

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, and Integrated Audio

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.

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 $^{\text{\tiny{TM}}}$ 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

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, and T compliant, providing interoperability between network video products regardless of manufacturer.



























Series Features

- 12MP Resolution
- 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 Line In / Line Out
- · On board and remote dewarpping. Onboard camera based, remote VMS based via AV Costar dewarp library
- · Multiple On-Board Dewarping View Modes
- NDAA and TAA Compliant

ConteralP® Fisheye Megapixel Camera

Camera Imaging Specifications

Model		AV12CFE-250	
Image Sensor		12MP CMOS Progressive Sensor	
Optical Format		1/1.7"	
Minimum	Color (Day Mode)	0.3 Lux	
Illumination	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	Fisheye Lens	1.97mm, F2.3, H-FOV 180°, V-FOV 180°	

Programm	mability		
Optics		Fisheye Lens	
Low-Light Performance		NightView™ technology	
		IR Illuminators	
Programmat Shutter Spec		Auto/Manual, shutter time: 1 ~ 1/100000s	
Motion Dete	ction	Up to 5 Areas	
Privacy Mas	king	Up to 5 Areas	
Backlight Co	mpensation	Auto	
White Balance	ce Mode	Auto/manual	
Gain Control	l	Auto	
Image Rotat	ion	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	Ceiling Perspective Fisheye Overview: 2992x2992, 2048x2048, 1280x1280, 960x960 PTZ: 2048x2048, 1920x1080, 1280x1280, 960x960 Quad View: 2560x1920, 2560x1440, 2048x2048, 2048x1536, 1920x1080, 960x960 Panorama: 2560x720, 2048x512 Double Panorama: 2560x1920, 2560x1440 Panorama PTZ: 2304x864, 1920x720, 1280x480 Double Panorama PTZ: 2048x1536, 1024x768	
		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	

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 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)	

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

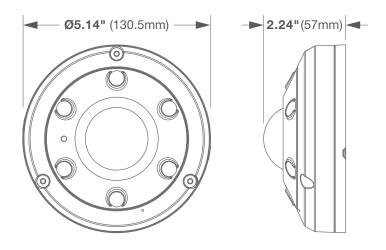
Audio Electrical

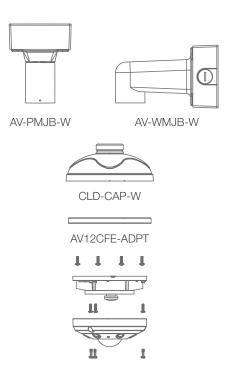
Streaming	Two-way
Compression	G.711 PCM 8 kHz/16 bits (A-Law/µ-Law)
Input/Output	Line Input* / Line Output

Mechanical

Casing	Die-cast aluminum chassis with polycarbonate dome bubble		
Mounting Options	Ceiling, Wall		
Dimensions	Unit	Ø5.14" (130.5mm) x 2.24" H (57mm)	
(See Dimensions)	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

ConteralP 2nd Gen Fisheye Mount Adapter (AV Costar White)

Corner Mount Adapter (AV Costar White)

Pole Mount Adapter (AV Costar White)

Electrical Box Adapter Plate (AV Costar White)

Pendant Mount Bracket with Standard Junction Box (AV Costar White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)

Wall Mount Bracket with Standard Junction Box

(AV Costar White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)

Mounting Cap for ConteralP Outdoor Dome (AV Costar White)

ConteralP Outdoor Dome Round Junction Box (AV Costar White)



Configurations



Surface mount dome

Create Your Model

(Example: AV12CFE-250)

Megapixel Resolution Contera

Body Type

Model Numbers

Accessories

AV12CFE-ADPT

AV-CRMA-W

AV-EBAPR

AV-PMA-W

AV-PMJB-W

AV-WM.JR-W

CLD-CAP-W*

CLD-JBA-W*

12MP

AV12CFE-250



* Requires AV12CFE-ADPT

