

ConteralP® Fisheye Megapixel Camera

12 Megapixel (MP) H.265/H.264 All-in-One 360° Panoramic True Day/Night Outdoor Dome IP Camera, WDR (Wide Dynamic Range), NightView™, IR LEDs, Integrated Audio with Built-in Microphone and Video Analytics

H.265



The ConteralP® Fisheye megapixel camera features 12-megapixel (MP) resolution with an integrated ultra wide-angle lens for excellent, optimal image quality and optimum performance. The ConteralP Fisheye camera can replace multiple fixed or PTZ cameras by recording an entire 360° panoramic field of view, without blindspots, and the ability to zoom into multiple regions of interest for a return on investment that's easily measured. These cameras now support on-camera analytics. Several behaviors are available with the included standard analytic package. For even more powerful behaviors, optional advanced analytics are available.

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.

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



Single Sensor
360° Panoramic



NightView™



Wide Dynamic Range



Advanced
Video Analytics



Independently
Configurable
IR LEDs



True Day/Night
with Mechanical
IR Cut Filter



Tri-Encoder
H.265/H.264/MJPEG



Impact / Weather
Resistant IK-10
and IP66 Rated



All-in-One PoE
and Integrated Lens



1TB Max Capacity
MicroSDXC Card Slot



Built In Microphone
or Line In



Audio
Line Out

Series Features

- 12MP Resolution
- On-Camera Analytics
- Full 360° Panoramic Image without Blind Spots
- NightView™ for Strong Low Light Performance
- True Day/Night Functionality with Mechanical IR Cut Filter
- WDR: See Clearly in Shaded and Bright Light Conditions Simultaneously
- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, Multicasting, Forensic Zooming, and Scaling
- On-Screen Display (OSD)
- Triple Encoder: H.265/H.264/MJPEG
- Network Protocols Include SNMP, HTTPS, IPv6, DHCP, 802.1x, and More
- All-in-One H.265/H.264 Total PoE Solution, PoE and Auxiliary Power: 12V DC
- Integrated IR Illumination with a Range of 50ft (15m) for Scenes with Low or No Ambient Light
- MicroSDXC Card Slot for Onboard Storage
- Outdoor Rated IP67 and IK-10 Impact-Resistant Housing
- Audio Microphone or Line In/Line Out
- On board and remote dewarping. Onboard camera based, remote VMS based via AV Costar dewarp library
- Multiple On-Board Dewarping View Modes
- NDAA and TAA Compliant
- Built-in Microphone

Camera Imaging Specifications

Model		AV12CFE-250
Image Sensor		12MP CMOS Progressive Sensor
Optical Format		1/1.7"
Minimum Illumination	Color (Day Mode)	0.3 Lux
	B/W (Night Mode)	0.09 Lux, IR sensitive
Full FOV Resolution		4000 H x 3000 V 12MP (2992 H x 2992 V 9MP effective)
Scaling (See Scaling Resolutions Below)		Yes
IR Illumination		Yes
Dynamic Range		100dB Digital WDR
Frame Rates*	Single Stream	Up to 30fps Max Resolution All Stream 1 Dewarp Modes H.265/H.264
	Dual Streams	Up to 15fps Max Resolution All Stream 1 Dewarp Modes H.265/H.264 + 15fps Max Resolution All Stream 2 Dewarp Modes H.265/H.264
Lens		1.97mm, F2.3, H-FOV 180°, V-FOV 180°

Programmability

Optics	Fisheye Lens	
Low-Light Performance	NightView™ technology	
	IR Illuminators	
Programmable Shutter Speed	Auto/Manual, shutter time: 1 ~ 1/100000s	
Motion Detection	Up to 5 Areas	
Privacy Masking	Up to 5 Areas	
Backlight Compensation	Auto	
White Balance Mode	Auto/manual	
Gain Control	Auto	
Image Rotation	Horizontal and Vertical Mirror (Independent or Combined)	
Scaling	Stream 1	Ceiling Perspective Fisheye Overview: 2992x2992, 2048x2048, 1280x1280 PTZ: 2048x2048, 2048x1536, 1920x1080 Quad View: 3584x2688, 3584x2016, 2048x2048, 2048x1536, 1920x1080 Panorama: 4096x1024, 3584x1008, 2560x720 Double Panorama: 3584x2688, 3584x2016, 2560x1920, 2560x1440 Panorama PTZ: 3584x1344, 2560x960, 1920x720 Double Panorama PTZ: 3584x2688, 2560x1920, 1920x1440
		Wall Perspective Fisheye Overview: 2992x2992, 2048x2048, 1280x1280 PTZ: 2048x2048, 2048x1536, 1920x1080 Panorama: 3584x1344, 3584x1008, 2560x960, 2560x720, 1920x1080 Double Panorama: 3584x2688, 3584x2016, 2560x1920, 2560x1440
		Stream 2
	Wall Perspective Fisheye Overview: 2992x2992, 2048x2048, 1280x1280, 960x960 PTZ: 2048x2048, 1920x1080, 1280x1280, 960x960 Panorama: 2560x960, 2560x720, 1920x1080, 960x540 Double Panorama: 2560x1920, 2560x1440	
	Wide Dynamic Range	100dB Digital
	Miscellaneous	Color saturation, brightness, sharpness, contrast, white balance, day/night threshold, exposure control (including automatic gain control), hue, GOP length
On-Screen Display (OSD)	Time / Date / Camera Name / Custom Text	
Display/Dewarp Modes	Fisheye Overview, PTZ, Quad View, Panorama, Double Panorama, Panorama PTZ, Double Panorama PTZ	

Programmability (Cont.)

Standard Video Analytics¹	Motion Detection
	Camera Tamper
	Intrusion Detection
	Line Crossing
	Loitering
Optional Advanced Video Analytics¹	Object Classification (Person/Vehicle) ²
	Object Left/Removed ²
	People/Vehicle Counting ²

Data Transmission

Compression Type	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
Bit Rate Control	Stream 1: Variable 500-12000 Kbps; Max 500-11000 Kbps; Constant 500-11000 Kbps Stream 2: Variable 500-8000 Kbps; Max 500-7000 Kbps; Constant 500-7000 Kbps
Transmission Protocols	TCP/IP, UDP, ICMP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, SSH, SSL, SMTP, FTP, RTSP, UPnP, DHCP, DNS, NTP, RTP, RTCP, DynDNS support, 802.1x 10/100Base-TX Auto-adaptive Ethernet network interface, RJ45
Multi-Streaming	2 x H.265/H.264 stream, 1 x M-JPEG stream
Users	Live viewing/Administrator for up to 31 clients

Event Management

Event Trigger	Motion Detection, Alarm Handler, Tampering Alarm, Network Failure
Notifications	Trigger Alarm Output, E-mail, SMTP, FTP, Record Video to SD Card and Network Storage

Compliance

Industry Standard	ONVIF Profile S, G, T, M conformant
Listings	UL 62368-1, E489591
FCC Compliance	47 CFR FCC Part 15B Class A
Environmental	RoHS, WEEE
Markings	CE: EN55032, EN55035, EN61000-3-2, EN61000-3-3 Class A
Mechanical	IK-10 (IEC62262), IP67 (IEC60529)

1. Analytics are not designed for heavy traffic locations such as roads and intersections
2. Requires Optional Advanced Video Analytic License

Environmental

Operating Temperature	-40°C (-40°F) to 55°C (131°F)
Humidity	0% to 90% (non-condensing)

General Electrical

Alarm Input/Output	1 x input (wet contact)/1 x output (wet contact)
Power Over Ethernet	PoE IEEE 802.3at, Class 4 Total PoE solution (no external power requirement)
Auxiliary Power	12VDC
Power Consumption	15W max

IR Illuminator

LEDs	6pcs, independently configurable
Projection Distance	50ft (15m) max

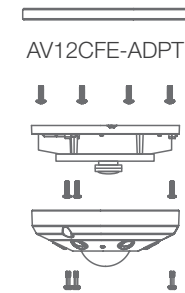
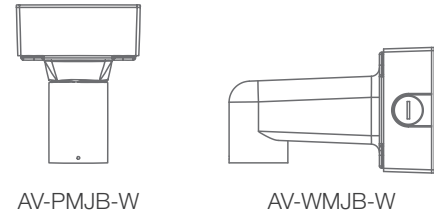
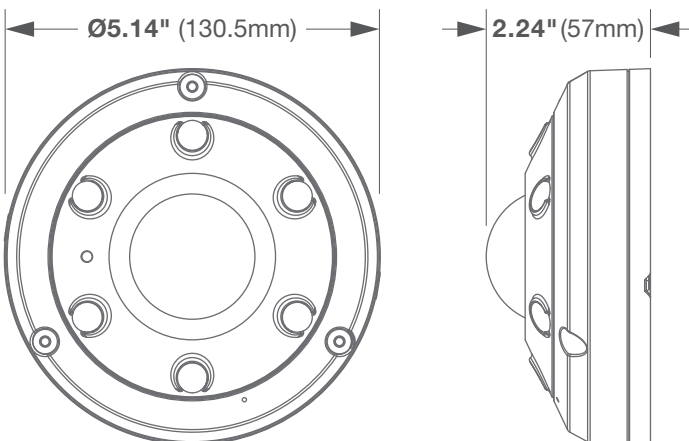
Audio Electrical

Streaming	Two-way
Compression	G.711 PCM 8 kHz/16 bits (A-Law/ μ -Law)
Input/Output	Built In Microphone - Line Input* / Line Output

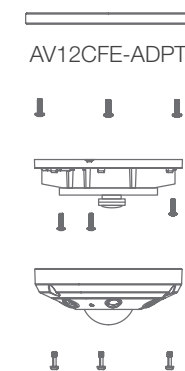
Mechanical

Casing	Die-cast aluminum chassis with polycarbonate dome bubble	
Mounting Options	Ceiling, Wall	
Dimensions <i>(See Dimensions)</i>	Unit	Ø5.14" (130.5mm) x 2.24" H (57mm)
	Packaged	5.63" H (143mm) x 6.14" W (156mm) x 6.14" L (156mm)
Weight	Unit	1.45lbs (0.657kg)
	Packaged	1.92lbs (0.87kg)
On Board Storage	MicroSDXC slot up to 1TB (card not included)	
Body Color	AV Costar White (Pantone® Cool Gray 1C)	

Dimensions



**Ceiling and Wall Mount
with Cap Options Assembly**



Junction Box Assembly

* Requires Amplification

See Next Page for Ordering Information



Model Numbers

12MP	AV12CFE-250	WDR
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Optional Advanced Video Analytics License

C-SEC-ADV-1	ConteraIP Advanced Security Analytics Single Sensor License
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Accessories

AV12CFE-ADPT	ConteraIP 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) <i>(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)</i>
AV-WMJB-W	Wall Mount Bracket with Standard Junction Box (AV Costar White) <i>(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)</i>
CLD-CAP-W*	Mounting Cap for ConteraIP Outdoor Dome (AV Costar White)
CLD-JBA-W*	ConteraIP Outdoor Dome Round Junction Box (AV Costar White)

Configurations



Surface mount dome

Create Your Model (Example: AV12CFE-250)

Megapixel Resolution Contera Product Line Body Type



* Requires AV12CFE-ADPT



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