IP-D24MVFC

4MP WDR IR Dome Network Camera

Features

- 1/3" 4 Megapixel progressive CMOS
- H.264+ & H.264 dual-stream encoding
- 20fps@4M(2688×1520) &25/30fps@2M(1920×1080)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Network monitoring:
  Web viewer, Snappy Universal CMS
- Micro SD card slot, up to 128GB
- 2.7~12mm varifocal lens
- Max IR LEDs Length 30m
- IP67, IK10,PoE

System Overview

The IR Megapixel Vari-focal Dome camera delivers 4MP resolution with a motorized 2.7mm – 12mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas ANR (Automatc Network Replenishment Technology)Video record in SD card in IP cameras when the network breaks down, and afer the network recovered, the video will be transferred to NVR and then recorded in it.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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 30m (98ft).

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust to IP67 standards, making it suitable for indoor or outdoor environments. With its IK10 rated impact resistant design, the camera provides maximum durability against vandals making it capable of withstanding the equivalent of 55 kg (120lbs) of force.

Supporting ±10% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

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Technical Specifications

Camera

Image Sensor	1/3" 4Megapixel progressive CMOS
Effective Pixels	2688(H) x1520(V)
RAM/ROM	256MB/16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto 1/3(4)~1/100000s
Minimum Illumination	0.1Lux/F1.4(Color), 0Lux/F1.4(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 30m(98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	2

Lens

Lens Type		Motorized			
Mount Type		Board-in			
Focal Length		2.7mm~12mm			
Max. Aperture		F1.4			
Angle of View		H:100°~35°, V:54°~20			
Focus Control		Motorized			
Close Focus Distance		0.3m			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	68m(223ft)	27m(89ft)	14m(49ft)	7m(23ft)
	T	193m(633ft)	77m(253ft)	39m(128ft)	19m(62ft)

PTZ

Pan/Tilt Range	Pan:00~355° ; Tilt: 0° ~75° ; Rotation: 0° ~355°

Video

Compression	H.264+
Streaming Capability	2 Streams
Resolution	4M(2688×1520)/3M(2048×1536) (2304×1296)/1080P(1920x1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate	4M(1 ~ 20fps)/2M (1 ~ 25/30fps)
	D1/CIF(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H264:24K ~ 8192Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization(EIS)	N/A
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	N/A

Network

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

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V PoE (802.3af)(Class 0)
Power Consumption	<9.75W

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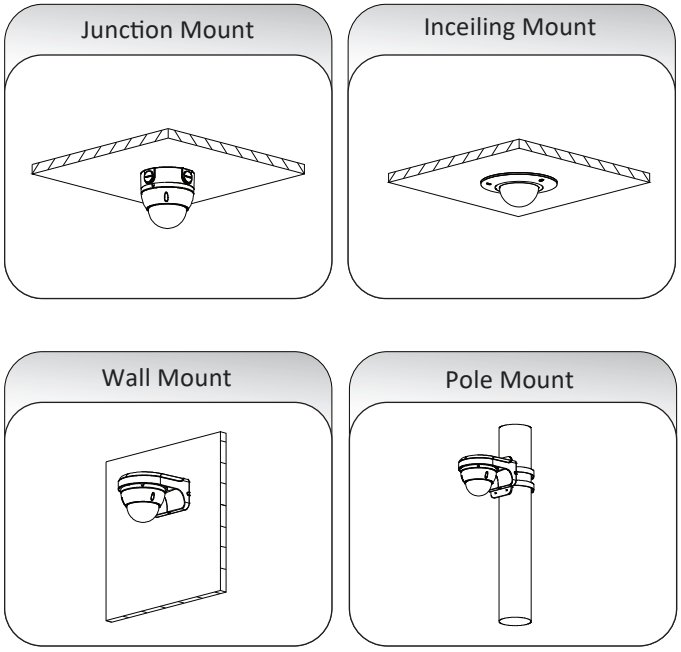
Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F)
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

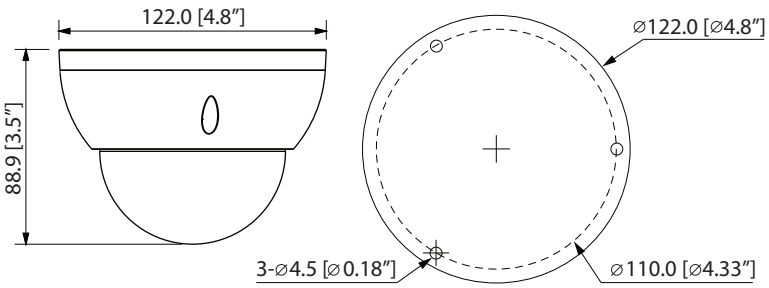
Casing	Metal
Dimensions	ϕ122mm×88.9mm(4.80"x3.50")
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)



Ordering Information

Type	Part Number	Description	
4MP camera	IP-D24MVFC	4MP WDR IR Dome Network Camera, PAL	
Accessories (optional)		Junction box	Wall mount
		Pole mount	In-celling Mount

Dimensions (mm/inch)



Accessories (optional)

Junction box | Wall mount | Pole mount | In-celling Mount

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