IPMX-D20F-IRB2

2MP Starlight Dome Network Camera





System Overview

The IPMX-D20F-IRB2 is a 2MP dome camera featuring our latest generation of 1/2.8" low illuminance, high image definition CMOS sensors and H.265/H.264 triple-stream encoding. It adopts our vandal proof dome style housing with a 2.8mm fixed lens. This camera also has enhanced night vision due to both Smart IR and Starlight functions with an IR illumination up to ~164'.

Additional features include IVS functions including Tripwire and Intrusion with Perimeter Protection as well as Intelligent Motion Detect (iMD). The camera is encased in a black, IK10 and IP67 rated housing, making it a great choice for outdoor installations.

Made in South Korea and conforms to the Trade Agreements Act (TAA).

Functions

Smart(H.265+ & H.264+)

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

Intelligent Video Analysis (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 Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 dual-stream encoding
- Outputs 2MP (1920 × 1080)@30 fps
- Starlight Support, Max IR distance: 164 ft
- Intelligent Motion Detect, Perimeter Protection, IVS support
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE, IP67, IK10
- TAA Compliant, Made in South Korea

iMD (Intelligent Motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

Starlight

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

Perimeter Protection

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

Technical Specification

Camera

Image Sensor		1/2.8" 2 Megapixel progressive CMOS			
Effective Pixels		1920 (H) × 1080 (V)			
RAM/ROM		256 /128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Minimum Illumination		0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)			
IR Distance		164.0 ft (50 m)			
IR On/Off Control		Auto / Manual			
IR LEDs		3			
Lens					
Lens Type		Fixed focal			
Mount Type		M12			
Focal Length		2.8mm			
		F1.6			
Max. Aperture		Horizontal:10	6°: Vertical: 57°:		
Angle of View		Horizontal:106°; Vertical: 57°;			
Iris Type		Fixed			
Close Focus Distance		2.0 ft (0.6 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	126 ft	50 ft	25 ft	12 ft
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Ran		Pan:0° ~355° ;	;Tilt:0° ~65° ;Ro	tation:0° ~355°	
Intelligence					
IVS		Tripwire, Intrusion, Audio abnormality detection			
		Tripwire, Intru	sion, Audio abn	ormality detect	ion
Perimeter Protection				·	
Perimeter Protection	tect	Tripwire, Intru		id vehicle recog	
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Motion Detection	Off / On (4 Zone, Rectangle)			
Region of Interest	Off / On (4 Zone)			
Smart IR	Support			
Starlight	Support			
Flip	0%90%180%270°			
Mirror	Off / On			
Privacy Masking	Off / On (4 Area, Rectangle)			
Audio				
Compression	G.711a; G.711Mu; G726			
Network				
Ethernet	RJ-45 (10/100Base-T)			
Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;N TP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP			
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone			
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade			
Scene Self-adaptation (SSA)	Supported			
Max. User Access	20 (Total bandwidth: 64 M)			
Edge Storage	NAS, FTP, SFTP, Local PC for instant recording Micro SD card 256GB			
Web Viewer	IE, Chrome, Firefox, Safari			
Management Software	SmartICRSS, DSS			
Smart Phone	IOS, Android			
Certifications				
Certifications	FCC Part 15, Subpart B			
Interface				
Video Interface	N/A			
Audio Interface	1/1 channel In/Out (RCA)			
RS485	N/A			
Alarm	1 channel In: 5mA 3V–5V DC 1 channel Out: 300mA 12VDC			
Electrical				
Power Supply	DC12V, PoE (802.3af)			
Power Consumption	<6.9W			
Environmental				
Operating Conditions	-40°F to +140°F (-40°C to +60°C)/less than \leq 95%			
Storage Conditions	-40°F to +140°F (-40°C to +60°C)			
Ingress Protection	IP67			
Vandal Resistance	IK10			
Construction				
Casing	Metal			
Dimensions	3.2" × 4.3" (81 mm × 109.9 mm)			
Net Weight	0.8 lb (378 g)			
Gross Weight	1.2 lb (523 g)			

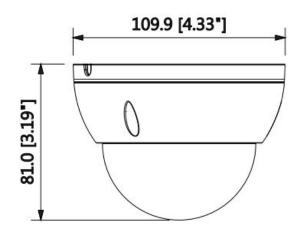


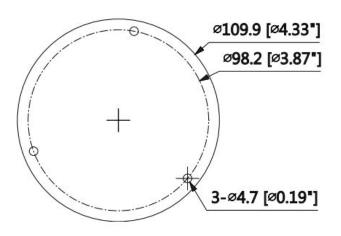
Accessories

Dimensions (mm/in)

MNT-IPMINIDOME-WALL-B







MNT-JUNCTION-BOX-6-B

