

USD12MP-IP-4.1-16.4-IR50

12MP IR Dome Network Camera Motorized Lens STARVIS™

System Overview

This 12MP IP camera is part of our Ultra Series line up. First the obvious advantage is 20fps@12M (4000x3000), 25/30fps@4K(8M) (3840x2160) and motorized zoom lens 4.1mm~16.4mm. Also, with Advanced IVS, Extreme Temperature rating, IP67, and IK10 these features really make this an Ultra series IP camera.

Features

- 1/ 1.7" 12 Megapixel progressive STARVIS CMOS
- H.265+/H.265/H.264+/H.264 triple-stream encoding
- 20fps@12M (4000x3000) 25/30fps@4K(8M) (3840x2160)
- Day/Night (ICR), Super WDR, DWDR, 3DNR, AWB, AGC, BLC
- 4.1mm~16.4mm motorized lens
- 1/1 Alarm in/out, 1/1 audio in/out
- Max IR LEDs length up to 164' (50m)
- Micro SD memory, IP67, IK10, PoE+



Functions

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

With Smart IR Technology, 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 50m (164ft).

Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10). Extreme temperature range -40 °C to +60 °C (-40 °F to +140 °F).

Smart Scene Adaptive allows the camera to automatically evaluate the change in scene, in particular strong lights. In a strong backlight environment, it will automatically regulate exposure parameters to get better image quality.

With built-in intelligent video analytics, the camera can 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 pre-determined line has been crossed. Ideal for business intelligence and advanced analytics like Heat Map and Face Detection .

Specifications

Camera

Image Sensor	1/ 1.7" 12Megapixel progressive CMOS
Effective Pixels	4000(H) x 3000(V)
RAM/ROM	1024MB / 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.01Lux/F1.53 (Color,1/3s,30IRE) 0.1Lux/F1.53 (Color,1/30s,30IRE) 0Lux/F1.53 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 164' (50m)
IR On/Off Control	Auto/Manual
IR LEDs	3

Lens

Lens Type	Motorized/Auto Iris (HALL)
Mount Type	Board-in
Focal Length	4.1mm ~ 16.4mm motorized
Max. Aperture	F1.53
Angle of View	H:105°~35°, V:77° ~ 26°
Optical Zoom	4x
Focus Control	Motorized
Close Focus Distance	3.28' (1m)
DORI	Lens Detect Observe Recognize Identify
Distance (*estimate)	W 377' 151' 75' 36' T 909' 364' 180' 92'

Pan Tilt Rotation

Pan/Tilt/Rotation Range	Pan:0° ~355°; Tilt:0° ~65°; Rotation: 0° ~ 355°
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Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map
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Video

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	12M(4000x3000)/ 4K(3840x2160)/6M(3072x2048)/ 5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480) / VGA(640x480)/ CIF(352x288/342x240)
Frame Rate	Main Stream: 12M (1~20fps)4K(8M)(1~25/30fps) Sub Stream: D1 (1~25/30fps) Third Stream: 1080p (1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265: 14Kbps ~ 9984Kbps H.264: 24Kbps ~ 16384Kbps
Day/Night	Auto (ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR / SSA
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	Support
Smart IR	Support
Defog	Support

Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a/G.711Mu/AAC/G.726
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Network

Ethernet	RJ-45 (100/100Base-T)
Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP;Bonjour,802.1x;Multicast;IGMP;IGMP;SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Web Viewer	IE,Firefox, Safari
Mgt. Software	Smart PSS, DSS, Easy4ip, P2P
Smart Phone	iOS, Android

Certifications

Certifications	CE, UL, FCC
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Drivers

Drivers/Profiles	Control 4
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Interface

Video Interface	1 Port (For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V,AC24V, PoE+ (802.3at) (Class 4)
Power Consumption	<18W

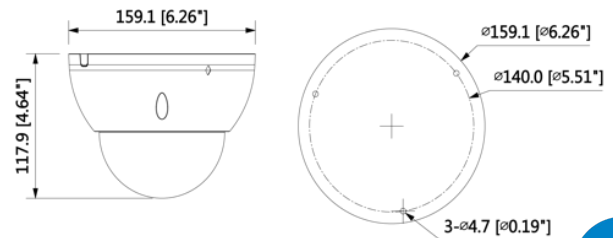
Environmental

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / < 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / <95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ 6.26" x 4.64" (159.1mm x 117.9mm)
Net Weight	2.12lb (0.96Kg)
Gross Weight	3.56lb (1.75Kg)

Dimensions



ZM051518 Design and specifications are subject to change without notice