

# ConteralP® Fisheye Megapixel Camera

12 Megapixel (MP) H.265/H.264 All-in-One 360° Panoramic True Day/Night Outdoor Dome IP Camera with SNAPstream+™ (Smart Noise Adaptation and Processing), WDR (Wide Dynamic Range), NightView™, IR LEDs, and Integrated Audio

H.265



The ConteralP® Fisheye megapixel camera features 12-megapixel (MP) resolution for 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. The ConteralP Fisheye combines a day/night mechanical IR cut filter with an integrated lens for excellent, optimal image quality.

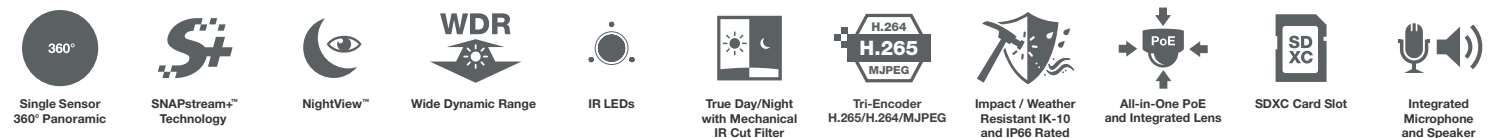
Regardless of time-of-day, this camera is ideal for applications with challenging lighting conditions. The series combines a day/night mechanical IR cut filter for the highest image quality at any time of day. For clear color images in low-light, NightView™ offers strong low-light sensitivity for capturing details in extremely poor-lit scenes, which is further enhanced by integrated LED illumination.

Arecont Vision® 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 256GB 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 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
- SNAPstream+™ Capability to Reduce Bandwidth without Impacting Image Quality
- 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
- Integrated Microphone and Speaker
- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, Multicasting, Forensic Zooming, and Scaling
- Multiple On-Board Dewarping View Modes
- On-Screen Display (OSD)
- Defog Technology
- 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 PoE Solution
- Integrated IR Illumination with a Range of 33ft (10m) for Scenes with Low or No Ambient Light
- microSDXC Card Slot for Onboard Storage
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Built-in Dewarping When Used with ConteraVMS

Camera Imaging Specifications

<b>Model</b>		<b>AV12CPD-236</b>	
<b>Image Sensor</b>		12MP CMOS Progressive Sensor	
<b>Optical Format</b>		1/1.7"	
<b>Minimum Illumination</b>	Color (Day Mode)	0.05 Lux	
	B/W (Night Mode)	0.005 Lux, IR sensitive	
<b>Full FOV Resolution</b>		4000 H x 3000 V (2720 H x 2720 V effective)	
<b>Scaling</b> (See Scaling Resolutions Below)		Yes	
<b>IR Illumination</b>		Yes	
<b>Dynamic Range</b>		70.7dB	
<b>Frame Rates*</b>	Single Stream	Up to 15fps (12MP) / 25fps (6MP)	
	Fisheye Mode	12MP Mode	Up to 15fps (12MP) + 15fps (3MP) + 15fps (720x576)
		9MP Mode	Up to 15fps (9MP) + 15fps (4MP) + 15fps (720x576)
		6MP Mode	Up to 25fps (6MP) + 25fps (4MP) + 25fps (720x576)
	4PTZ Mode	12MP Mode	Up to 15fps (3MP) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P)
		9MP Mode	Up to 15fps (4MP) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P)
		6MP Mode	Up to 25fps (4MP) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P) + 15fps (1080P)
	Panorama Mode	12MP Mode	Up to 15fps (12MP) + 15fps (3MP)
9MP Mode		Up to 15fps (6MP) + 15fps (4MP)	
6MP Mode		Up to 25fps (6MP) + 25fps (4MP)	
<b>Lens</b>	Fisheye Lens	1.8mm, F2.4, H-FOV 176.8°	

Programmability

<b>Optics</b>	Fisheye Lens
<b>Low-Light Performance</b>	NightView™ technology
	IR Illuminators
<b>Programmable Shutter Speed</b>	Auto/Manual, shutter time: 1 ~ 1/100000s
<b>Motion Detection</b>	Up to 4 Areas
<b>Privacy Masking</b>	Up to 8 Areas
<b>Backlight Compensation</b>	Auto
<b>White Balance Mode</b>	Auto/manual
<b>Gain Control</b>	Auto
<b>Flicker Control*</b>	50/60Hz
<b>Image Rotation</b>	180°/ Flip Vertical/ Flip Horizontal
<b>Scaling</b>	4000x3000, 3000x3000, 3000x2000(Panorama), 2560x2560, 2000x2000, 3000x1500(Panorama),2000x1500, 720x576, 320x288
<b>Wide Dynamic Range</b>	70.7dB
<b>Efficiency</b>	SNAPstream+™ (Smart Noise Adaptation and Processing)
	Bit rate control
<b>Defog</b>	Supported
<b>Miscellaneous</b>	Programmable brightness, contrast, sharpness, saturation, red/blue offset
	Supports 10 display modes
<b>Password</b>	32-digit character password
<b>On-Screen Display (OSD)</b>	Custom/ Date/ Time/ Serial Port/ ScrollOSD/ Picture Overlay/ Network Port
<b>Basic Video Analytics</b>	Audio Detection
	Motion Detection
	Camera Tamper
<b>Display/Dewarp Modes</b>	Fisheye, 4PTZ, Panorama

Data Transmission

<b>Compression Type</b>	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
<b>Bit Rate Control</b>	128~16384 Kbps
<b>Smart Codec</b>	Smart GOP/Smart ROI
<b>Transmission Protocols</b>	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS
	10/100Base-TX Auto-adaptive Ethernet network interface, RJ45
<b>Multi-Streaming</b>	2 x H.265/H.264 stream, 1 x M-JPEG stream
<b>Users</b>	Live viewing/Administrator for up to 31 clients

Event Management

<b>Event Trigger</b>	Motion Detection, Tampering Detection, Alarm In, Audio Detection
<b>Notifications</b>	Alarm Output, Recording, FTP, Trigger E-mail

Compliance

<b>Industry Standard</b>	ONVIF Profile S, G, T conformant
<b>Listings</b>	UL (CB) UL60950-1, E489591
<b>FCC Compliance</b>	47 CFR 15 Class A
<b>Environmental</b>	RoHS, WEEE
<b>Markings</b>	CE: EN55032 Class A, EN55024, EN61000-3-2, EN61000-3-3

Environmental

<b>Operating Temperature</b>	-35°C (-31°F) to +60°C (140°F)
<b>Humidity</b>	10% to 90% (non-condensing)
<b>Storage Temperature</b>	-40°C (-40°F) to +60°C (140°F)

## General Electrical

<b>Alarm Input/Output</b>	2x input (wet contact)/1x output (wet contact)
<b>Power Over Ethernet</b>	PoE IEEE 802.3af, Class 3 Total PoE solution (no external power requirement)
<b>Auxiliary Power</b>	12V DC
<b>Power Consumption</b>	9.6W PoE max
<b>Serial Interface</b>	1 channel RS485
<b>Analog Video Output</b>	1 BNC, impedance 75Ω; amplitude 1V [p-p]

## IR Illuminator

<b>LEDs</b>	3pcs, Smart IR
<b>Projection Distance</b>	33ft (10m) max

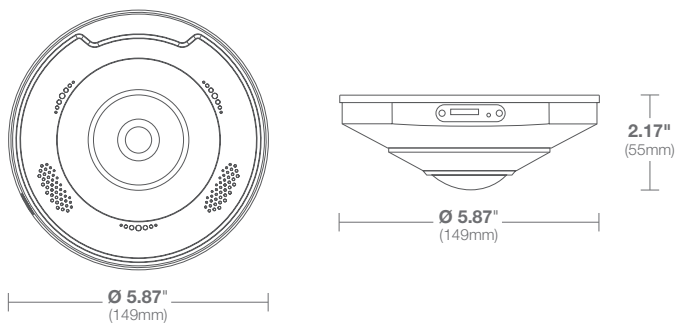
## Audio Electrical

<b>Streaming</b>	Two-way
<b>Compression</b>	G.711 PCM 8 kHz
<b>Input/Output</b>	Line In / Line Output / Built-in Mic / Built-in Speaker

## Mechanical

<b>Casing</b>	Die-cast aluminum chassis with 1.7" polycarbonate dome bubble	
<b>Mounting Options</b>	Ceiling, Wall, Desktop	
<b>Dimensions</b> <i>(See Dimensions)</i>	<b>Unit</b>	Ø 5.87" (149mm) x 2.17" H (55mm)
	<b>Packaged</b>	6.9" H (170mm) x 6.9" W (170mm) x 4.1" L (105mm)
<b>Weight</b>	<b>Unit</b>	1.1lbs (0.5kg)
	<b>Packaged</b>	3.6 lbs (1.65kg)
<b>On Board Storage</b>	MicroSDXC slot up to 256GB (card not included)	
<b>Body Color</b>	White	

## Dimensions



See Next Page for Ordering Information



Model Numbers

<b>12MP</b>	AV12CPD-236	<b>WDR</b>
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Accessories

<b>AV-CRMA-W</b>	Corner Mount Adapter (Arecont Vision® White)
<b>AV-PMA-W</b>	Pole Mount Adapter (Arecont Vision® White)
<b>AV-PMJB-W</b>	Pendant Mount Bracket with Standard Junction Box (Arecont Vision® White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)
<b>AV-WMJB-W</b>	Wall Mount Bracket with Standard Junction Box (Arecont Vision® White) (Fits Cap 1.5" NPT, Box Fits 3/4" NPT)
<b>CF-CAP-W</b>	Mounting Cap for ConteraIP® Fisheye Dome (White)

Configurations



Surface mount dome

Create Your Model (Example: AV12CPD-236)

Megapixel Resolution      Contera Product Line      Body Type

