



**MPIX-80VDF-IR28AI**

### 8 MP IR Fixed-focal Dome Network Camera



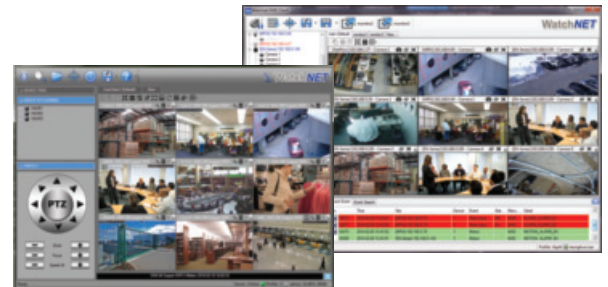
#### Features:



- 8 MP 1/1.8" CMOS image sensor, low illuminance, high image definition (high definition image)
- Output max. 8 MP (3840× 2160) @30 fps.
- Max. IR distance: 50m/164.0ft
- ROI, SMART H.264 +/-H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Supports max. 256 GB Micro SD card
- 12 VDC/PoE power supply
- ePoE, IP67, IK10 protection
- Motion detection

#### Intelligence:

- Fenced Area protection - Line Crossing; Intrusion
- Face Detection
- Face Attributes
- People Counting



FREE Multisite VMS Software  
Download it from [www.watchnetinc.com](http://www.watchnetinc.com)

#### Optional Brackets



BRACK-BB-48  
Back Box



BRACK-WM-48  
Wall Mount



BRACK-PM-06  
Pendant Mount

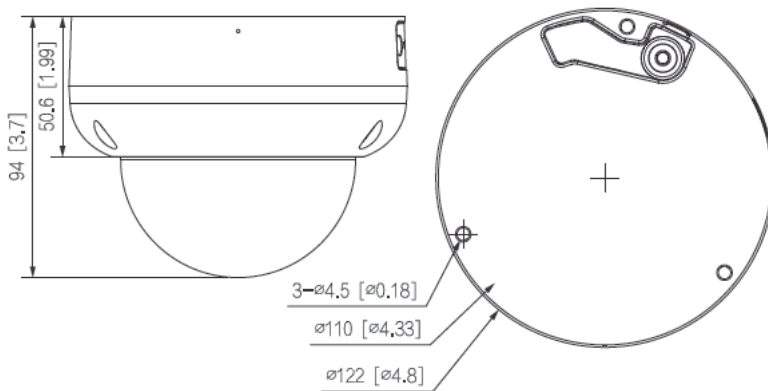


Model		MPIX-80VDF-IR28AI			
<b>Camera</b>					
Image Sensor	1/1.8" CMOS				
Max. Resolution	3840 (H) × 2160 (V)				
ROM/RAM	128MB / 1GB				
Scanning System	Progressive				
Min. Illumination	0.004 Lux@F1.4 (Color, 30IRE) 0.0004 Lux@F1.4 (B/W, 30IRE) 0 lux (Illuminator on)				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
S/N Ratio	>56dB				
Illumination Distance	50m (164.0ft)				
Illuminator On/Off Control	Auto; Manual				
Illuminator Number	2 (IR)				
Pan/Tilt/Rotation Range	Pan: 0°–355° / Tilt: 0°–80° / Rotation: 0°–355°				
<b>Lens</b>					
Lens Type	Fixed-focal				
Lens Mount	M16				
Focal Length	2.8 mm				
Max. Aperture	F1.4				
Field of View	Horizontal 111°; Vertical 59°; Diagonal 131°				
Iris Control	Fixed				
Close Focus Distance	1.8m (5.9ft)				
DORI Distance	Detect	Observe	Recognize	Identify	
	85.4m (280.2ft)	34.2m (112.2ft)	17.1m (56.1ft)	8.5m (27.9ft)	
<b>Smart Event</b>					
IVS	Abandoned object; missing object				
Heat Map	Yes				
<b>Professional, intelligent</b>					
Fenced Area Protection	Line crossing, intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.				
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.				
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				

Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+
Video Frame Rate	<b>Main stream:</b> 3840× 2160 (1 fps–25/30 fps) <b>Sub stream:</b> D1 (1 fps–25/30 fps) <b>Third stream:</b> 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 M (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–20480 kbps / H.265: 3 kbps–20480 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC / HLC	Yes / Yes
WDR	120dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
<b>Audio</b>	
Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
<b>Alarm</b>	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; line crossing; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management
<b>Network</b>	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network 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; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI, P2P
User/Host	20 (Total bandwidth: 80 MB)
Storage	FTP; SFTP; Micro SD card (support max. 256GB); NAS
Browser	IE 8 and later Chrome Firefox
Mobile Client	iOS; Android
<b>Certification</b>	
Certification	CE, FCC

Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5 VDC
Alarm Output	1 channel out: 300mA 12 VDC
Power	
Power Supply	12 VDC ( $\pm 30\%$ )/PoE (802.3af)/ePoE
Power Consumption	Basic power consumption: 3.6W (12V DC); 4.0W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED): 5.8W (12V DC); 6.9W (PoE)

Environment	
Operating Temperature	$-40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+140^{\circ}\text{F}$ ) / Less than 95% RH
Storage Temperature	$-40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+140^{\circ}\text{F}$ )
Protection	IP67, IK10
Structure	
Casing Material	Metal
Product Dimensions	94 mm $\times$ $\Phi$ 122 mm (3.7" $\times$ $\Phi$ 4.8")
Net Weight	712.9g (1.6lb)
Gross Weight	986g (2.2lb)



\* All product names, logos and brands are property of their respective owners. All company products and service names used on this box/website/brochure are for identification purposes only. Use of these names, logos and brands does not imply endorsement. 2022 WatchNET Inc. © All Rights Reserved. All product specifications are subject to change without notice.

**CANADA:**  
351 Ferrier Street, Unit 5  
Markham, ON L3R 5Z2  
Toll Free: 1-866-843-6865  
Tel: 416-410-6865

**USA:**  
171 Cooper Ave. Suite 110  
Tonawanda, NY 14150 USA  
Toll Free: 1-866-843-6865  
Local: 1-716-877-7277

**UAE:**  
PO Box 126312  
No 703, Oxford Towers  
Business Bay, Dubai, UAE  
Tel: +971 4 2767117

Nov.24, 2022

[info@watchnetinc.com](mailto:info@watchnetinc.com)  
[www.watchnetinc.com](http://www.watchnetinc.com)