>Configures the Primary and Secondary DNS.</p>

<p>IPv6 Settings</p> <p><input type="checkbox"/> Enable IPv6</p> <p>Link-Local:</p> <p>IPv6 Address: <input type="text"/></p> <p>Address Prefix: <input type="text" value="64"/> (0~127)</p> <p>Default Route: <input type="text"/></p> <p><input type="checkbox"/> Router Advertisement</p> <p>DNS: <input type="text"/></p>	<p>IPv6 Settings:</p> <p>Enable IPv6</p> <p>IPv6 Address</p> <p>Address Prefix</p> <p>Default Route</p> <p>Router Advertisement</p> <p>DNS</p>	<p>Enable IPv6: Enables IPv6 function.</p> <p>Manually configures IPv6 address, Address prefix, Default route, and DNS server address.</p> <p>Router Advertisement: Enables Router Advertisement</p>
<p style="text-align: center;">QoS</p> <p><input type="checkbox"/> Enable QoS</p> <p>Video QoS (0-63) : <input type="text" value="34"/></p> <p>Management DSCP (0-63) : <input type="text" value="0"/></p> <p><input type="button" value="Apply"/></p>	<p>Enable QoS</p>	<p>Enables quality of service.</p>
	<p>Video QoS</p>	<p>Sets DSCP value for video traffic.</p>
	<p>Management DSCP</p>	<p>Sets DSCP value for non-video traffic.</p>
<p style="text-align: center;">UPnP</p> <p><input checked="" type="checkbox"/> Enable UPnP</p> <p><input type="button" value="Apply"/></p>	<p>Enable UPnP</p>	<p>Enables Universal Plug and Play function.</p>

<h2 style="text-align: center;">RTSP</h2> <p>Port : <input type="text" value="554"/> (554, 1025~65535)</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream1</p> <p><input checked="" type="checkbox"/> Enable RTSP Stream1 Metadata</p> <p>Path1 : <input type="text" value="stream1"/></p> <p>Link for external media players : rtsp://192.168.0.183:554/stream1</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream2</p> <p><input checked="" type="checkbox"/> Enable RTSP Stream2 Metadata</p> <p>Path2 : <input type="text" value="stream2"/></p> <p>Link for external media players : rtsp://192.168.0.183:554/stream2</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream3</p> <p><input checked="" type="checkbox"/> Enable RTSP Stream3 Metadata</p> <p>Path3 : <input type="text" value="stream3"/></p> <p>Link for external media players : rtsp://192.168.0.183:554/stream3</p>	Port	Configures the port number for stream 1 to stream 3. The range is 554/1025~65535.
	Enable RTSP Unicast Stream	Enables RTSP Unicast for stream 1(Main stream), stream 2(Sub Stream), and stream 3(Third Stream)
	Enable RTSP Stream metadata	Enables RTSP stream metadata for stream 1 (Main stream), stream 2 (Sub Stream), and stream 3 (Third Stream)
	Path	Configures the pathname for each stream.
	Link for external media players	Copies the link from here for external media players
	Path	Configures the pathname for each stream.
<h3 style="text-align: center;">Multicast</h3> <p>Multicast Stream1</p> <p><input checked="" type="checkbox"/> Enable RTSP Multicast Stream</p> <p><input type="checkbox"/> Always Multicast</p> <p>Video IP : <input type="text" value="225.27.146.115"/></p> <p>Video Port : <input type="text" value="5000"/> (1025~65535)</p>	Enable RTSP Multicast Stream	Enables RTSP Multicast stream for stream 1 (Main stream), stream 2 (Sub Stream), and stream 3 (Third Stream)
	Always Multicast	Enables the video streams to start multicast steaming without using RTCP
	Video IP Video Port	Configures the multicast address and the port number to stream video.


Meta IP : <input type="text" value="227.27.146.115"/> Meta Port : <input type="text" value="5004"/> (1025~65535) Path : <input type="text" value="stream1m"/> TTL : <input type="text" value="255"/> (1~255)	Meta IP Meta Port	Configures the multicast address and the port number to the HTML meta.
	Path	Configures the URL address of the video stream.
	TTL	Configures the time-to-live threshold of the multicast datagram before it is discarded by the router.
<h3>DDNS</h3>	<input type="checkbox"/> Enable DDNS	Enables DDNS service.
<input type="checkbox"/> Enable DDNS	Host Name	Specifies the Host name registered with the DDNS server.
Host Name : <input type="text"/>	DDNS Sever	Selects one of the public DDNS servers from the dropdown menu. Options are DynDNS, NO-IP, and Twi-DNS.
DDNS Server : <input type="text" value="DynDNS"/>	User Name	Specifies the user name of the DDNS account.
User Name : <input type="text"/>	Password	Specifies the password of the DDNS account.
Password : <input type="text"/>	Password Confirmation	Confirms the password of the DDNS account.
Password Confirmation : <input type="text"/>		
<h3>SNMP</h3>	<input checked="" type="radio"/> No SNMP Server	Disables SNMP function
<input checked="" type="radio"/> No SNMP Server	<input type="radio"/> SNMP v2c	Enables SNMP version 2 support
<input type="radio"/> SNMP v2c Community String : <input type="text" value="public"/>	Community String	Specifies the name of the community to access to SNMP information.

<p>Trap Configuration</p> <p>Address : <input type="text" value="192.168.1.200"/></p> <p>Community String : <input type="text" value="public"/></p> <p><input checked="" type="radio"/> SNMP V3</p> <p>SNMP User : <input type="text" value="initial"/></p> <p>Authentication : <input type="text" value="None"/> Password : <input type="password"/></p> <p>Privacy : <input type="text" value="None"/> Password : <input type="password"/></p> <p>Trap Configuration</p> <p>Address : <input type="text" value="192.168.1.200"/></p> <p><input type="button" value="Download MIB"/></p> <p><input type="button" value="Apply"/></p>	<p>Trap Configuration: Address</p> <p>Community String</p>	<p>Specifies the destination IP address to send SNMP trap messages.</p>
	<p>SNMP v3</p>	<p>Enables SNMP version 3 support.</p>
	<p>SNMP User</p>	<p>Specifies the user name of the SNMP v3.</p>
	<p>Authentication Password</p>	<p>Selects one of the Authentication modes from the dropdown menu. Options are None, MD5, and SHA.</p> <p>Specifies the Password for the Authentication.</p>
	<p>Privacy Password</p>	<p>Selects one of the encryption methods for SNMP v3 from the dropdown menu. Options are DES and AES.</p> <p>Specifies the Password for the encryption.</p>
	<p>Trap Configuration: Address</p>	<p>Specifies the destination IP address to send SNMP trap messages.</p>
	<p>Download MIB</p>	<p>Clicks to download MIB file for SNMP.</p>

<h3 style="text-align: center;">SSL</h3> <p>Mode : <input type="radio"/> Disable <input checked="" type="radio"/> Optional</p> <p>Certificate : No certificate has been installed.</p> <p>Action : Install New Certificate</p> <p>Key PEM file :</p> <p>Choose File No file chosen</p> <p>Upload</p> <p>Certificate PEM file :</p> <p>Choose File No file chosen</p> <p>Upload</p> <p>Apply</p>	<p>Mode:</p> <p>Disable</p> <p>Optional</p>	<p>Disable: Support for HTTP only.</p> <p>Optional: Support for HTTP and HTTPs both.</p>
<h3 style="text-align: center;">FTP</h3> <p><input type="checkbox"/> Enable</p> <p>User name : adminftp</p> <p>Password : <input type="password" value="••••"/></p> <p>Confirm : <input type="password" value="••••"/></p> <p>Max. Connection (1~10) : <input style="width: 50px;" type="text" value="10"/></p> <p>Apply</p>	<p>Enable</p>	<p>Enables FTP access to the camera.</p> <p>NOTE: This function is only available when a SD card is installed. You can access files in the SD card via FTP.</p>
	<p>Password</p> <p>Confirm</p>	<p>Specifies and confirms the password to access the FTP.</p>
	<p>Max. Connection</p>	<p>Specifies the maximum number of FTP connections to the IP camera.</p>

<p style="text-align: center;">802.1x</p> <p>Protocol :</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>NONE ▾</p> <p>NONE</p> <p>EAP-MD5</p> <p>EAP-TLS</p> <p>EAP-TTLS</p> <p>EAP-PEAP</p> </div> <p><input type="button" value="Apply"/></p>	<p>Protocol</p>	<p>The default is None to disable 802.1x functions. You can select one of the protocol options from the dropdown menu. The supported protocols are EAP-MD5, EAP-TLS, EAP-TTLS or EAP-PEAP.</p> <p>After the protocol has been selected, manually configures the username, password and other required information.</p>
<p style="text-align: center;">LDAP</p> <p><input type="checkbox"/> Enable LDAP</p> <p>Server : <input type="text"/></p> <p>Port : <input type="text" value="389"/> (389, 1025~65535)</p> <p>Base dn: <input type="text" value="dc=ipcamera,dc=com"/></p> <p>Bind dn template : <input type="text" value="cn=%u,ou=people,dc=ipcamera,dc=com"/></p> <p>Search dn template : <input type="text" value="cn=%u"/></p> <p>Administrator : <input type="text" value="cn=admin,ou=groups,dc=ipcamera,dc=com"/></p> <p>Viewer : <input type="text" value="cn=user,ou=groups,dc=ipcamera,dc=com"/></p> <p><input type="button" value="Apply"/></p>	<p>Enable LDAP</p>	<p>Enables LDAP service.</p>
<p>Server</p>	<p>Specifies the IP address of the LDAP server.</p>	
<p>Port</p>	<p>Specifies the port address of the LDAP server. Default port is 389.</p>	
<p>Base dn</p>	<p>Specifies the starting point an LDAP server uses when searching for user's authentication within the Directory.</p>	
<p>Bind dn template</p>	<p>Identifies the username that will be used to do the searching and request the authentication</p>	
<p>Search dn template</p>	<p>Defines at which node the search originates</p>	
<p>Administrator</p>	<p>Specifies the administrator</p>	
<p>Viewer</p>	<p>Specifies the viewer user</p>	


Privacy Mask


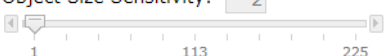
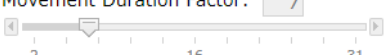
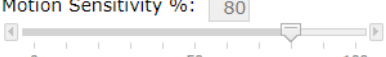

Image Video Focus Network Privacy Mask Event Video Analytics System Options Administration About Support

 Model AV8856DNIR
 Firmware 65372
 MAC 00-1a-07-1b-92-73

Menu	Feature	Description
<h3>Privacy Mask</h3> <hr/> <input type="checkbox"/> Enable Privacy Mask <p> * Left click and drag to set mask * Right click and drag to erase mask <i>Note: It might take a few seconds for a privacy mask to show on the video stream.</i> </p>	Enable Privacy Mask	Creates a privacy mask on the image so the selected areas will not be visible.
	Click and drag mouse to: Mask Unmask	Left click and drag mouse on video stream to add privacy masks or right click and drag mouse to erase privacy masks.

Event


Image Video Focus Network Privacy Mask Event Video Analytics System Options Administration About Support
Model: AV8856DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73

Menu	Feature	Description
<p>Motion Detection ▾</p> <p><input checked="" type="checkbox"/> Enable</p> <p><input type="checkbox"/> Extended</p> <p>Zone Size: <input type="text" value="11"/> </p> <p>Object Size Sensitivity: <input type="text" value="2"/> </p> <p>Movement Duration Factor: <input type="text" value="7"/> </p> <p>Motion Sensitivity %: <input type="text" value="80"/> </p> <p><small>* Left click and move to select window to set mask. * Right click and move to select window to reset mask.</small></p>	Enable	Turn on and off on-camera motion detection. Left Click and drag on the video stream to set a motion detection mask or right click and drag to remove the mask.
	Extended	Enables the extended motion detection and motion detection zones with an increase from default 64 to 1024 for enhanced motion detection sensitivity.
	Zone Size	Adjusts the size of motion detection zones.
	Object Size Sensitivity	Sets the size of each zone displayed by the motion detection grid. Contains sub zones where the number of sub zones is set by setting the zone size up to 32x32 (pixels). This setting configures the sensitivity of the motion detection to the size of objects in the image moving through the zone. Higher values will trigger motion only for larger objects moving through the zone, and lower values will cause detection of smaller objects in the zone (increasing sensitivity to smaller size objects moving through the image).
	Movement Duration Factor	Sets the sensitivity to brightness changes between dark and light objects within each grid zone. As an example, “Object Size Sensitivity” will set the size of the object detected within the zone, and “Movement Duration Factor” sets the duration that movement must be maintained to trigger motion detection. Lower settings can increase false motion alarms caused by image noise; higher settings will require more movement to trigger a motion event.
	Motion Sensitivity	Sets the sensitivity to sudden overall brightness changes in the image.

<p>Alarm Handler ▼</p> <p><input checked="" type="checkbox"/> Enable Alarm Detection</p> <p>Alarm Schedule</p>	<p>Enable Alarm Detection</p>	<p>Enables Alarm Detection (Alarm In) function.</p>
<p>Digital I/O ▼</p> <p><input type="checkbox"/> Trigger Alarm Detection</p> <p><input type="checkbox"/> Trigger Motion Detection</p> <p><input type="checkbox"/> Trigger Tamper Detection</p> <p><input type="checkbox"/> Trigger Video Analytics</p> <p>Type <input type="text" value="N.O."/> ▼</p> <p>Off Time <input type="text" value="0"/> (0~30s)</p> <p>Apply</p>	<p>Trigger Alarm Detection</p>	<p>When a signal is detected from Alarm in the Alarm out will be triggered.</p>
	<p>Trigger Motion Detection</p>	<p>When a motion event is detected the Alarm out will be triggered.</p>
	<p>Trigger Tamper Detection</p>	<p>When a tamper event is detected, the Alarm out will be triggered.</p>
	<p>Trigger Video Analytics</p>	<p>When a video analytics event is detected, the Alarm out will be triggered.</p>
	<p>Type</p>	<p>Selects the type: N.O (Normally Open) or N.C (Normally Closed)</p>
	<p>Off Time</p>	<p>Specifies the alarm duration</p>

<h3>Tamper Detection ▼</h3> <p><input type="checkbox"/> Enable Tampering Detection</p> <p>Tampering Schedule</p> <p>Sensitivity Medium ▼</p> <p>Apply</p>	<p>Enable Tampering Detection</p>	<p>Enables Tampering Detection function.</p>
	<p>Tampering Schedule</p>	<p>Configures the alarm schedule by holding down the mouse button and clicking the time block to enable the schedule settings for the selected time. A light blue color on the time block indicates that the alarm schedule is enabled, while a light grey color indicates that the alarm schedule is disabled.</p> <p>Alternatively, you can manually enter the numbers to configure the hours and minutes for the “start” and “end” of the day.</p> <p>S: Click “S” to set up a 24-hour schedule for a particular day.</p> <p>D: Click “D” to clear the previous schedule for a particular day.</p>
	<p>Sensitivity</p>	<p>Configures the sensitivity level of Tamper Detection: High, Medium, and Low.</p>
<h3>FTP Upload Handler ▼</h3> <p>Remote Server</p> <p>Host Address : <input type="text"/></p> <p>Port : <input type="text" value="21"/> (21, 1025~65535)</p> <p>Username : <input type="text"/></p> <p>Password : <input type="text"/></p> <p>FTP Upload Handler</p> <p><input type="checkbox"/> Enable Trigger Event</p> <ul style="list-style-type: none"> <input type="radio"/> Trigger Alarm Detection <input type="radio"/> Trigger Motion Detection <input type="radio"/> Trigger Tampering Alarm <input type="radio"/> Trigger Video Analytics <input type="radio"/> Trigger Scheduled 	<p>Remote Server</p> <p>Host Address</p> <p>Port</p> <p>Username</p> <p>Password</p>	<p>Host Address: Specifies the host name or IP address of the FTP server.</p> <p>Port: Specifies the port number of the FTP server.</p> <p>Username: Specifies the login username of the FTP server.</p> <p>Password: Specifies the login password of the FTP server.</p>
	<p>FTP Upload Handler</p> <p>Enable Trigger Event</p>	<p>Enables and selects a desired trigger source. The options are Trigger Alarm Detection, Trigger Motion Detection, Trigger Tampering Alarm, Trigger Video Analytics, and Trigger Scheduled.</p>

SMTP Notification ▼																																																																				
<p>SMTP Notification Handler</p> <p>From : <input type="text"/></p> <p><input type="checkbox"/> Trigger Alarm Detection</p> <p><input type="checkbox"/> Trigger Motion Detection</p> <p><input type="checkbox"/> Trigger Tampering Alarm</p> <p><input type="checkbox"/> Trigger Video Analytics</p> <p>SMTP Server</p> <p>Host Address : <input type="text"/></p> <p>Port : <input type="text" value="25"/> (1~65535)</p> <p>Username : <input type="text"/></p> <p>Password : <input type="text"/></p> <p>Authentication : <input type="text" value="NO_AUTH"/> ▼</p> <p>Recipient List</p> <table border="1"> <thead> <tr> <th>Enable</th> <th>No</th> <th>Email</th> <th>Alarm</th> <th>Motion</th> <th>Tampering</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>1</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>2</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>3</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>4</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>5</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>6</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>7</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>8</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>9</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td>10</td><td><input type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>	Enable	No	Email	Alarm	Motion	Tampering	<input type="checkbox"/>	1	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>SMTP Notification Handler</p> <p>SMTP Server</p> <p>Host Address</p> <p>Port</p> <p>Username</p> <p>Password</p> <p>Authentication</p> <p>Recipient List</p>	<p>From: Specifies the email address of the sender</p> <p>Selects a desired trigger source. The options are Trigger Alarm Detection, Trigger Motion Detection, Trigger Tampering Alarm, and Trigger Video Analytics.</p> <p>Host Address: Specifies the host name or IP address of the SMTP server.</p> <p>Port: Specifies the port number of the SMTP server.</p> <p>Username: Specifies the login username of the SMTP server.</p> <p>Password: Specifies the login password of the SMTP server.</p> <p>Authentication: Specifies the authentication mode of the SMTP sever. The options are NO_AUTH, SMTP_PLAIN, LOGIN and TLS_TLS.</p> <p>Specifies the email address to send the email when selected events are triggered by Alarm, Motion, or Tamper. A maximum of 10 email addresses can be configured.</p>
Enable	No	Email	Alarm	Motion	Tampering																																																															
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<p>Network Storage ▾</p> <p>Login Certificate</p> <p>Username : <input type="text"/></p> <p>Password : <input type="password"/></p> <p>Recipient Setup</p> <p>Network Storage Status : not_mounted</p> <p>Network Address : <input type="text"/></p> <p>Folder Name : <input type="text"/></p> <p>Record Type : <input type="text" value="Video"/></p> <p>Mount and Remove Network Storage</p> <p><input type="button" value="Mount"/> <input type="button" value="Remove"/></p> <p>Network Storage Handler</p> <p><input type="checkbox"/> Enable Trigger Event</p> <ul style="list-style-type: none"> <input type="radio"/> Trigger Alarm Detection <input type="radio"/> Trigger Motion Detection <input type="radio"/> Trigger Tampering Alarm <input type="radio"/> Trigger Video Analytics <input type="radio"/> Trigger Scheduled <p><input type="button" value="Apply"/></p>	<p>Login Certificate</p> <p>Recipient Setup</p> <p>Network Storage Status</p> <p>Network Address</p> <p>Folder Name</p> <p>Record Type</p> <p>Mount and Remove Network Storage</p> <p>Network Storage Handler</p> <p>Enable Trigger Event</p>	<p>Specifies the login Username and Password for the network storage sever.</p> <p>Network Storage Status: Displays the current status of the connection with the network storage server. (not_mounted or ok)</p> <p>Network Address: Specifies the IP address of the network storage server.</p> <p>Folder Name: Specifies the folder name on the network storage server.</p> <p>Recording Type: Specifies the desired action when an event is triggered. The options are Snapshot and Video.</p> <p>Mount: Sets up a network connection with the network storage server. All the video recordings or snapshots from event triggers will be uploaded to the network storage server. After the setting is complete, the Network Storage Status field will display "ok".</p> <p>Remove: Deletes the previous setting. After the setting is removed, the Network Storage Status field will display "not_mounted".</p> <p>Enable Trigger Event: Enables and selects a desired trigger source. The options are Trigger Alarm Detection, Trigger Motion Detection, Trigger Tampering Alarm, Trigger Video Analytics, and Trigger Scheduled.</p>
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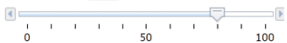
<p style="text-align: center;">SD Card ▼</p> <p><input type="checkbox"/> Enable</p> <ul style="list-style-type: none"> <input type="radio"/> Trigger Alarm Detection <input type="radio"/> Trigger Motion Detection <input type="radio"/> Trigger Tampering Alarm <input type="radio"/> Trigger Video Analytics <input type="radio"/> Manual Record <p>SD Card Information</p> <p>Available Storage 0 MBytes</p> <p><input type="button" value="Format SD Card"/></p> <p>Usage 0% (0 / 0 MBytes)</p> <p>Status not_mounted</p> <p>Overwrite when storage full <input checked="" type="checkbox"/></p> <p>Record Type <input type="text" value="Video"/></p> <p><input type="button" value="Apply"/></p>	<p>Enable</p>	<p>Enables and selects a desired trigger source. The options are Trigger Alarm Detection, Trigger Motion Detection, Trigger Tampering Alarm, Trigger Video Analytics, and Manual Record.</p>
	<p>SD Card Information</p> <p>Available Storage</p> <p>Format SD Card</p> <p>Usage</p> <p>Status</p> <p>Overwrite when storage full</p> <p>Record Type</p>	<p>Available Storage: Displays the available storage of the SD card if it is installed.</p> <p>Format SD Card: Erases all the data stored on the SD Card.</p> <p>Usage: Displays the total storage that has been used now.</p> <p>Status: Displays the status whether the SD card is installed or not. (not_mounted or ok)</p> <p>Overwrite when storage full: Enables overwriting the SD card if the storage is full.</p> <p>Recording Type: Specifies the desired action to record a stream. The options are Snapshot and Video.</p>


Video Analytics

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 Model AV8856DNIR
 Firmware 65372
 MAC 00-1a-07-1b-92-73

Menu	Feature	Description
<p>Analytics Settings ▾</p> <ul style="list-style-type: none"> <input type="checkbox"/> Enable Analytics <input checked="" type="radio"/> Line Crossing <input checked="" type="radio"/> Loitering <input checked="" type="radio"/> Camera Tamper <input checked="" type="radio"/> Intrusion Detection <input checked="" type="radio"/> Person/Vehicle Counting <input checked="" type="radio"/> Object Left/Removed <p>Notice: * Analytics won't have an effect when the image is rotated to 90 or 270 degree.</p>	<p>Enable Analytics</p> <p>Line Crossing</p> <p>Loitering</p> <p>Camera Tamper</p> <p>Intrusion Detection</p> <p>Person/Vehicle Counting</p> <p>Object Left/Removed</p>	<p>Enables and selects a desired Analytic function. The options are Line Crossing, Loitering, Camera Tamper, Intrusion Detection, Person/Vehicle Counting*, Object Left/Removed.*</p> <p>Line Crossing: Detects objects that cross a virtual line.</p> <p>Loitering: Detects objects that remain in a user-specified area beyond a specified time.</p> <p>Camera Tamper: Detects attempts to partially or completely block the lens or field of view, or drastic changes to the camera angle.</p> <p>Intrusion Detection: Detects objects that move into a user specified area.</p> <p>Person/Vehicle Counting*: Performs a continuous, multidirectional count of people, vehicles, or all objects.</p> <p>Object Left/Removed*: Continuously monitors a specified area to detect objects that have been left/removed.</p> <p style="font-size: 8px;">* Optional Advanced License Required</p>

<p>Basic Settings</p> <p>Camera Position: Angled View</p> <p>Sensitivity: 80</p>  <p>*A higher value will detect more motion/movements.</p> <p><input checked="" type="checkbox"/> Display Bounding Boxes</p> <p><input checked="" type="checkbox"/> Trigger Video Motion Detection Event</p> <p><input type="checkbox"/> Block Standard Motion Detection Data</p> <p><small>*If checked, the client(VMS) will only receive the Analytic events as motion detection events.</small></p>	<p>Basic Settings</p> <p>Camera Position</p>	<p>When selecting the correct position for analytics care should be taken to avoid the following:</p> <ol style="list-style-type: none"> 1. Objects that are too small (<10% of the image). 2. Objects that are too large (>40% of the image). 3. Objects that can be hidden from view. <p>Angled View: Typically used for wall or corner mounts looking down. Useful for general intrusion.</p> <p>Top Down View: Typically used for vertical ceiling mounts. Primarily used for line crossing or directional movement.</p> <p>Horizontal View: Typically used for horizontal wall mounts at a lower height. It is not recommended for most situations since objects can be hidden from view.</p>
	<p>Sensitivity</p>	<p>Specify the desired trade-off between true detections and false alarms to minimize the effects from the background motions.</p> <ol style="list-style-type: none"> 1. For night/low contrast scenes the sensitivity should be increased to 90-95. 2. For bright/noisy/sharp videos it should be lowered to 60-75. <p>To minimize the effects of noise, Sensitivity can be reduced so that only more prominent objects will be detected and trigger events.</p>
	<p>Display Bounding Boxes</p>	<p>If checked, the video on the Web UI will display a bounding box around a valid object.</p> <p>NOTE: Bounding boxes will not overlay on video streams. They are displayed in the camera web UI only.</p>
	<p>Trigger Video Analytic Event</p>	<p>If enabled, Video Analytic Events will be treated as motion data.</p> <p>If Block Standard Motion Detection Data is enabled, the client (VMS) will only receive the Analytic events as motion detection events.</p>

<p>Line Crossing Settings</p> <p>*Left click and drag to set a line.</p> <p>Object Type:</p> <p><input type="radio"/> Person</p> <p><input type="radio"/> Vehicle</p> <p><input checked="" type="radio"/> All Objects</p> <p><input checked="" type="checkbox"/> Crossing Detection</p> <p><input type="radio"/> A → B</p> <p><input type="radio"/> B → A</p> <p><input checked="" type="radio"/> A ↔ B</p> <p><input type="button" value="Apply"/></p>	<p>Object Type</p> <p>Person</p> <p>Vehicle</p> <p>All Objects</p> <p>Crossing Detection</p> <p>A → B</p> <p>A ← B</p> <p>A ↔ B</p>	<ol style="list-style-type: none"> 1. Left clicks and drags a line on the live video. 2. Select a desired Object Type* to trigger events. The options are Person, Vehicle and All Objects. 3. Select a desired crossing direction to trigger events. The options are A → B, A ← B, A ↔ B. 4. Click Apply. <p>* Optional Advanced License Required</p>
<p>Loitering Settings</p> <p>*Left click and drag to set a specified area</p> <p>*Right click and drag to erase a specified area.</p> <p>*5 Seconds is the lowest time allowed for trigger</p> <p>Minimum Loitering Time(Sec): <input type="text" value="5"/></p> <p><input type="button" value="Apply"/></p>	<p>Minimum Loitering Time (Sec)</p>	<ol style="list-style-type: none"> 1. Left click and drag to draw a virtual area. 2. Right click and drag to erase a virtual area. 3. Specify the amount of time an object must be in the area to trigger the event. 4. Click Apply.
<p>Camera Tamper Settings</p> <p><input type="checkbox"/> Triggered by Light Changes</p> <p>Sensitivity: <input type="text" value="60"/></p>  <p><input type="button" value="Apply"/></p>	<p>Triggered by Light Changes</p> <p>Sensitivity</p>	<p>If enabled, lights turning on/off will be treated as a tamper event.</p> <p>Sets the sensitivity to detect the tamper event due to the sudden changes in the image.</p>
<p>Intrusion Detection Settings</p> <p>*Left click and drag to set a specified area</p> <p>*Right click and drag to erase a specified area.</p> <p>Object Type:</p> <p><input type="radio"/> Person</p> <p><input type="radio"/> Vehicle</p> <p><input checked="" type="radio"/> All Objects</p> <p><input type="button" value="Apply"/></p>	<p>Object Type:</p> <p>Person</p> <p>Vehicle</p> <p>All Objects</p>	<ol style="list-style-type: none"> 1. Left click and drag to draw a virtual area. 2. Right click and drag to erase a virtual area. 3. Select a desired Object Type* to trigger events. The options are Person, Vehicle and All Objects. 4. Click Apply. <p>* Optional Advanced License Required</p>

<p>Person/Vehicle Counting Settings</p> <p>*Left click and drag to set a line. *Count incoming and outgoing objects that cross a specified line.</p> <p>Object Type:</p> <p><input type="radio"/> Person <input type="radio"/> Vehicle <input checked="" type="radio"/> All Objects</p> <p>Event Count:</p> <p>A -> B: 0 B -> A: 0</p> <p><input checked="" type="checkbox"/> Trigger event if count is greater than:</p> <p>A -> B: <input type="text" value="0"/> B -> A: <input type="text" value="0"/></p> <p><input checked="" type="checkbox"/> Reset Event Count</p> <p><input type="radio"/> Every Day <input type="radio"/> Every Week <input checked="" type="radio"/> Every Month</p> <p>1 <input type="text"/> day <input type="text" value="Monday"/></p> <p>0 <input type="text"/> hour 0 <input type="text"/> min</p> <p><input type="button" value="Reset Event Count"/> <input type="button" value="Apply"/></p>	<p>Object Type:</p> <p>Person Vehicle All Objects</p> <p>Event Count:</p> <p>A -> B B -> A</p> <p>Trigger event if count is greater than:</p> <p>A -> B B -> A</p> <p>Reset Event Count</p> <p>Every Day Every Week Every Month</p>	<ol style="list-style-type: none"> 1. Left click and drag to draw a virtual area. 2. Right click and drag to erase a virtual area. 3. Select the Object Type that will trigger the analytic. 4. Click Apply 																				
<p>Object Left/Removed Settings</p> <p>*Left click and drag to set a specified area *Right click and drag to erase a specified area.</p> <p>*The event will be triggered once the object left or removed for more than 10 seconds. *Suggest to change the pre-motion recording setting of VMS to more than 10 seconds.</p> <p><input type="checkbox"/> Enable Object Left <input type="checkbox"/> Enable Object Removed</p> <p><input type="button" value="Apply"/></p>	<p>Object Left/Removed Settings</p> <p>Enable Object Left Enable Object Removed</p>	<ol style="list-style-type: none"> 1. Left click and drag to draw a virtual area. 2. Right click and drag to erase a virtual area. 3. Select Enable Object Left or/and Enable Object Removed. 4. Click Apply 																				
<p>Object Calibration ▾</p> <p><input type="checkbox"/> Stop Live Video</p> <p>Object Type:</p> <p><input type="checkbox"/> Enable Object Size Setting</p> <p><input type="radio"/> Person <input type="radio"/> Minimum <input type="radio"/> Maximum</p> <p><input type="radio"/> Vehicle <input type="radio"/> Minimum <input type="radio"/> Maximum</p> <p><input type="radio"/> All Objects <input type="radio"/> Minimum <input type="radio"/> Maximum</p> <p>*Left click and drag to set an object size. *Height Max / Width Max values must be larger than minimum values.</p> <p><input type="button" value="Apply"/></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Width Min (%)</th> <th>Height Min (%)</th> <th>Width Max (%)</th> <th>Height Max (%)</th> </tr> </thead> <tbody> <tr> <td>Person</td> <td>5</td> <td>5</td> <td>85</td> <td>85</td> </tr> <tr> <td>Vehicle</td> <td>5</td> <td>5</td> <td>85</td> <td>85</td> </tr> <tr> <td>All</td> <td>5</td> <td>5</td> <td>85</td> <td>85</td> </tr> </tbody> </table>	Type	Width Min (%)	Height Min (%)	Width Max (%)	Height Max (%)	Person	5	5	85	85	Vehicle	5	5	85	85	All	5	5	85	85	<p>Stop Live Video</p> <p>Object Type</p> <p>Enable Object Size Setting</p> <p>Person Vehicle All Objects</p>	<p>Click Stop Live Video to perform object calibration.</p> <p>Enable Object Size Setting to start Object Calibration.</p> <ol style="list-style-type: none"> 1. Select Minimum to specify the minimum object size of the target. 2. Left click and drag to set the object size. 3. Select Maximum to specify the maximum object size of the target. 4. Left click and drag to set the object size. 5. Click Apply <p>NOTE: It is recommended to set minimum object size to half the width and height of the average object and maximum object size to ~130% the width and height of the average object.</p>
Type	Width Min (%)	Height Min (%)	Width Max (%)	Height Max (%)																		
Person	5	5	85	85																		
Vehicle	5	5	85	85																		
All	5	5	85	85																		

<p>Event List ▼</p> <p><input type="checkbox"/> Stop Refreshing Event List</p> <p>Display Event Types</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Line Crossing <input checked="" type="checkbox"/> Loitering <input checked="" type="checkbox"/> Camera Tamper <input checked="" type="checkbox"/> Intrusion Detection <input checked="" type="checkbox"/> Person/Vehicle Counting <input checked="" type="checkbox"/> Object Left/Removed <p>Date Time</p> <p>2018 / 1 / 1 0 : 0 : 0 ~ 2022 / 9 / 20 11 : 34 : 46</p> <p><input type="button" value="Display"/> <input type="button" value="Export"/></p> <p><input type="button" value="Reset Event List"/></p>	<p>Stop Refreshing Event List</p> <p>Display Event Types</p> <p>Date Time</p> <p>Reset Event List</p>	<p>Click Stop Refreshing Event list to pause new events from being displayed.</p> <ol style="list-style-type: none"> 1. Select Display Event Types. The options are Line Crossing, Loitering, Camera Tamper, Intrusion Detection, Person/Vehicle Counting*, Object Left/Removed*. 2. Specify a start time and end time for events you want to search for. 3. Click Display. <p>Click Reset Event List button to reset the current event list.</p> <p><small>* Requires Optional Advanced License supports this function.</small></p>
<p>License ▼</p> <p>Current License Version: advanced</p> <p>Update License: <input type="text"/></p> <p><input type="button" value="Apply"/></p>	<p>Current License Version</p> <p>Update License</p>	<p>Current License Version shows the license level: Standard or Advanced.</p> <p>Enter a license key then click Apply.</p> <p>NOTE: If you would like to upgrade to Advanced License, please contact Technical Assistance Center (TAC). Call at +1.818.937.0700 and select option #1. Cameras with Advanced License cannot be downgraded to Standard License.</p>

System Options

Image Video Focus Network Privacy Mask Event Video Analytics **System Options** Administration About Support
Model: AV8856DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73

Menu	Feature	Description
<h3>System Options</h3> <hr/> <p>Firmware Upgrade</p> <p>Please select a file to update:</p> <p>File Name : <input type="button" value="Choose File"/> No file chosen</p> <p><input type="button" value="Upgrade"/></p> <p>Configuration Management</p> <p>Importing : <input type="button" value="Choose File"/> No file chosen</p> <p><input type="button" value="Import"/></p> <p>Exporting : <input type="button" value="Export"/></p> <p>Download Log</p> <p><input type="button" value="Download"/></p> <p>Reboot & Restore Settings</p> <p><input type="button" value="Reboot the Camera"/></p> <p><input type="button" value="Restore to Factory Default Settings Except Network Settings"/></p> <p><input type="button" value="Restore to Factory Default Settings"/></p> <p>Camera Name</p> <p><input type="text" value="AV2756DN-F-AF"/></p> <p><input type="button" value="save"/></p>	<p>Firmware Upgrade</p> <p>Configuration Management</p> <p>Importing</p> <p>Exporting</p> <p>Download Log</p> <p>Reboot & Restore Settings</p> <p>Reboot the Camera</p> <p>Restore Factory Default Settings Except Network Settings</p> <p>Restore to Factory Default Settings</p> <p>Camera Name</p>	<p>Click "Choose File" to choose the firmware upgrade file, and then click Upgrade.</p> <p>Importing: Allows the import of a configuration file to speed up installation. Click "Choose File" to choose the configuration file, and then click Import.</p> <p>Exporting: Allows the export of a configuration file to duplicate the settings of the camera on other cameras or use as a backup. Click Export and enter the desired name and location of the file.</p> <p>Records all the status information of the camera in list format. Downloads the log file to the computer as a text file.</p> <p>NOTE: The log file is protected by a password. Please contact the AV Costar Technical Support Team.</p> <p>Reboot the Camera: Reboots the camera.</p> <p>Restore Factory Default Settings Except Network Settings: Restores all settings to factory default except the network settings.</p> <p>Restore to Factory Default Settings: Restores all settings to factory default.</p> <p>Allows the entry of a camera name to be entered.</p>

<h3 style="text-align: center;">Date/Time</h3> <p>Get Time from:</p> <p> <input type="radio"/> NTP Server <input checked="" type="radio"/> Computer System </p> <p>Time Zone: America ▼ Los_Angeles ▼</p> <p>NTP Server: <input type="text" value="0.north-america.pool.ntp"/></p> <p style="text-align: center;"> <input type="button" value="Apply NTP Server Configuration"/> <input checked="" type="button" value="Update Time from the Computer"/> </p> <p> <small>* Select NTP Server option to synchronize time with the NTP server and enter server configuration. * Select Computer System option to synchronize time with the computer system via camera web page. * Set up appropriate gateway before configuring the NTP server.</small> </p>	<p>Get Time from</p> <p>NTP Server</p> <p>Computer System</p>	<p>NTP Server: Synchronizes the date/time information with defined NTP server. After setting up the desired Time zone and NTP Server, click “Apply NTP Server Configuration”.</p> <p>NOTE: Please make sure to set up appropriate gateway before configuring the NTP server.</p> <p>Computer System: Synchronizes the date/time information with current computer’s date/time. Once this option is selected, click “Update Time from the computer”.</p>
	<p>Time Zone</p>	<p>Specifies the country / city of the time zone from the drop-down menu.</p>
	<p>NTP Server</p>	<p>Specifies the desired NTP server</p>

Administration

Image Video Focus Network Privacy Mask Event Video Analytics System Options **Administration** About Support
Model: AV886DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73

Menu	Feature	Description
<h2>Administration</h2> <hr/> <p>Access Control</p> <p>(Passwords can be up to 16 letters, digits and symbols, excluding following symbols for passwords without encoding # % & ' " < > / [] { } _ () = . + ,)</p> <p>Administrator</p> <p>Username : admin</p> <p>Admin Password : <input type="password" value="••••••••"/></p> <p>Confirmation : <input type="password" value="••••••••"/></p> <p><input type="button" value="Set"/> <input type="button" value="Erase"/></p>	<p>Access Control</p> <hr/> <p>Administrator</p> <p>Username</p> <p>Admin Password</p> <p>Confirmation</p> <p>Set/ Erase</p>	<p>Passwords can be up to 16 letters, digits and symbols, excluding following symbols for passwords without encoding # % & ' " < > / [] { } _ () = . + ,</p> <hr/> <p>Username: The username of Administrator is admin and cannot be changed.</p> <p>Admin: full access to all camera settings and live video.</p> <p>Admin Password: Specifies the password for the administrator.</p> <p>Confirmation: Re-enters the password for the password validation.</p> <p>Set/ Erase: Saves or removes the password.</p> <p>NOTE: If admin password was set but has been lost, it can be erased by AV IP Utility using the key file. Please contact Arecont Vision technical support to obtain the key file required to perform this function. Or, if the camera has a reset button, you can also reset to Factory default for removing the password.</p>

<p>Viewer Management</p> <p>User List: <input type="text" value="test1"/></p> <p><input type="button" value="New User"/> <input type="button" value="Delete User"/></p> <p><u>User Information</u></p> <p>User Name: <input type="text"/></p> <p>Viewer Password : <input type="text"/></p> <p>Confirmation : <input type="text"/></p> <p>Access Level : <input checked="" type="radio"/> Admin <input type="radio"/> Viewer</p> <p><input type="button" value="Set"/></p>	<p>Viewer Management</p> <p>User List</p> <p>User Name</p> <p>Viewer Password</p> <p>Confirmation</p> <p>Access Level</p> <p>Set/ Erase</p>	<p>User List: Displays current user accounts created on the camera. Clicks New User/ Delete User to create or remove a user account.</p> <p>User Name: Specifies the user name. It must be at least five and up to sixteen characters.</p> <p>Viewer Password: Specifies the password for the viewer.</p> <p>Confirmation: Re-enters the password for the password validation.</p> <p>Access Level: Defines the authorization level for the user: Admin or Viewer.</p> <p>Set/ Erase: Save or removes the password.</p>
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About

Image Video Focus Network Privacy Mask Event Video Analytics System Options Administration About Support
Model: AV8856DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73

Menu	Feature	Description
<p style="text-align: center;">About</p> <hr/> <p>Model Name : AV8856DNIR Firmware : 65372 Serial Number : AVC22032883 MAC Address : 00-1a-07-1b-92-73</p>	About	<p>Model Name</p> <p>Firmware</p> <p>Serial Number</p> <p>MAC Address</p>

Support

Image Video Focus Network Privacy Mask Event Video Analytics System Options Administration About Support
Model: AV8856DNIR
Firmware: 65372
MAC: 00-1a-07-1b-92-73

Menu	Feature	Description
<p style="text-align: center;">Support</p> <hr/> <ul style="list-style-type: none"> • Resources • Online Support Request • Firmware Downloads • Software Downloads • Technical Updates • Product Selector • Downloads 	Support	Provides several hyperlinks to get more information on the camera.



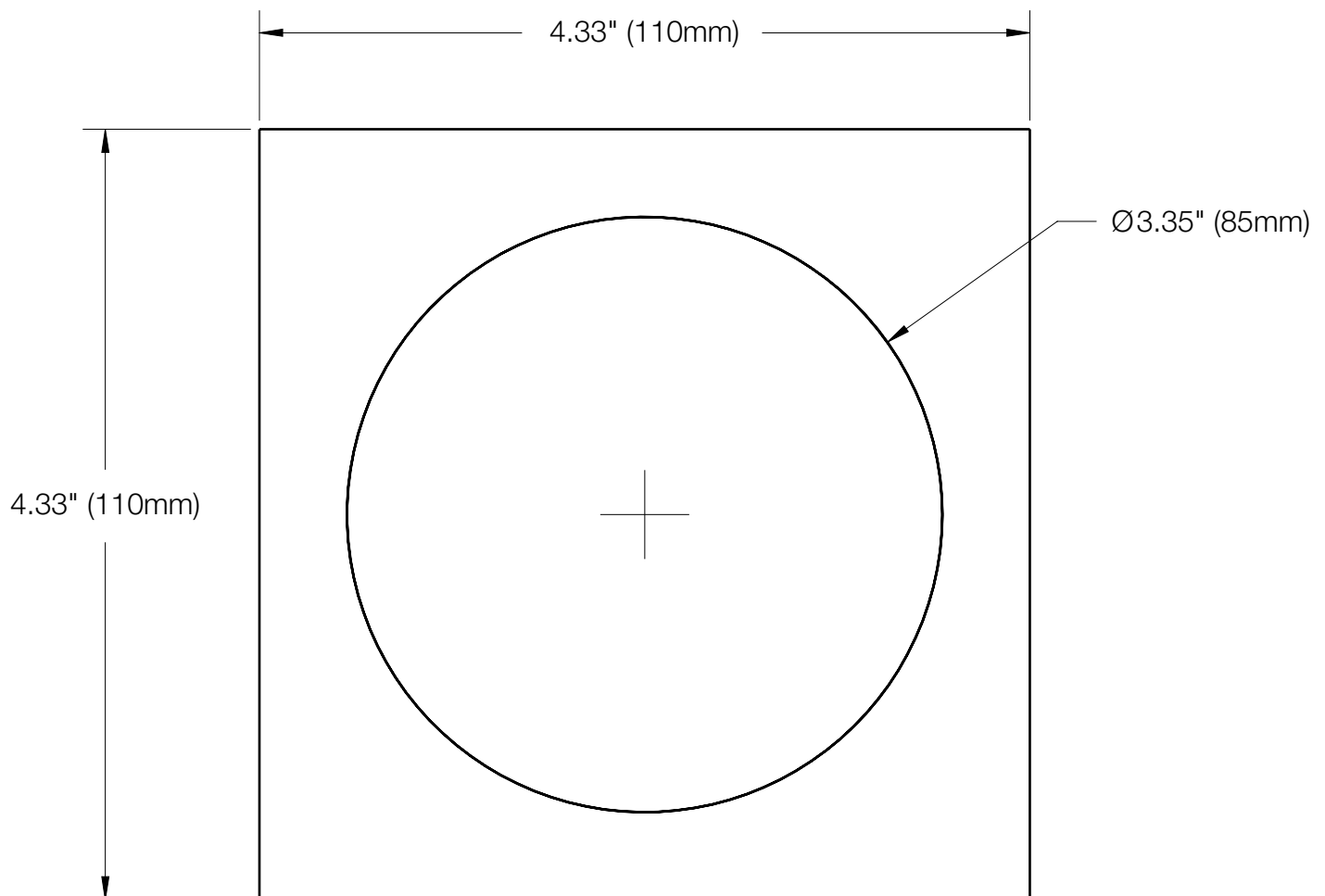
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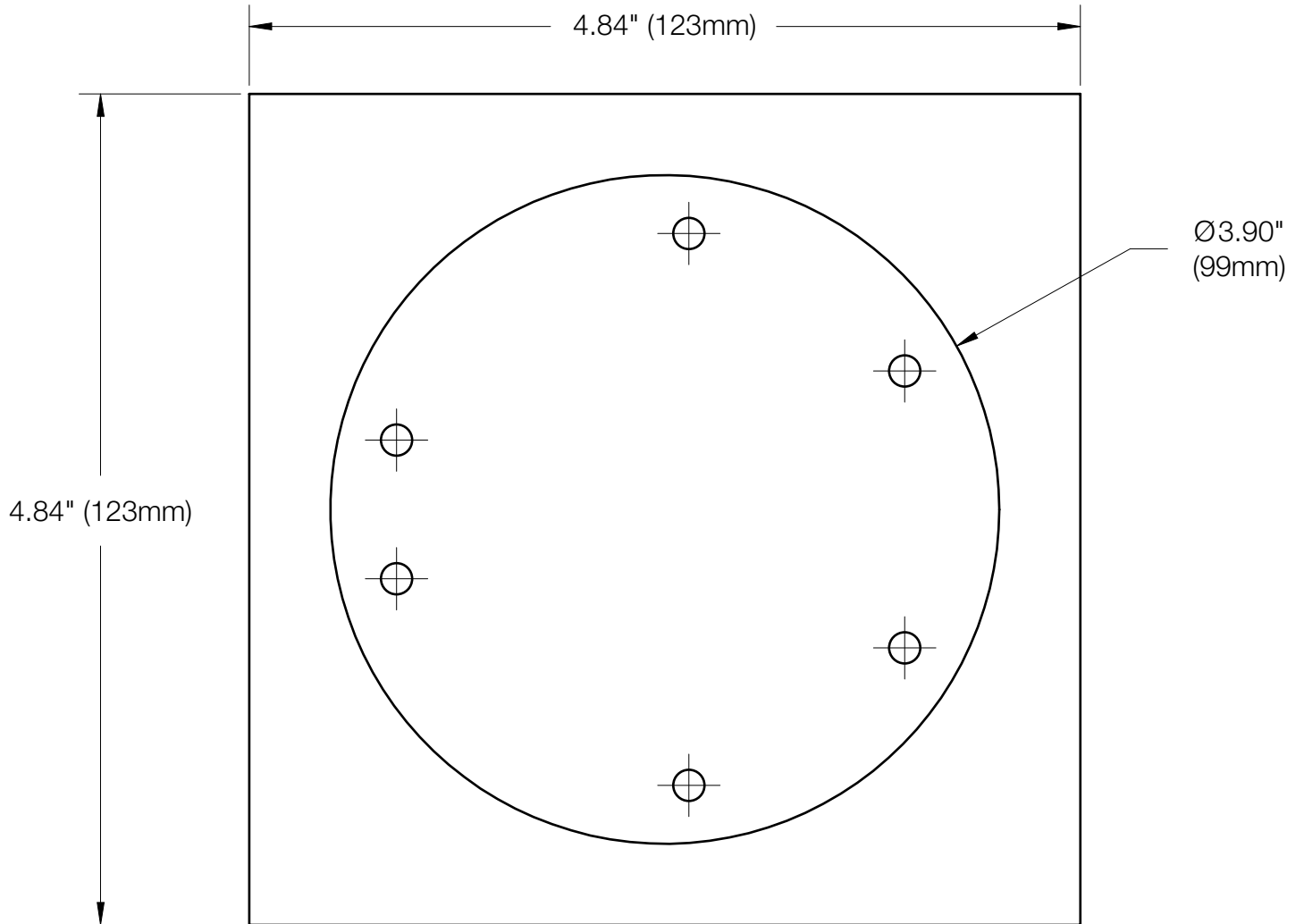
Get the configuration utility, installation manuals, and more information on this product at the AV Costar website.



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