

# AV12CFE-250

## 12MP Fish Eye



12MP Resolution  
Fisheye Lens 1.97mm  
Day and night (ICR)  
True wide dynamic range (WDR)  
IK10 / IP67

IR LED (15m / 50 ft (6ea))  
PoE (IEEE 802.3af Class 3)  
Two-way audio  
Alarm in / out  
Supports ONVIF

Easy 3-axis camera adjustment  
Supports ONVIF  
NDAA Compliant

### SPECIFICATIONS

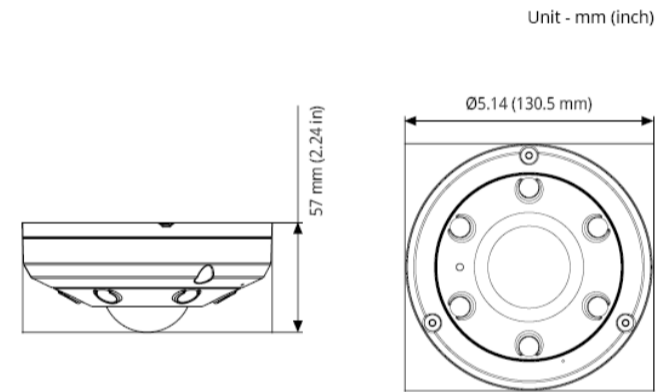
Camera Imaging Specifications	
Image Sensor (CMOS)	12MP CMOS Progressive Sensor
Optical Format	1/1.7"
Minimum Illumination	(Color (Day Mode)) 0.3 Lux (B/W (Night Mode)) 0.09 Lux, IR sensitive
Full FOV Resolution	4000 H x 3000 V 12MP (2992 H x 2992 V 9MP effective)
Scaling	Yes
IR Illumination	Yes
Dynamic 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°
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) (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 Digita
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
Network Protocols	SNMP, HTTP, HTTPS, IPv6, IPv4, SSL, TCP/IP, UPnP, UDP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, FTP, 802.1x, QoS, DDNS, Zero Configure
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	



### PRODUCT IMAGE



### DIMENSIONS



Unit - mm (inch)

<b>Streaming</b>	Two-way
<b>Compression</b>	G.711 PCM 8 kHz/16 bits (A-Law/ $\mu$ -Law)
<b>Input/Output</b>	Line Input / Line Output
<b>Mechanical</b>	
<b>Casing</b>	Die-cast aluminum chassis with polycarbonate dome bubble
<b>Mounting Options</b>	Ceiling, Wall
<b>Dimensions</b>	(Unit) $\varnothing$ 5.14" (130.5mm) x 2.24" H (57mm) (Packaged) 5.63" H (143mm) x 6.14" W (156mm) x 6.14" L (156mm)
<b>Weight</b>	(Unit) 1.45lbs (0.657kg) (Packaged) 1.92lbs (0.87kg)
<b>On Board Storage</b>	MicroSDXC slot up to 1TB (card not included)
<b>Body Color</b>	AV Costar White (Pantone® Cool Gray 1C)

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