



Contera^{IP}® Fisheye

Installation Manual

12MP

AV12CFE-250

AV COSTAR

Table of Contents

About Our Warranty	2
Global (3 Year) Limited Warranty	2
Camera Overview.....	3
Package Contents	4
Installation	5
Accessories.....	5
Camera Features.....	6
Surface (Ceiling and Wall) Mount	7
Cap and Junction Box Hardware Installation.....	9
Camera Power Up	11
Alarm I/O Functions	13
Restart the Camera.....	14
Reset to Factory Default Settings.....	14
Audio/SD Card Info.....	15
Camera Discovery, Setup, and Configuration	16
Camera Discovery	17
Web Interface Navigation	18
Live View.....	19
Image	20
Video & Audio.....	25
Network.....	28
Privacy Mask.....	34
Event	35
System Options.....	41
Administration	43
About.....	45
Support.....	45

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 Fisheye Megapixel Cameras

Camera Overview

The ConteralIP® Fisheye megapixel camera features 12-megapixel (MP) resolution with an integrated ultra-wide-angle lens for excellent, optimal image quality and optimum performance. The ConteralIP Fisheye camera can replace multiple fixed or PTZ cameras by recording an entire 360° panoramic field of view, without blind spots, and the ability to zoom into multiple regions of interest for a return on investment that's easily measured.

Regardless of time-of-day, this camera is ideal for applications with challenging lighting conditions. The series combines a day/night mechanical IR cut filter for the highest image quality at any time of day. For applications with poor lighting conditions, WDR™ (wide dynamic range) at 100dB 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, which is further enhanced by integrated LED illumination.

AV Costar™ was the first to bring H.264 to the mainstream market. Today we are proud to offer our next generation H.265 capable of delivering high quality video while saving over 50% of the data rate to reduce or prevent strain on the network.

ConteralIP Fisheye is designed for demanding environments. Certified to rigorous dust and water tests, the camera carries an IP67 rating. The rugged dome housing is IK-10 rated for vandal-prone applications.

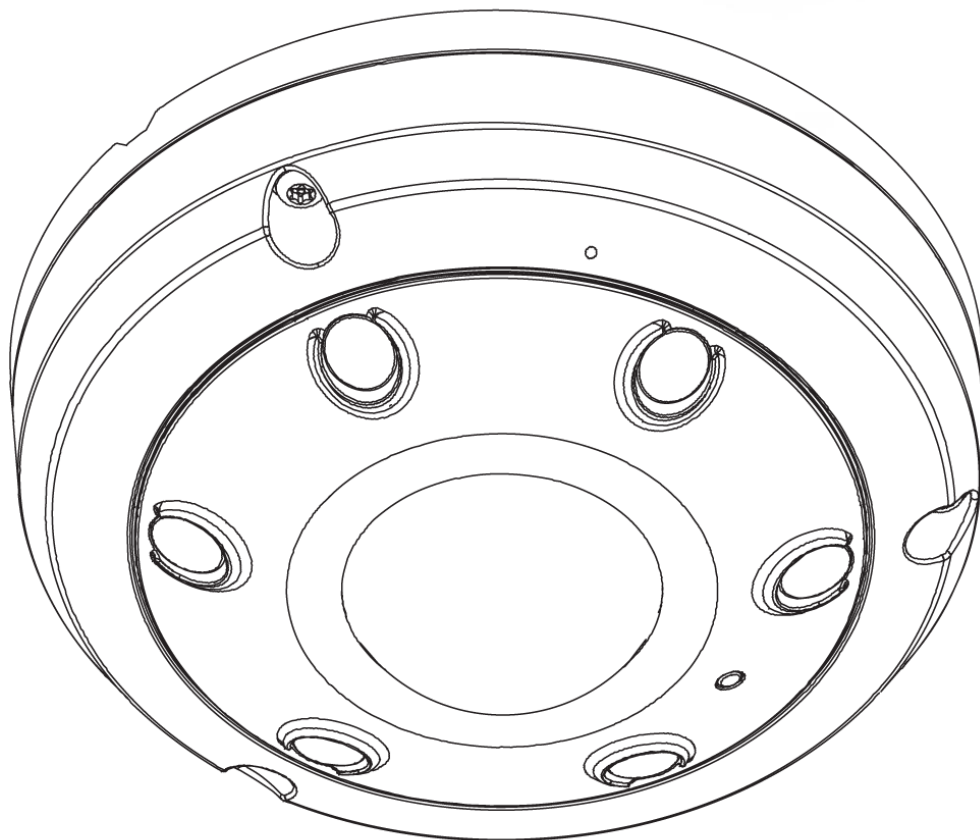
The microSDXC card slot supports up to 1TB of storage capacity for convenient onboard storage. The camera's power can be supplied via a Power-over-Ethernet (PoE - IEEE 802.3at) compliant network cable connection or a 12V DC power supply.

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

Package Contents

- AV12CFE-250

Description	QTY
AV12CFE-250 IP camera	1
Mounting Template	1
Quick Installation Guide	1
Mounting Hardware	1
Desiccant Packet	1



Installation

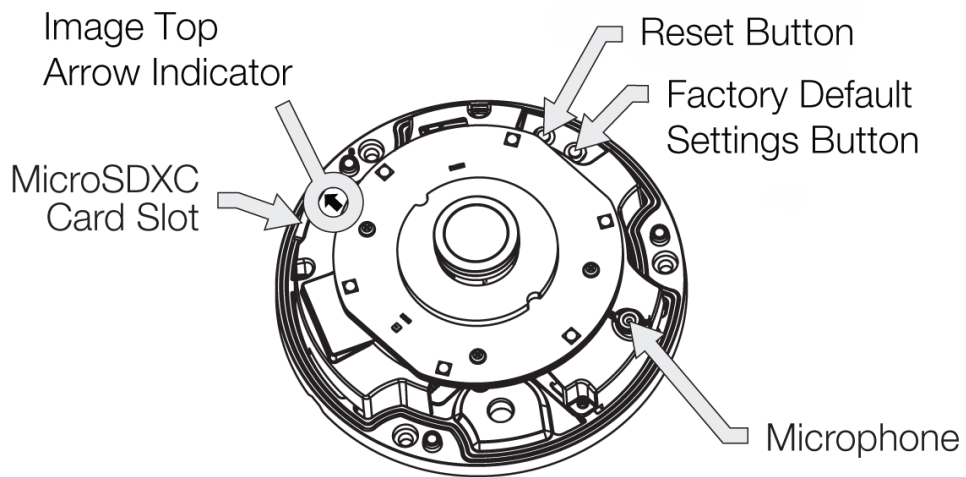
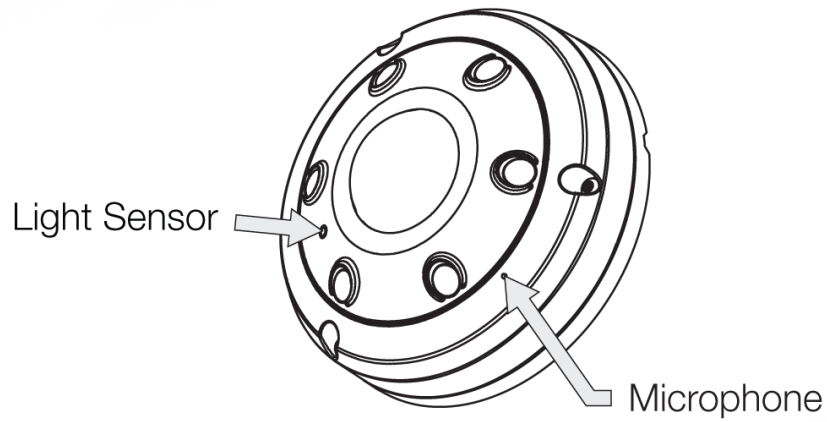
Accessories

AV Costar offers various mounting solutions for ConteralIP Fisheye cameras that provide wall, pendant, and corner mounting options. Please visit the camera models' webpage on www.avcostar.com or contact your local sales representative for information on all accessories.

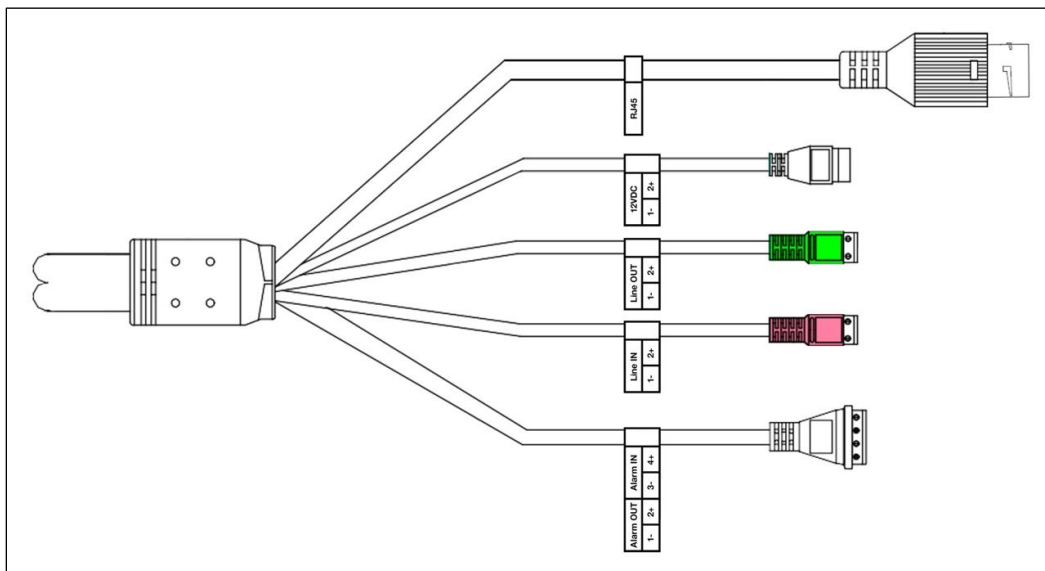
Model Number	Description
AV12CFE-ADPT	ConteralIP 2nd Gen Fisheye Mount Adapter (AV Costar White)
AV-CRMA-W	Corner Mount Adapter (AV Costar White)
AV-EBAPR	Electrical Box Adapter Plate (AV Costar White)
AV-PMA-W	Pole Mount Adapter (AV Costar White)
AV-PMJB-W	Pendant Mount Bracket with Standard Junction Box (AV Costar White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)
AV-WMJB-W	Wall Mount Bracket with Standard Junction Box (AV Costar White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)
CLD-CAP-W*	Mounting Cap for ConteralIP Outdoor Dome (AV Costar White)
CLD-JBA-W*	ConteralIP Outdoor Dome Round Junction Box (AV Costar White)

* Requires AV12CFE-ADPT

Camera Features



(Enabled in future firmware release)



Surface (Ceiling and Wall) Mount

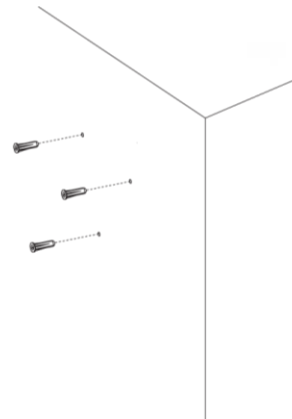
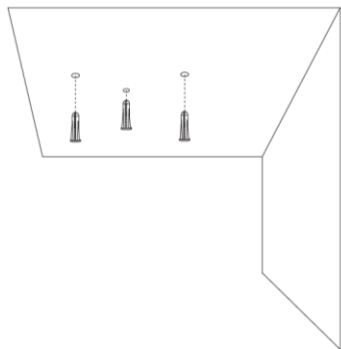
We recommend placing the ConteralIP Fisheye camera directly on a hard ceiling or wall.

Template, anchors, and screws are provided for mounting the camera.

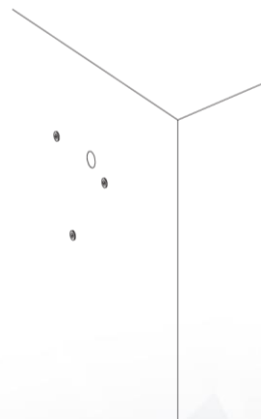
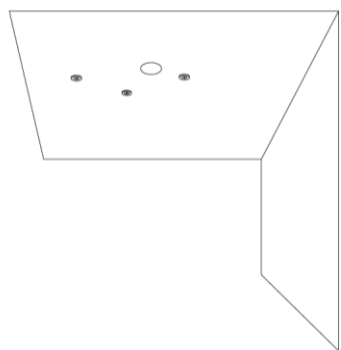
1. Position the mounting template at the desired installation location. The top of the template is the top of the video image.



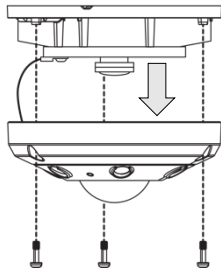
2. Drill three mounting holes and insert the included screw anchors.



3. Drill a hole for the interface cable.

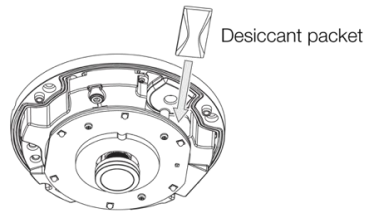


4. Remove the dome cover.

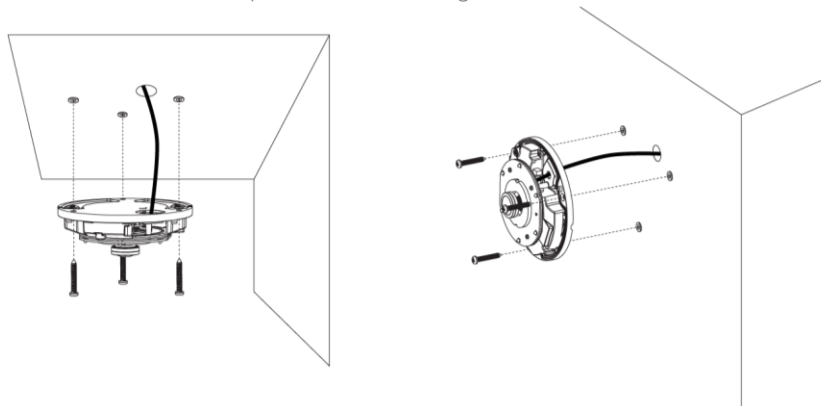


NOTE: Do not remove tether. Camera damage may occur.

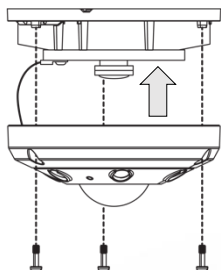
5. Put the desiccant packet in the suggested position.



6. Make alarm/audio/network/power connections to interface cable.
7. Install the camera feeding the interface cable through its hole. The arrow on the camera points in the direction of the top of the video image.



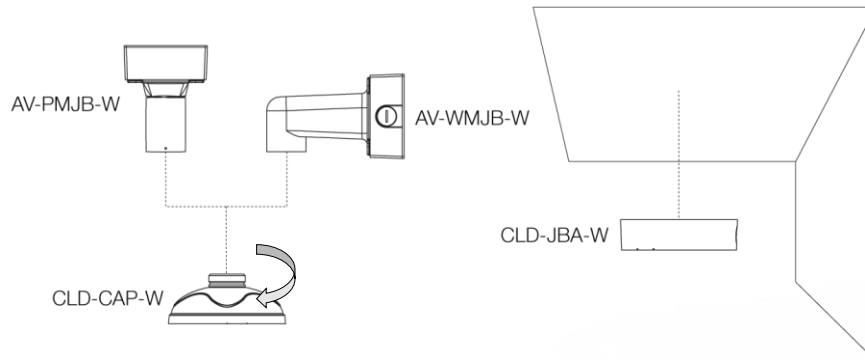
8. Replace the top cover and secure it tightly using the supplied tool.



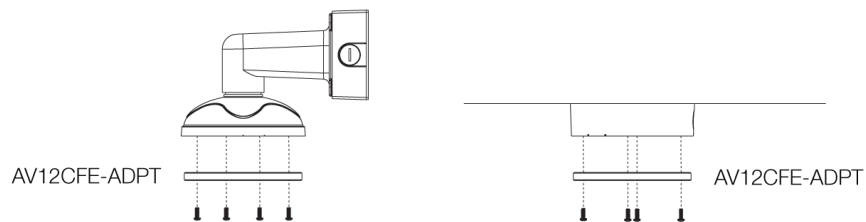
Cap and Junction Box Hardware Installation

Template, anchors, and screws are provided for mounting the camera.

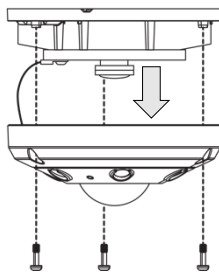
1. Screw the CLD-CAP-W cap to the desired 1.5" NPT mount (such as the AV-PMJB-W or AV-WMJB-W) or install the CLD-JBA-W junction box.



2. Feed cables through the mount and cap assembly.
3. Screw the adapter (AV12CFE-ADPT) to the cap.

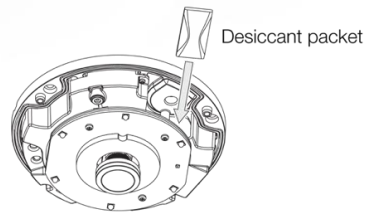


4. Remove the dome cover.

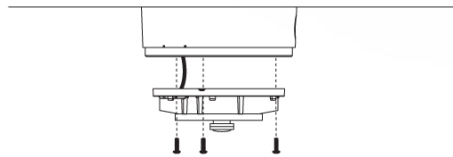
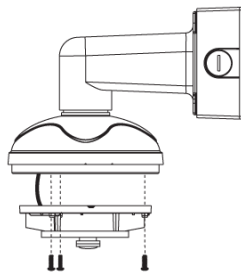


NOTE: Do not remove tether. Camera damage may occur.

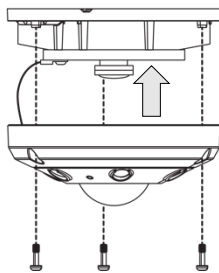
5. Put the desiccant packet in the suggested position.



6. Connect cables from the unit to the cables from the cap/mount assembly.
7. Screw the camera to the adapter/cap/mount assembly. The arrow on the camera points in the direction of the top of the video image.



8. Replace the top cover and secure it tightly using the supplied tool.



Camera Power Up

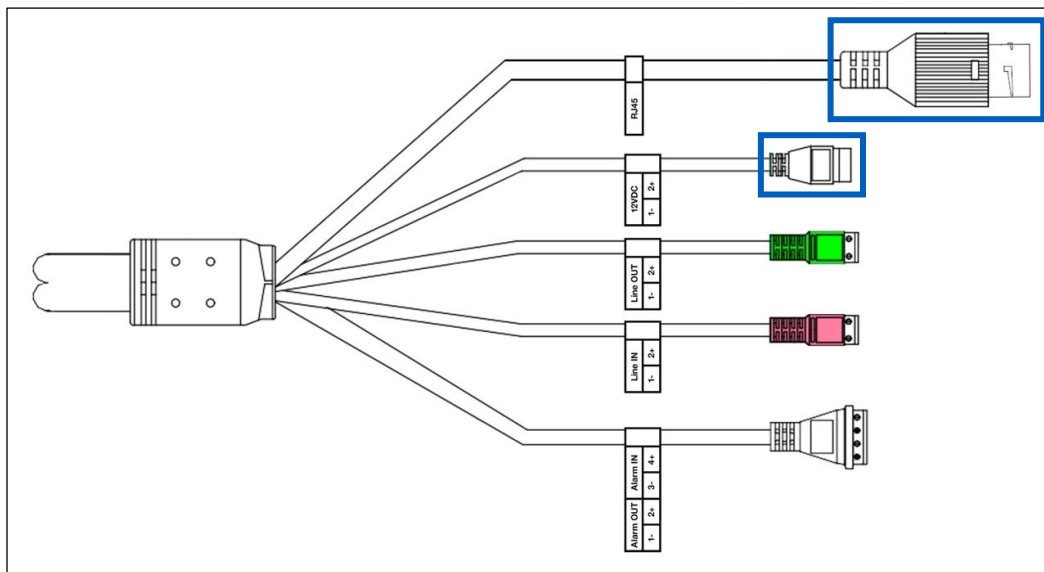


CAUTION! This product should be installed by a qualified service technician in accordance with the National Electrical Code (NEC 800 CC Section 60) or applicable local code. Wiring methods should be in accordance with the National Electrical Code/NFPA 70/ANSI, also with all local codes and authorities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

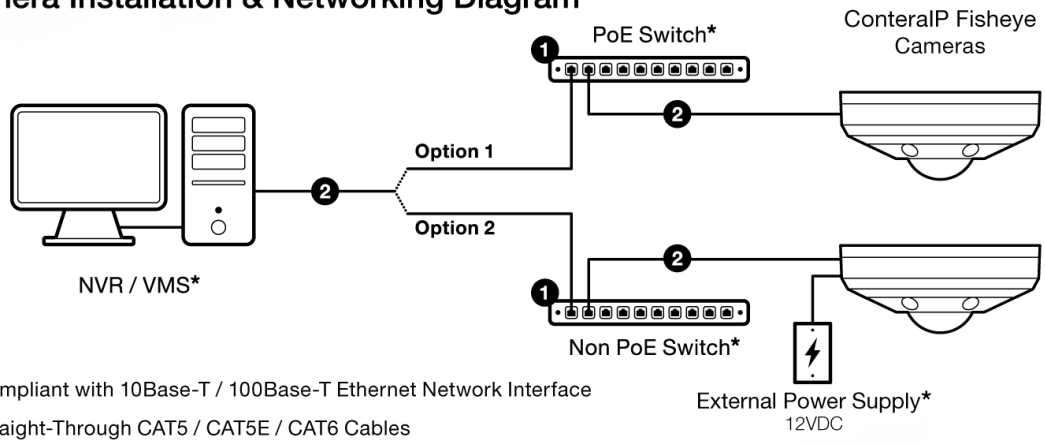
1. Connect the camera to a PoE+ port on 100Mbps network PoE+ switch using an Ethernet cable.
2. If the camera is powered by an outside power supply, connect the power wires from the external power supply (12VDC) to the power connector.



NOTE: This product is intended to be supplied by a Listed Power Adapter or DC power source, rated (1) 12VDC, 50/60Hz (Max. 15W); (2) 42.5-57VDC (Max. 15W) for PoE+ IEEE 802.3at, Class 4, 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.

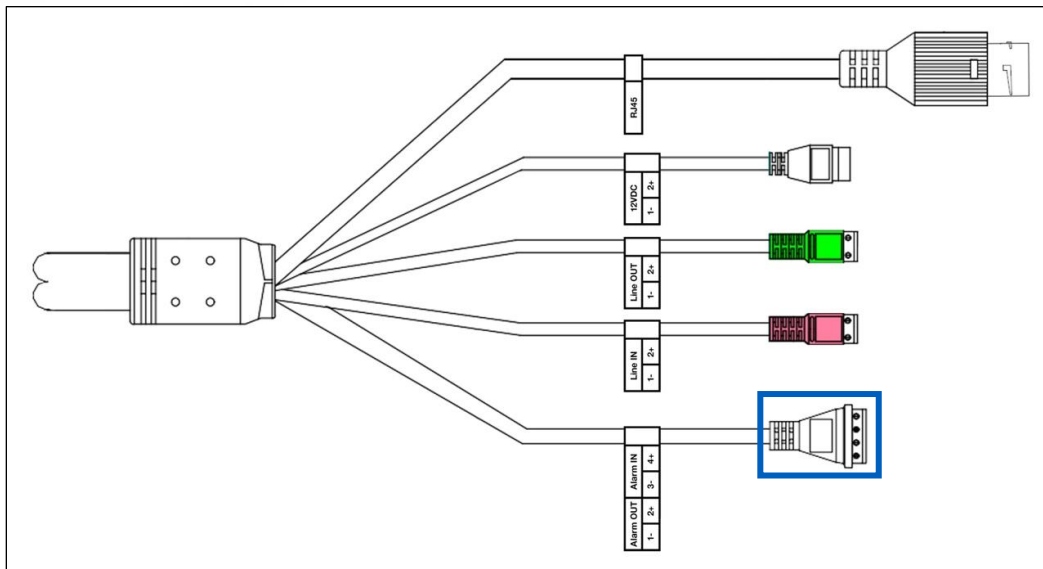
3. Connect the PoE+ switch to your computer's network port by using an ethernet cable.

Camera Installation & Networking Diagram



LED	Status	Description
Green	Constant illumination	Normal operation
None	None	No connection

Alarm I/O Functions



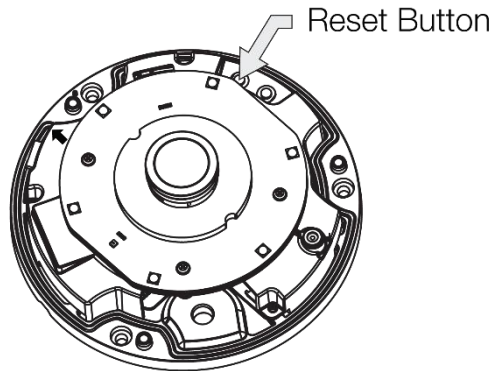
Connect the Alarm In (DI) connector to the alarm input sensor, and then connect the Alarm Out (DO) connector to the alarm output signal.

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

Alarm In (Dry Contact)	Alarm Out (Dry Contact)	
V sense	V sense	I sense
3.5~6.3VDC	0~30VDC	50mA (max)

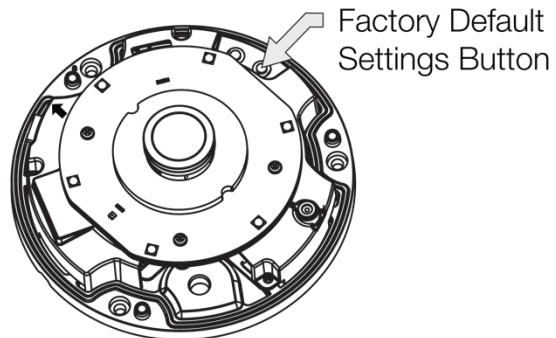
Restart the Camera

Press the Reset Button to restart the camera. Settings will not be changed.



Reset to Factory Default Settings

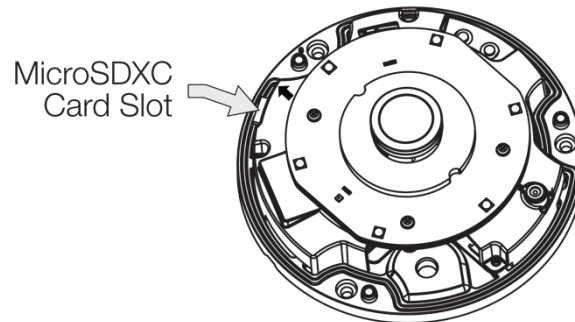
1. Press and hold the Factory Default Settings Button for 2 to 5 seconds, then release the button. This completely resets the camera to the factory default settings.



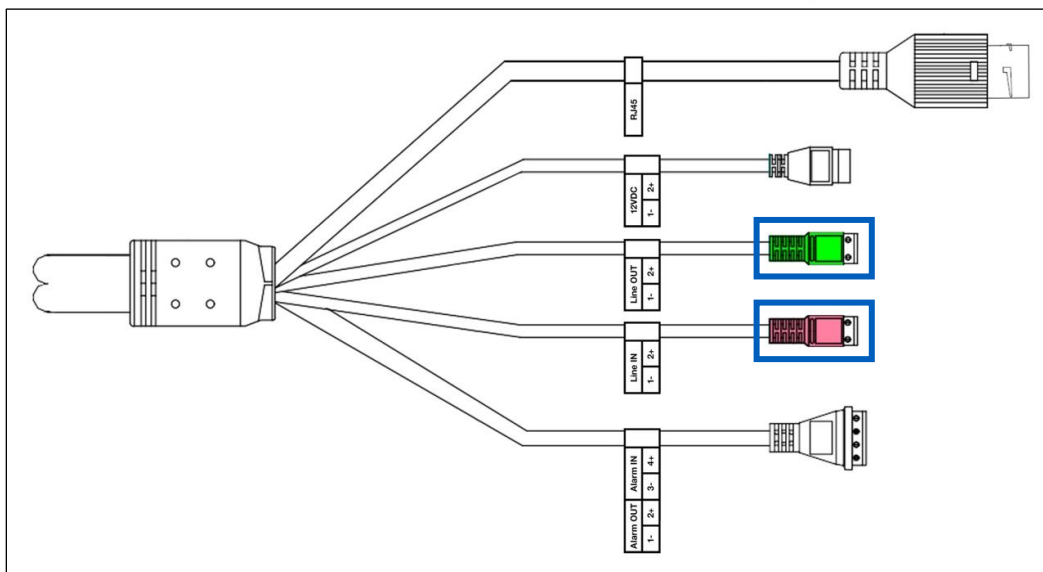
2. Also, the user can reset the camera to factory default or factory default except network settings via the camera web interface or the Costar Utility.

Audio/SD Card Info

- MicroSDXC Card Slot (Up to 1TB card capacity)



- Audio Connectors



NOTE: The Line In audio input requires the source to have amplification.

Camera Discovery, Setup, and Configuration

AV Costar Utility is recommended for camera discovery and setup. Software can be found on the website of AV Costar <http://www.arecontvision.com/software.php>.

The AV Costar Utility can provide multiple discovery options including broadcast and multicast, check the status of a camera, change the camera settings, import and export camera settings via a .csv file, and update firmware and/or hardware from virtually anywhere with a network connection.

The AV Costar Utility tool is efficient and convenient for mass or single camera uploads whether used for large installations that require an update to multiple settings, or smaller installations where only one camera needs to be changed.

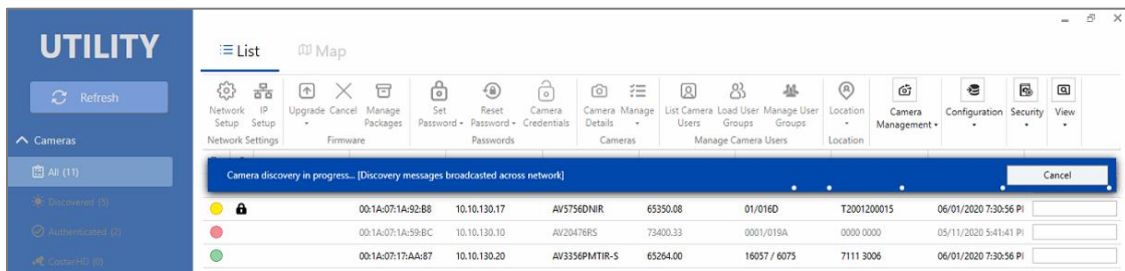
The AV Costar Utility version v3.1.2x+ tool is compatible with all AV Costar ConteralIP cameras. The user manual for the software is available on our website.

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.



4. If there is no DHCP server present in the network, the camera will default to the following IP Address “192.168.1.168”.

NOTE: A password must be entered before the camera can be used. To choose a password, visit the camera’s webpage or use the configuration utility.



INITIAL PASSWORD SETUP

Prior to accessing this device for the first time a unique admin password must be created:

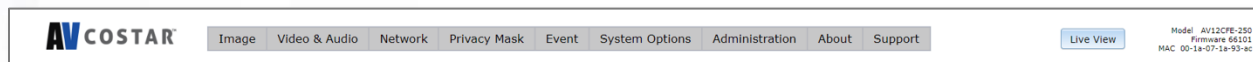
User Name: **admin**

Password:

Confirm Password:

Prior to accessing this device for the first time a unique admin password must be created

Web Interface Navigation



The menu categories are located on the top of the web interface, and clicking on one of the buttons will show the settings for that category in the left column of the page. To the right of the configuration menu categories are the Live View camera display button and important camera information.

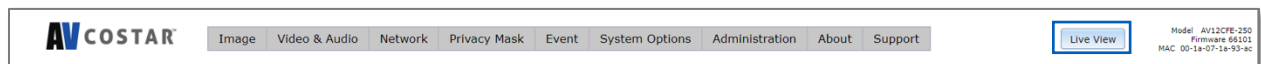
The following are the camera settings available on the top of the web interface:

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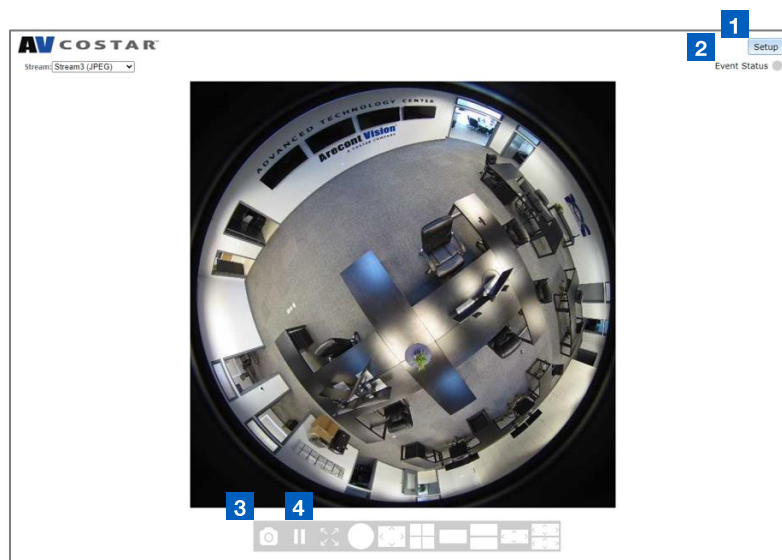
- **Image**
 - Basic Image Settings
 - Mirror Image
 - WDR (Wide Dynamic Range) Mode
 - Lighting Compensation Frequency
 - Day/Night Mode
 - IR Control
 - OSD (On-Screen Display)
 - ROI (Regions of Interest)
- **Video & Audio**
 - Video
 - Main Stream Configuration
 - Sub Stream Configuration
 - Third Stream Configuration
 - Audio
- **Network**
 - Basic Network Settings
 - 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
- FTP Upload Handler
- SMTP (Simple Mail Transfer Protocol) Notification
- Network Storage
- SD Card
- **System Options**
 - Firmware Upgrade
 - Configuration Upload and Download
 - Reboot & Restore Settings
 - Date/Time
- **Administration**
 - Administration settings
 - Viewer Management
- **About**
- **Support**

Live View

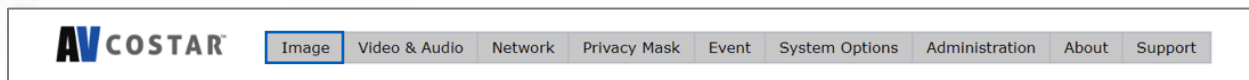


Live View allows a user to view the current camera image, shows event status, and allows for a SnapShot to be taken. Live View shows the camera's third stream.

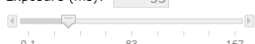



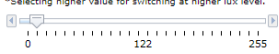

1. Setup button: Returns to the main camera interface.
2. Event Status: Flashes blue when an event is triggered.
3. SnapShot: Takes a still frame image of the camera stream and displays it in a pop-up window.
4. Additional Camera Controls: Coming in a future firmware update.

Image



Menu	Feature	Description
<p>Image</p> <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>	Brightness	Controls the overall brightness of the camera image and works in conjunction with the exposure controls to maintain the image brightness.
	Sharpness	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.
	Saturation	Controls the color saturation of the image.
	Contrast	Manually controls Gamma level (affects the overall luminance of the image).
	Hue	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>Mirror Image</p> <p><input type="checkbox"/> Flip Vertically</p> <p><input type="checkbox"/> Flip Horizontally</p> <p><input checked="" type="checkbox"/> Auto White Balance</p>	<p>Mirror Image:</p> <p>Flip Vertically, Flip Horizontally</p>	Flips the image horizontally (flip left-to-right) or vertically (flip top-to-bottom). They can be selected at the same time.
	Auto White Balance	Checkbox enables the automatic white balance feature of camera, which will automatically remove unrealistic color cast so that white is rendered a neutral white in the image.

<p>WDR Mode</p> <p><input type="radio"/> DWDR <input checked="" type="radio"/> LDR</p> <p><input checked="" type="checkbox"/> Auto Exposure</p> <p>Stream Profiles</p> <p><input checked="" type="radio"/> Balanced Mode <input checked="" type="checkbox"/> Slow Shutter <input type="radio"/> Quality Mode <input type="radio"/> Moonlight Mode <input type="radio"/> Custom Exposure Mode</p> <p>Exposure (ms): <input type="text" value="33"/></p> <p></p> <p>Shutter Speed <input type="text" value="1/30"/></p>	<p>DWDR</p>	<p>Digital WDR (DWDR) enhances dark areas by adjusting the gamma value.</p>
	<p>LDR</p>	<p>Will not combine long and short exposures into one frame, resulting in better low light performance.</p>
	<p>Auto Exposure</p>	<p>Automatically adjusts illumination and exposure values.</p>
	<p>Stream Profiles:</p> <p>Balance Mode -Slow Shutter, Quality Mode, Moonlight Mode, Custom Exposure 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>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. 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. Choose 50Hz for Europe and China and 60Hz for US and Japan. This parameter will have no effect when the dominate light is sunlight. A user can select Custom and manually set a frequency between 5Hz and 255Hz.</p>
<p>Day/Night Mode</p> <p> <input checked="" type="radio"/> Automatic <input type="radio"/> Day <input type="radio"/> Night <input type="radio"/> Schedule Day Mode </p> <p>Day to Night Switching Level: <input type="text" value="10"/></p> <p><small>*Selecting higher value for switching at higher lux level.</small></p>  <p>Night to Day Switching Level: <input type="text" value="50"/></p> <p><small>*Selecting higher value for switching at higher lux level.</small></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, Day, Night, 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 and 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 : <input type="text" value="manual"/></p> <p>IR LED 1 : <input type="text" value="high"/></p> <p>IR LED 2 : <input type="text" value="high"/></p> <p>IR LED 3 : <input type="text" value="high"/></p> <p>IR LED 4 : <input type="text" value="high"/></p> <p>IR LED 5 : <input type="text" value="high"/></p> <p>IR LED 6 : <input type="text" value="high"/></p>	<p>IR control:</p> <p>Off, Auto, Manual</p>	<p>Off: Disables IR.</p> <p>Auto: Triggers all IR LEDs at high intensity when the camera switches to night mode.</p> <p>Manual: Manually adjusts the IR intensity or turns off each LED individually. The options are high, mid, low, or off. IR LEDs are triggered when the camera switches to night mode.</p>

<p style="text-align: center;">OSD</p> <p>Camera Name <input type="text" value="Network Camera"/></p> <p>Background <input type="checkbox"/> Enable Font Border Text color: <input type="text" value="White"/></p> <p>OSD to be shown on <input checked="" type="checkbox"/> Main Stream <input checked="" type="checkbox"/> Sub Stream <input checked="" type="checkbox"/> 3rd Stream-Jpeg</p> <p>Text Overlay Top Left <input type="text" value="OFF"/> Top Right <input type="text" value="OFF"/> Bottom Left <input type="text" value="OFF"/> Bottom Right <input type="text" value="OFF"/> <input type="button" value="Apply"/></p>	<p>Camera Name</p>	<p>Specifies a name for the camera. The maximum length is 32 characters.</p>
	<p>Background</p> <p>Enable Font Border</p>	<p>Enables a border for the text overlay.</p>
	<p>Text Color</p>	<p>Options are Black, White, Green, or Yellow.</p>
	<p>OSD to be shown on</p> <p>Main Stream, Sub Stream, 3rd Stream-Jpeg</p>	<p>Allows the On Screen Display to be enabled/disabled on a stream-by-stream basis.</p>
	<p>Text Overlay</p> <p>Off, Date/Time, Camera Name, Camera Name + Date/Time, Custom Text</p>	<p>There are four content positions (Top Left, Top Right, Bottom Left and Bottom Right) to display the text overlay.</p> <p>Off: Displays no 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 (Region of Interest)	
<p><small>* 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".</small></p> <p>Stream: Main Stream ▼</p> <p>ROI Zone 1: <input type="checkbox"/> Enable <input type="text" value="High"/> Save Area Del Area</p> <p>ROI Zone 2: <input type="checkbox"/> Enable <input type="text" value="High"/> Save Area Del Area</p> <p>ROI Zone 3: <input type="checkbox"/> Enable <input type="text" value="High"/> Save Area Del Area</p> <p>ROI Zone 4: <input type="checkbox"/> Enable <input type="text" value="High"/> Save Area Del Area</p> <p>ROI Zone 5: <input type="checkbox"/> Enable <input type="text" value="High"/> Save Area Del Area</p>	<p>ROI (Region 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. 	

Video & Audio

Image
Video & Audio
Network
Privacy Mask
Event
System Options
Administration
About
Support

Menu	Feature	Description
<p style="text-align: center; color: #0070c0; margin: 0;"><u>Video</u></p> <hr/> <p>Main Stream</p> <p>Codec</p> <p><input checked="" type="radio"/> H.264</p> <p><input type="radio"/> H.265</p> <p>Perspective</p> <p><input checked="" type="radio"/> Ceiling Mount</p> <p><input type="radio"/> Wall Mount</p> <p>Dewarping Type</p> <p><input checked="" type="radio"/> Overview</p> <p><input type="radio"/> PTZ</p> <p><input type="radio"/> Quad View</p> <p><input type="radio"/> Panorama</p> <p><input type="radio"/> Panorama PTZ</p> <p><input type="radio"/> Double Panorama</p> <p><input type="radio"/> Double Panorama PTZ</p> <p>Resolution</p> <p><input checked="" type="radio"/> 2992x2992</p> <p><input type="radio"/> 2048x2048</p> <p><input type="radio"/> 1280x1280</p> <p><input type="radio"/> Variable Bitrate</p> <p><input checked="" type="radio"/> Maximum Bitrate</p> <p style="font-size: small;">(500~11000 kbps) 4000</p> <p>H.264 Quality (1..10) : 4</p> <p style="font-size: x-small;">* 10 - lowest quality, 1 - highest quality</p> <p><input type="radio"/> Constant Bitrate</p> <p style="font-size: x-small;">Bit Rate : 4000 (500~11000 kbps)</p>	Codec	Use the radio buttons to select the desired compression codec.
	Perspective	Use the radio buttons to select the mounting location. Dewarping Types available will change based on the selection. Dewarped video will be different for each Perspective even with the same type selected.
	Ceiling Mount, Wall Mount	
	Dewarping Type	Use the radio buttons to select the dewarping type for the stream. Options vary based on the Perspective chosen.
		<p>Ceiling Mount Options: Overview, PTZ, Quad View, Panorama, Panorama PTZ, Double Panorama, Double Panorama PTZ</p> <p>Wall Mount Options: Overview, PTZ, Panorama, Double Panorama</p>
	Resolution	Use the radio buttons to select the desired resolution. Options vary based on the Perspective and Dewarping Type chosen.
	Variable Bitrate	Maintains the Quality setting configured. There may be variation in the bitrate 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 500 to 11,000 kbps.	

<p>Frames Per Seconds: <input type="text" value="15"/> (0~15)fps</p> <p>GOP Length : <input type="text" value="15"/> (1~120)</p> <p><input type="button" value="Apply"/></p>	H.264 Quality	H.264 image quality setting for variable bit rate control. Setting a lower value result in higher image quality, higher value results in lower image quality.
	Frames Per Seconds	Frame rate adjustment for the camera video stream.
	GOP Length	Specifies how many frames between two consecutive I-Frames.
<p>Sub Stream</p> <p><input checked="" type="checkbox"/> Enable</p> <p>Codec</p> <p><input checked="" type="radio"/> H.264</p> <p><input type="radio"/> H.265</p> <p>Perspective</p> <p><input checked="" type="radio"/> Ceiling Mount</p> <p>Dewarping Type</p> <p><input checked="" type="radio"/> Overview</p> <p><input type="radio"/> PTZ</p> <p><input type="radio"/> Quad View</p> <p><input type="radio"/> Panorama</p> <p><input type="radio"/> Panorama PTZ</p> <p><input type="radio"/> Double Panorama</p> <p><input type="radio"/> Double Panorama PTZ</p> <p>Resolution</p> <p><input checked="" type="radio"/> 2992x2992</p> <p><input type="radio"/> 2048x2048</p> <p><input type="radio"/> 1280x1280</p> <p><input type="radio"/> 960x960</p> <p><input type="radio"/> Variable Bitrate</p> <p><input checked="" type="radio"/> Maximum Bitrate</p> <p>(500~7000 kbps) <input type="text" value="4000"/></p>	Enable	Enables or disables the sub stream.
	Codec	Use the radio buttons to select the desired compression codec.
	Perspective	The Perspective setting for the sub stream is automatically set to match the main stream.
	Dewarping Type	<p>Use the radio buttons to select the dewarping type for the stream. Options vary based on the Perspective chosen.</p> <p>Ceiling Mount Options: Overview, PTZ, Quad View, Panorama, Panorama PTZ, Double Panorama, Double Panorama PTZ</p> <p>Wall Mount Options: Overview, PTZ, Panorama, Double Panorama</p>
	Resolution	Use the radio buttons to select the desired resolution. Options vary based on the Perspective and Dewarping Type chosen.
	Variable Bitrate	Maintains the Quality setting configured. There may be variation in the bitrate output from the camera using this mode.

<p>H.264 Quality (1..10) : <input type="text" value="4"/></p> <p>* 10 - lowest quality, 1 - highest quality</p> <p><input type="radio"/> Constant Bitrate</p> <p>Bit Rate : <input type="text" value="4000"/> (500~7000 kbps)</p> <p>Frames Per Seconds: <input type="text" value="15"/> (1~15)fps</p> <p>GOP Length : <input type="text" value="15"/> (1~120)</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 500 to 11,000 kbps.</p>
	<p>H.264 Quality</p>	<p>H.264 image quality setting for variable bit rate control. Setting a lower value result 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>GOP Length</p>	<p>Specifies how many frames between two consecutive I-Frames.</p>
<p>Third Stream</p> <p>Video Compression</p> <p><input checked="" type="radio"/> MJPEG</p> <p>Resolution</p> <p><input checked="" type="radio"/> 640x640</p> <p>Frames Per Seconds: <input type="text" value="15"/> (0~15)fps</p> <p>Quality</p> <p><input type="radio"/> High</p> <p><input checked="" type="radio"/> Mid</p> <p><input type="radio"/> Low</p> <p><input type="button" value="Apply"/></p>	<p>Video Compression: MPJEG</p>	<p>The third stream is designed for the live view in the 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 640 x 640.</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>
<p>Audio</p> <p><input checked="" type="checkbox"/> Audio In Volume</p> <p><input type="radio"/> High</p> <p><input checked="" type="radio"/> Middle</p> <p><input type="radio"/> Low</p> <p><input checked="" type="checkbox"/> Audio Out Volume</p> <p><input type="radio"/> High</p> <p><input checked="" type="radio"/> Middle</p> <p><input type="radio"/> Low</p> <p>Encoding</p> <p><input checked="" type="radio"/> u-Law</p> <p><input type="radio"/> A-Law</p>	<p>Audio In: Volume</p> <p>Audio Out: Volume</p> <p>Encoding</p>	<p>Audio In/Audio Out: Enables the Audio In/ Audio Out features on the camera.</p> <p>Volume: Specifies the volume level of Audio In/Audio Out: High, Middle, or Low.</p> <p>Encoding: Specifies the encoding algorithm: u-Law or A-Law.</p>

Menu	Feature	Description
<p>Network</p> <hr/> <p>IP Assignment</p> <p><input type="checkbox"/> DHCP</p> <p><input type="checkbox"/> Lock IP</p> <p>IP Address: <input type="text" value="10.10.80.35"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Default Gateway: <input type="text" value="10.10.80.1"/></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>DNS</p> <p>Primary DNS: <input type="text" value="10.5.50.5"/></p> <p>Secondary DNS: <input type="text" value="10.4.50.5"/></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><input type="button" value="Apply"/></p>	<p>IP Assignment:</p> <p>DHCP, Lock IP, IP Address, Subnet Mask, 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: Prevents the changing of the IP address when set manually.</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, Second HTTP Port, 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>Port:</p> <p>Primary DNS, Secondary DNS</p>	<p>Configures the Primary and Secondary DNS.</p>
	<p>IPv6 Settings:</p> <p>Enable IPv6, IPv6 Address, Address Prefix, Default Route, Router Advertisement, 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>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>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>
	<p>Management DSCP</p>	<p>Sets DSCP value for non-video traffic.</p>
<p>RTSP</p> <p>Port : <input type="text" value="554"/> (554, 1025~65535)</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream1</p> <p><input type="checkbox"/> Enable RTSP Stream1 Metadata</p> <p>Path1 : <input type="text" value="stream1"/></p> <p>Link for external media players : rtsp://10.10.80.35:554/stream1</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream2</p> <p><input type="checkbox"/> Enable RTSP Stream2 Metadata</p> <p>Path2 : <input type="text" value="stream2"/></p> <p>Link for external media players : rtsp://10.10.80.35:554/stream2</p> <p><input checked="" type="checkbox"/> Enable RTSP Unicast Stream3</p> <p><input type="checkbox"/> Enable RTSP Stream3 Metadata</p> <p>Path3 : <input type="text" value="stream3"/></p> <p>Link for external media players : rtsp://10.10.80.35:554/stream3</p>	<p>Port</p>	<p>Configures the port number for stream 1 to stream 3. The range is 554/1025~65535.</p>
	<p>Enable RTSP Unicast Stream</p>	<p>Enables RTSP Unicast for stream 1 (Main stream), stream 2 (Sub Stream), and stream 3 (Third Stream)</p>
	<p>Enable RTSP Stream Metadata</p>	<p>Enables RTSP stream metadata for stream 1 (Main stream), stream 2 (Sub Stream), and stream 3 (Third Stream)</p>
	<p>Path</p>	<p>Configures the pathname for each stream.</p>
	<p>Link for external media players</p>	<p>Copies the link from here for external media players</p>
<p>Multicast</p> <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="225.26.147.172"/></p>	<p>Enable RTSP Multicast Stream</p>	<p>Enables RTSP Multicast stream for stream 1 (Main stream), stream 2 (Sub Stream), and stream 3 (Third Stream)</p>
	<p>Always Multicast</p>	<p>Enables the video streams to start multicast steaming without using RTCP</p>
	<p>Video IP</p>	<p>Configures the multicast address and the port number to stream video.</p>

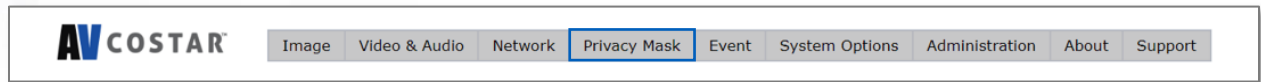
<p>Video Port : <input type="text" value="5000"/> (1025~65535)</p> <p>Audio IP : <input type="text" value="225.26.147.172"/></p> <p>Audio Port : <input type="text" value="5002"/> (1025~65535)</p> <p>Meta IP : <input type="text" value="225.26.147.172"/></p> <p>Meta Port : <input type="text" value="5004"/> (1025~65535)</p> <p>Path : <input type="text" value="stream1m"/></p> <p>TTL : <input type="text" value="255"/> (1~255)</p>	Video Port	
	Audio IP Audio Port	Configures the multicast address and the port number to stream audio. *This function is supported depends on models.
	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 style="text-align: center;">DDNS</h3> <p><input type="checkbox"/> Enable DDNS</p> <p>Host Name : <input type="text" value="ipcamera"/></p> <p>DDNS Server : <input type="text" value="DynDNS"/></p> <p>User Name : <input type="text"/></p> <p>Password : <input type="text"/></p> <p>Password Confirmation : <input type="text"/></p> <p><input type="button" value="Apply"/></p>	Enable DDNS	Enables DDNS service
	Host Name	Specifies the Host name registered with the DDNS server
	DDNS Server	Selects one of the public DDNS servers from the dropdown menu. Options are DynDNS, NO-IP, and Twi-DNS.
	User Name	Specifies the user name of the DDNS account.
	Password	Specifies the password of the DDNS account.
	Password Confirmation	Confirms the password of the DDNS account.
<h3 style="text-align: center;">SNMP</h3> <p><input checked="" type="radio"/> No SNMP Server</p> <p><input type="radio"/> SNMP V2c</p> <p>Public Community String : <input type="text" value="public"/></p> <p>Private Community String : <input type="text" value="private"/></p>	No SNMP Server	Disables SNMP function
	SNMP v2c	Enables SNMP version 2 support
	Public Community String Private Community String	Specifies the public and private names 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 type="radio"/> SNMP v3</p> <p>SNMP User : <input type="text" value="initial"/></p> <p>Authentication : <input type="text" value="None"/> Password : <input type="text"/></p> <p>Privacy : <input type="text" value="None"/> Password : <input type="text"/></p> <p>Trap Configuration</p> <p>Address : <input type="text" value="192.168.1.200"/></p> <p>Download MIB</p> <p>Apply</p>	<p>Trap Configuration: Address, 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>Authentication: Selects one of the Authentication modes from the dropdown menu. Options are None, MD5, and SHA.</p> <p>Password: Specifies the Password for the Authentication.</p>
	<p>Privacy Password</p>	<p>Privacy: Selects one of the encryption methods for SNMP v3 from the dropdown menu. Options are DES and AES.</p> <p>Password: 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>

<p style="text-align: center;">SSL</p> <p>Mode : <input checked="" type="radio"/> Disable <input type="radio"/> Optional</p> <p>Certificate : No certificate has been installed.</p> <p>Action : <input type="button" value="Install New Certificate"/></p> <p>Key PEM file : <input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/></p> <p>Certificate PEM file : <input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/></p> <p><input type="button" value="Apply"/></p>	<p>Mode:</p> <p>Disable, Optional</p>	<p>Disable: Support for HTTP only.</p> <p>Optional: Support for HTTP and HTTPS both.</p>
<p style="text-align: center;">FTP</p> <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 type="text" value="10"/></p> <p><input type="button" value="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 style="text-align: center;">802.1x</p> <p>Protocol : <input type="text" value="NONE"/></p> <p><input type="button" value="Apply"/></p>	<p>Protocol</p>	<p>The default is None to disable 802.1 x 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>Certificate</p>		<p>Shows the current status of the Certificate</p>
<p>Install New Certificate</p> <p>Key PEM file, Certificate PEM file</p>		<ol style="list-style-type: none"> 1. Locate Key PEM file and Certificate PEM file using the Choose File button and click the Upload button. 2. Click the Install New Certificate button to install the Certificate files.
<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>

<div style="text-align: center; color: #0056b3; font-weight: bold;">LDAP</div> <p><input type="checkbox"/> Enable LDAP</p> <p>Server : _____</p> <p>Port : <input type="text" value="389"/> (389, 636, 1025~655)</p> <p>Base dn : _____ dc=ipcamera,dc=com</p> <p>Bind dn template : _____ cn=%u,ou=people,dc=ipcamera,dc=com</p> <p>Search dn template : _____ cn=%u</p> <p>Administrator : _____ cn=admin,ou=groups,dc=ipcamera,dc=com</p> <p>Viewer : _____ cn=user,ou=groups,dc=ipcamera,dc=com</p> <p>CA Certificate : <input type="button" value="Choose File"/> No file chosen</p> <p><input type="button" value="Upload"/></p> <p><input type="button" value="Apply"/></p>		
	Enable LDAP	Enables LDAP service.
	Server	Specifies the IP address of the LDAP server.
	Port	Specifies the port address of the LDAP server. The default LDAP port is 389 . For LDAPS set the port to 636 (default for LDAPS). A custom port from 1025 to 65535 can also be set.
	Base dn	Specifies the starting point an LDAP server uses when searching for user's authentication within the Directory.
	Bind dn template	Identifies the username that will be used to do the searching and request the authentication.
	Search dn template	Defines at which node the search originates.
	Administrator	Specifies the administrator.
	Viewer	Specifies the viewer user.
	CA Certificate Choose File, Upload	For LDAPS, use the Choose File button to select a CA Certificate file and the Upload button to upload it to the camera.

Privacy Mask



Menu	Feature	Description
<p>Privacy Mask</p> <hr/> <p>Mask1: <input checked="" type="checkbox"/> <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Mask2: <input type="checkbox"/> <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Mask3: <input type="checkbox"/> <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Mask4: <input type="checkbox"/> <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Mask5: <input type="checkbox"/> <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p>	<p>Enable Privacy Mask</p>	<p>Enable up to 5 privacy mask areas by clicking the check boxes. Create a privacy mask by clicking the Set Area button then click and drag on the camera image to select the mask area shown by a yellow rectangle. The mask can be repositioned by clicking and dragging inside the mask area. When the desired mask is in place, click the Set Area button to finalize the mask. The mask will then turn black and obscure the area. To delete a mask, click the Del Area button or click the checkbox for the mask to be deleted.</p>

Event

Image
Video & Audio
Network
Privacy Mask
Event
System Options
Administration
About
Support

Menu	Feature	Description
<p>Motion Detection ▾</p> <p>Enable : <input checked="" type="checkbox"/></p> <p>Sensitivity : <input type="text" value="30"/> (0~100)</p> <p>Zone 1 : <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Zone 2 : <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Zone 3 : <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Zone 4 : <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p>Zone 5 : <input type="button" value="Set Area"/> <input type="button" value="Del Area"/></p> <p><input type="button" value="Motion Schedule"/></p>	Enable	Turns on and off on-camera motion detection
	Sensitivity	Sets the Sensitivity of the motion detection
	Zone [1-5] Set Area, Del Area	Enables and sets the area of motion detection zones. Click the Set Area button for the zone to be configured. Click and drag on the live camera view to select the area. A yellow rectangle will show the area selected. Click Set Area again to enable selected zone. The area will change in color to red. To remove a zone, click the Del Area button for the zone to be removed. This cannot be undone.
	Motion Schedule	<p>Configure the motion schedule by holding down the mouse button and clicking the time block to enable the schedule settings on the selected time. A light blue color on the time block indicates that the motion schedule is enabled, while a light grey color indicates that the motion schedule is disabled.</p> <p>Alternatively, you can manually enter numbers to configure the hours and minutes from start to end for all weekdays.</p> <p>S: Click "S" to enable the entire day.</p> <p>D: Click "D" to clear the entire day.</p>

<p>Alarm Handler ▾</p> <p><input type="checkbox"/> Enable Alarm Detection</p> <p>Alarm Schedule</p>	<p>Enable Alarm Detection</p>	<p>Enables Alarm Detection (Alarm In) function.</p>
	<p>Alarm Schedule</p>	<p>Configures the alarm schedule by holding down the mouse button and clicking the time block to enable the schedule settings on 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 numbers to configure the hours and minutes from start to end for all weekdays.</p> <p>S: Click “S” to enable the entire day.</p> <p>D: Click “D” to clear the entire day.</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>Type <input p="" type="text" value="N.O." ▾<=""/> <p>Off Time <input type="text" value="0"/> (0~30s)</p> <p>Apply</p> </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 detection event is detected, the Alarm out will be triggered.</p>
	<p>Trigger Tamper Detection</p>	<p>When a tamper detection event is detected, the Alarm out will be triggered.</p>
	<p>Type</p>	<p>Selects the type: N.O (Normal Open) or N.C (Normal Close)</p>
	<p>Off Time</p>	<p>Specifies the alarm duration</p>

<p>Tamper Detection</p> <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>Tampering Schedule</p> <p>Sensitivity</p>	<p>Enables Tampering Detection function.</p> <p>Configures the alarm schedule by holding down the mouse button and clicking the time block to enable the schedule settings on 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 numbers to configure the hours and minutes from start to end for all weekdays.</p> <p>S: Click "S" to enable the entire day.</p> <p>D: Click "D" to clear the entire day.</p> <p>Configures the sensitivity level of Tampering Detection: High, Medium, and Low.</p>
<p>FTP Upload Handler ▼</p> <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 Scheduled <p>Apply</p>	<p>Remote Server</p> <p>Host Address, Port, Username, Password</p> <p>FTP Upload Handler</p> <p>Enable Trigger Event</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>Enables and selects a desired trigger source. The options are Trigger Alarm Detection, Trigger Motion Detection, Trigger Tampering Alarm, and Trigger Scheduled.</p>

<p>SMTP Notification ▾</p> <p>SMTP Notification Handler</p> <p>From : <input type="text"/></p> <p><input type="checkbox"/> Trigger Alarm Detection <input type="checkbox"/> Trigger Motion Detection <input type="checkbox"/> Trigger Tampering Alarm</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> <p><input type="button" value="Apply"/></p>	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, and Trigger Tampering Alarm.</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 Scheduled <p><input type="button" value="Apply"/></p>	<p>Login Certificate</p>	<p>Specifies the login Username and Password for the network storage server.</p>
	<p>Recipient Setup</p> <p>Network Storage Status, Network Address, Folder Name, Record Type, Mount and Remove Network Storage</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>Network Storage Handler</p>	<p>Enables and selects a desired trigger source. The options are Trigger Alarm Detection*, Trigger Motion Detection, Trigger Tampering Alarm, and Trigger Scheduled.</p>

<div data-bbox="219 283 511 840"> <p>SD Card ▼</p> <p>Enable</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"/> Manual Record <input type="radio"/> Network Failure <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="button" value="Video"/></p> <p><input type="button" value="Apply"/></p> </div>	<p>Enable</p> <p>SD Card Information</p> <p>Available Storage, Format SD Card, Usage, Status, Overwrite when storage full, Record Type</p>	<p>Enables and selects a desired trigger source. The options are Trigger Alarm Detection*, Trigger Motion Detection, Trigger Tampering Alarm, and Manual Record.</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>
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System Options

Image
Video & Audio
Network
Privacy Mask
Event
System Options
Administration
About
Support

Menu	Feature	Description
<p style="text-align: center; color: blue; font-weight: bold; text-decoration: underline;">System Options</p> <hr/> <p>Firmware Upgrade Please select a file to update: File Name : <input type="button" value="Choose File"/> No file chosen <input type="button" value="Upgrade"/></p> <p>Configuration Management Importing : <input type="button" value="Choose File"/> No file chosen <input type="button" value="Import"/> Exporting : <input type="button" value="Export"/></p> <p>Download Log <input type="button" value="Download"/></p> <p>Reboot & Restore Settings <input type="button" value="Reboot the Camera"/> <input type="button" value="Restore to Factory Default Settings Except Network Settings"/> <input type="button" value="Restore to Factory Default Settings"/></p> <p>Camera Name <input type="text" value="AV12CFE-250-AC"/> <input type="button" value="save"/></p>	<p>Firmware Upgrade</p> <p>Configuration Management</p> <p>Importing, Exporting</p> <p>Download Log</p> <p>Reboot & Restore Settings</p> <p>Reboot the Camera, Restore Factory Default Settings Except Network Settings, Restore to Factory Default Settings</p> <p>Camera Name</p>	<p>Clicks Browse to choose the firmware upgrade file, and then clicks Upgrade.</p> <p>Records all the configuration information of the camera except network settings.</p> <p>Import: Imports a Configuration file from other cameras. Export: Exports a Configuration file from this camera.</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. Restore Factory Default Settings Except Network Settings: Restores all settings to factory default except the network settings. Restore to Factory Default Settings: Restores all settings to factory default.</p> <p>Specifies a name for the camera. The maximum length is 32 characters.</p>

<h3>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: 0.north-america.pool.ntp</p> <p> <input type="button" value="Apply NTP Server Configuration"/> <input 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, 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, clicks Apply NTP Server Configuration.</p> <p>NOTE: Please make sure 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 selected, clicks Update Time from the computer.</p>
	Time Zone	Specifies the country/city of the time zone from the drop-down menu.
	NTP Server	Specifies the desired NTP server

<p>Viewer Management</p> <p>User List: <input type="text" value=""/></p> <p><input type="button" value="New User"/> <input type="button" value="Delete User"/></p> <p><u>User Information</u></p> <p>Username : <input type="text"/></p> <p>Viewer Password : <input type="password"/></p> <p>Confirmation : <input type="password"/></p> <p>Access Level : <input type="radio"/> Admin <input type="radio"/> Viewer</p> <p><input type="button" value="Set"/></p>	<p>Viewer Management</p> <p>User List, User Name, Viewer Password, Confirmation, Access Level, 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 & Audio Network Privacy Mask Event System Options Administration About Support

Menu	Feature	Description
<p>About</p> <hr/> <p>Model Name : AV12CFE-250</p> <p>Firmware : 66101</p> <p>Serial Number : TSCD11004414</p> <p>MAC Address : 00-1a-07-1a-93-ac</p>	About	Displays camera information: Model Name, Firmware, Serial Number, and MAC Address.

Support

Image Video & Audio Network Privacy Mask Event System Options Administration About Support

Menu	Feature	Description
<p>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 useful hyperlinks for users who would like to get more information about the camera.



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+1.818.937.0700 | www.avcostar.com | avsales@arecontvision.com