



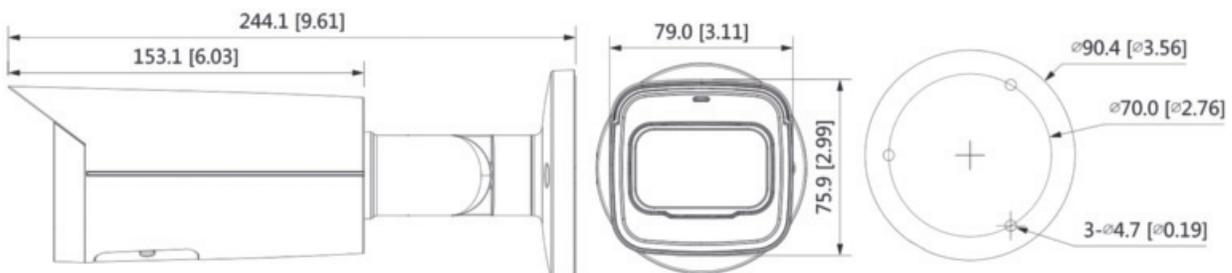
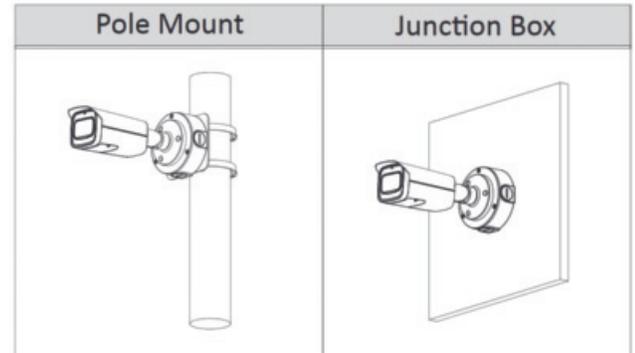
MPIX-20BIVF-AI

2MP IR Vari-focal Bullet Network Camera



Features:

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 60m/197ft
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, line crossing (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256GB Micro SD card
- 12V DC/POE power supply
- IP67, IK10(optional) protection
- Motion Detection



PRODUCT OVERVIEW

With advanced deep learning algorithm, WatchNET AI series network camera supports some intelligent functions, such as fenced area protection and smart motion detection. It adopts Sensefier solution, which makes a better image effect in low illuminance.

SYSTEM FUNCTIONS

Smart Motion Detection (SMD)

With intelligent algorithm, WatchNET Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

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

Adopting advanced algorithm of auto stream control according to the environment, WatchNET smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Cyber Security

WatchNET network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Sensefier

WatchNET Sensefier technology mainly applies to the environment of low illumination, and it can provide clear colourful video. Even in the environment of minimum illumination, the technology can guarantee the good image effect.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Fenced Area Protection:

With deep learning algorithm, WatchNET Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as line crossing, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Model	MPIX-20BIVF-AI
Camera	
Image Sensor	1/2.8"2Megapixel progressive CMOS
Effective Pixels	1920 (H) ×1080 (V)
ROM/RAM	128 MB / 256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.002 Lux@F1.5 (Color, 30IRE) 0.0002 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	60m (197ft)
Illum. On/Off Control	Auto/Manual
Illuminator Number	4 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°
Lens	
Lens Type	Motorized vari-focal
Mount Type	φ14
Focal Length	2.7 mm–13.5 mm
Max. Aperture	F1.5
Field of View	Horizontal: 108°–28° Vertical: 57° –16° Diagonal: 130° –33°
Iris Type	Fixed
Close Focus Distance	0.8 m (2.6 ft)
Professional, Intelligent	
Fenced Area Protection	Line crossing; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+ / Smart H.264+
Video Frame Rate	Main stream (1920 × 1080@1–25/30 fps) Sub stream (704 × 576@1–25 fps/704 × 480@1–30fps) Third stream (1280 × 720@1–25/30 fps)
Resolution	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: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC/HLC/WDR	Yes/Yes/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 Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920×1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 Areas

Alarm					
Alarm Event		No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity change; line crossing, intrusion; motion detection			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	44.1 m (144.7 ft)	17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)
	T	153.1 m (502.3 ft)	61.2 m (200.8 ft)	30.6 m (82.9 ft)	15.3 m (50.2 ft)
Network					
Ethernet		RJ-45 (10/100 Base-T)			
SDK and API		Yes			
Protocol		IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP			
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			
Interoperability		ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec			
Scene Self-adaptation		Yes			
User/Host		20 (Total bandwidth: 64 M)			
Storage		FTP; SFTP; Micro SD Card (support max. 256 G); WatchNET Cloud; NAS			
Browser		IE: IE8, IE9, IE11, Chrome, Firefox			
Management Software		HD-VMS & eVMS-PRO			
Smart Phone App		MVS-Lite , MVS-Pro & eVMS-PRO			
Mobile		IOS; Android			
Power					
Power Supply		12V DC/PoE (802.3af)			
Power Consumption		<9.4W			
General					
Operating Conditions		-30°C ~ +60°C (-22°F ~ +140°F)/less than 95%			
Storage Conditions		-40°C to +60°C (-40°F to +140°F)			
Ingress protection		IP67			
Construction					
Casing		Metal			
Dimensions		244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)			
Net Weight		820 g (1.8lb)			
Gross Weight		1090 g (2.4lb)			

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Rev. April 01, 2022

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