

# OPTIC-5s-DM5-IO-W

5MP 2.7~13.5mm 40m Starlight IR H.265 Dome



- 5MP Resolution with 1/2.7" CMOS image sensor
- 2688×1520 at 25/30 fps or 5MP (2592×1944) at 20 fps
- 2.7~13.5mm Motorised F1.5 Lens
- H.265+ Smart Codec Support
- Starlight with Built-in IR LED with a max IR distance of 40 m
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking,
- Intelligent Video Analysis (Intrusion & Tripwire)
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- 256GB(Max) Micro SD card slot
- 12vDC / PoE power support
- IP67 protection

## System Overview

The OPTIC-5s-DM5-IO-W is a 5MP dome camera featuring our latest generation of 1/2.7" CMOS sensors. It adopts a vandal proof dome housing and includes Starlight support with IR illumination up to 40m. The camera also features a motorised, 2.7mm-13.5mm lens. The zoom level is controllable directly from the camera interface, enabling you to obtain the perfect shot. This makes the camera well suited for exterior applications on commercial as well as residential installations.



## Starlight

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing colour 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.

## Intelligent Video Analysis (IVS)

With built-in intelligent video analytics, the camera can detect and analyse moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviours 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.

## Environmental

With a temperature range of -40°C to +60°C (-40°F to +140°F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

## Functions

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

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

### Wide dynamic range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.



# IC Realtime OPTIC-5s-DM5-IO-W

## Technical Specification

### Camera

Image Sensor	1/2.7" 5Megapixel progressive CMOS
Effective Pixels	2592 (H) × 1944 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.008 Lux@F1.5
IR Distance	40 m (131.2 ft)
IR On/Off Control	Auto/Manual
IR LEDs Number	2
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

### Lens

Lens Type	Motorized vari-focal				
Mount Type	ϕ 14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Field of View	Pan: 100°–26° Tilt: 72°–20° Diagonal: 133°–33°				
Iris Type	Fixed aperture				
Close Focus Distance	0.8m–0.8m (2.62 ft–2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)
	T	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)

### Smart Event

General IVS Analytics	Tripwire; intrusion
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### Video

Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main stream: 2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)
Stream Capability	2 streams
Resolution	2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296); 1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704× 576/704×480); VGA(640×480); CIF(352×288/352×240)

Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 12 Kbps– 8192 Kbps Auto(ICR)/Color/B/W
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/ regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(Rol)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688×1520 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

### Network

Network	RJ-45 (10/100 Base-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; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

### Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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### Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.3W

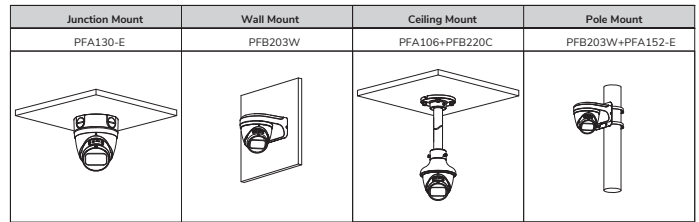
### Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67

# IC Realtime OPTIC-5s-DM5-IO-W

## Structure

Casing	Metal
Dimensions	108.3 mm × $\phi$ 122 mm (4.26" × $\phi$ 1.80")
Net Weight	0.69 kg (1.6 lb)
Gross Weight	0.88 kg (2.0 lb)



## Accessories

### Optional:



PFA130-E  
Junction Box



PFB203W  
Wall Mount



PFA106  
Mount Adapter



PFB220C  
Ceiling Mount



PFA152-E  
Pole Mount



PFM321D  
DC12V1A Power  
Adapter



LR1002-1ET/1EC  
Single-port Long  
Reach Ethernet  
over Coax  
Extender

## Dimensions (mm[inch])

