IPEL-M80F-IRW2

4x2MP Multi-Lens Panoramic Network IR Dome Camera





System Overview

IC Realtime's IPEL-M80F-IRW2 features four 2MP I-Sniper sensors working in unison, creating a panoramic, 180° overview, allowing the camera to replace multiple single sensor cameras at a lower overall cost. The unique 4 lens camera provides added flexibility for capturing wide area surveillance. Each sensor is the latest I-Sniper gen2 chipset which provides vibrant color at the lowest levels of illumination.

Beyond this, the camera also supports the line of Advanced Intelligence notifications, including Tripwire, Intrusion as well as Crowd and Vehicle density. Future proof as well, this camera supports 3 video streams in addition to H.264 and H.265 compression capabilities. Ideal applications for this camera include parking lots, schools, resorts and hotels.

Functions

Smart H.265+

Deliver high quality video without straining the network, Smart

H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

Panoramic Splicing

Make no mistake - this is not just 4 side-by-side camera views - this is a single image 180° panorama. IC Realtime's Panoramic Splicing technology applies unique "splice & blend" algorithms to overlapped areas to create a complete, single image rendition. After splicing, the field of view of four-sensor camera can be set to 180° to maintain a constant blended view.

- Four 1/2.8" 2MP CMOS, low illuminance, high image definition
- H.265/H.264 triple-stream encoding
- Max 30fps@ 8MP (4096x1800)
- Supports 180-degree panoramic view
- DWDR, 3DNR, AWB, AGC, BLC
- IVS Support
- Starlight, Max IR LEDs Length 98ft
- 256GB Micro SD memory, IP67, IK10, PoE

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 98ft (30m).

Protection (IP67, IK10, wide voltage)

The camera's outstanding reliability, unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 rating, making it suitable for indoor or outdoor environments. The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 11.02 lbs (5 kg) of force dropped from a height of 15.75 in (40 cm). It also features $\pm 25\%$ input voltage tolerance, allowing it to operate under unstable power supply conditions. Its 6KV lightning rating provides protection from the effects of a lightning strike.

Starlight Technology

Featured with Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.



Technical Specification

Camera

Camera					
Image Sensor	Four 1/2.8" 2	Megapixel prog	ressive scan CN	MOS	
Effective Pixels	4096(H)×1800(V)				
RAM/ROM	2GB/4GB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s				
Minimum Illumination	0.005 Lux@F1.6 (Color,30IRE) 0.0005 Lux@F1.6 (B/W,30IRE) 0 Lux (Illuminator on)				
S/N Ratio	>56dB				
IR Distance	Distance up to 98ft (30m)				
IR On/Off Control	Auto / Manual				
IR LEDs	6				
Lens					
Lens Type	Fixed				
Mount Type	M12				
Focal Length	2.8mm				
Max. Aperture	F1.6				
Angle of View	Horizontal :180°; Vertical 90°				
Iris Type	Fixed				
Close Focus Distance	2.0 ft (0.6 m)				
DORI Distance	Detect	Observe	Recognize	Identify	
	126ft	50ft	25ft	13ft	
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range	Pan:0°~355°;	; Tilt:0°~75°; Ro	otation:±20°		
Intelligence					
IVS	Tripwire, Intrusion				
Advanced Intelligent Functions	(BETA) Vehicle Density, Crowd map				
Video					
Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				
Streaming Capability	3 Streams				
Resolution	4096 × 1800; 3840 × 1680; 2880 × 1264; 1024 × 452; 1920 × 832; 1280 × 560				
	Main Stream: 4096x1800 (1~25/30fps)				
Frame Rate	Sub Stream: 1	Sub Stream: 1024X452 (1 ~ 25/30fps)			

Third stream: 1920×832 (1–25/30 fps)

Auto/ Natural/ Street Lamp/ Outdoor/Manual

H.264: 9 kbps–17664 kbps H.265: 9 kbps–17664 kbps

Off / On (4 Zone, Rectangle) Off / On (4 Zone)

Auto(ICR) / Color / B/W

BLC / HLC / DWDR

Auto / Manual

3D DNR

CBR/VBR

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Vandal Resistance IK10 Construction Casing Metal + Plastic Dimensions 6.7" × 8.3" (169.5 mm × 212 mm) Net Weight 8.0 lb (3.65 kg)	Storage Conditions	-40° F ~ +140° F (-40° C ~ +60° C)			
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Casing Metal + Plastic Dimensions 6.7" × 8.3" (169.5 mm × 212 mm) Net Weight 8.0 lb (3.65 kg)	Vandal Resistance	IK10			
Dimensions 6.7" × 8.3" (169.5 mm × 212 mm) Net Weight 8.0 lb (3.65 kg)	Construction				
Net Weight 8.0 lb (3.65 kg)	Casing	Metal + Plastic			
	Dimensions	6.7" × 8.3" (169.5 mm × 212 mm)			
Gross Weight 9.6 lb (4.37 kg)	Net Weight	8.0 lb (3.65 kg)			
	Gross Weight	9.6 lb (4.37 kg)			

Bit Rate Control

Bit Rate

Day/Night

BLC Mode

White Balance

Noise Reduction

Region of Interest

Gain Control





