ICEL-F12F-IRW1

12MP Panoramic Network IR Fisheye Camera



- 1/1.7” CMOS image sensor
- H.265/H.264 triple-stream encoding
- 12M(4000x3000)@25fps, 8M(3280 × 2480)@25/30 fps
- Multiple dewarped Modes
- Day/Night(ICR), 3DNR, BLC, HLC, WDR
- Perimeter Protection, People Counting, Heat Map
- Max. IR LEDs length 33ft
- Built-in dual array Microphone and speaker, Micro SD memory, IP67, IK10, PoE+

Technical Specification

Camera

Image Sensor	1/1.7" CMOS
Effective Pixels	4000 (H) × 3000 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Minimum Illumination	0.01 lux@F2.0 ((Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
IR Distance	Distance up to 32.8 ft (10 m)
IR On/Off Control	Auto / Manual / Off
IR LEDs	3

Lens

Lens Type		Fixed			
Mount Type		M12			
Focal Length		1.85mm			
Max. Aperture		F2.0			
Angle of View		H: 185°; V: 180°			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Distance		1.31 ft (0.4 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	1.85 mm	131 ft	52 ft	26 ft	13 ft

Video

Compression	Smart H.265; Smart H.264; H.265; H.264; MJPEG (sub stream only)
Streaming Capability	3 Streams
Resolution	12M (4000 × 3000), 8MP (3280 × 2480), 6MP (2880 × 2160), 3M (2048 × 1536), 1.3M (1280 × 960), D1 (704 × 576/704 × 480), CIF (352 × 288/352 × 240)
Dewarp Modes:	1O (4000 × 3000), 1P (4096 × 1024), 2P (2432 × 2432), 1R (1216 × 1216), 2R (2432 × 2432), 4R (2432 × 2432), 1O+3R (2432 × 2432)
Frame Rate	Main stream: 4000 × 3000 @ (1 fps- 25 fps) Sub stream: 704 × 576 @ (1 fps- 30 fps) Third stream: 1280 × 960 @ (1 fps- 17 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 8 kbps–16384 kbps H.265: 3 kbps–16384 kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Mode	Off / BLC / HLC / WDR (120dB)
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto / Manual
Noise Reduction	3D NR
Motion Detection	Off / On (1 Zone, Rectangle)
Region of Interest	Off / On (4 Area, Rectangle)
Privacy Masking	Off / On (4 Area, Rectangle)
Defog	Supported

Intelligence

Video Content Analytics	Line Crossing (Tripwire); Intrusion
Advance Intelligence	Perimeter protection; iMD (Human & Vehicle); Heat Map; People Counting

Audio

Compression	PCM, G.711A, G.711Mu, G.726, G.723
Two-Way Talk	Supported

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP , RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x
Interoperability	ONVIF(Profile S/Profile G/Profile T), API, P2P
Max. User Access	20
Edge Storage	FTP; SFTP ; Micro SD card (support max. 256 GB), NAS
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	ICView Core
Smart Phone	iOS, Android

Interface

Audio Interface	Dual Built-in Microphones; Built-in Speaker; Audio In/Out (RCA ports)
Alarm	1 x Input (5mA 3V–5V DC) 1 x Output (1,000mA 30V DC/500mA 50V DC)

Certifications

Certifications	FCC Part 15, Subpart B

Technical Specification

Construction

Casing	Metal
Dimensions	Ø5.91" × 2.35" (Ø150.0 mm × 59.8.0 mm)
Net Weight	1.74 lb (0.79 kg)
Gross Weight	2.67 lb (1.21 kg)

Electrical

Power Supply	12 VDC / PoE+ (802.3at)
Power Consumption	< 13.9W

Environmental

Operating Conditions	-40°F to +140°F (-40°C to +60°C)/less than 95% RH
Storage Conditions	-22°F to +158°F (-30°C to +70°C)
Ingress Protection	IP67
Vandal Resistance	IK10

Dimensions (mm/in)

