



IWH-83PAX

8 MP Motorized Varifocal Bullet Network Camera, IP66.

High quality imaging with 8 MP resolution
Motorized varifocal lens for easy installation and monitoring
Excellent low-light performance
Efficient H.265+ compression technology
Clear imaging against strong back light due to 120 dB true WDR technology
Focus on human and vehicle targets classification based on deep learning
Audio and alarm interface available
Water and dust resistant (IP66) and vandal proof (IK10)

Camera

Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Colour: 0.003 Lux @(F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 ÷ 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Day & Night	IR cut filter
Power-off Memory	Yes
WDR	120 dB
3-Axis Adjustment	<i>Pan: 0° ÷ 355°; Tilt: 0° ÷ 90°; Rotate: 0° ÷ 360°</i>

Lens

Lens Type	Varifocal lens, motorized lens., 2.8-12 mm
Aperture	F1.4
FOV	<i>Horizontal field of view: 108°; Vertical field of view: 58°; Diagonal field of view: 127.4°</i>
Lens Mount	Ø14
Iris Type	Fixed

DORI

DORI	<i>Wide - D: 86 m, O: 34.1 m, R: 17.2 m, I: 8.6 m</i> <i>Tele - D: 214.0 m, O: 84.9 m, R: 42.8 m, I: 21.4 m</i>
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Illuminator

Supplement Light Type	IR
Smart Supplement Light	Yes
IR Range	Up to 60 m
IR Wavelength	850 nm

Video

Max. Resolution	3840 × 2160 50 Hz: 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Main Stream	60 Hz: 24 fps (3840 × 2160), 30 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) <i>*Third stream is supported under certain settings</i>
Video Compression	<i>Main stream: H.265/H.264/H.264+/H.265+</i> <i>Sub-stream: H.265/H.264/MJPEG</i> <i>Third stream: H.265/H.264</i> <i>*Third stream is supported under certain settings</i>
Video Bit Rate	32 kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main Stream supports
H.265+	Main Stream supports
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding

ROI (Region of Interest) 1 fixed region for main stream and sub-stream

Audio

Audio Type	Mono sound
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Bit Rate	64 kbps (G.711ulaw/G.711alaw)/16 kbps (G.722.1)/16 kbps (G.726)/32 to 192 kbps (MP2L2)/8 to 320 kbps (MP3)/16 to 64 kbps (AAC-LC)
Environment Noise Filtering	Yes
Sampling Rate (-S)	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz

Network

Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	CMS-MAZi, CTR-MAZi
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view : Chrome 57.0+, Firefox 52.0+, Edge 89+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

Image

Image Parameters Switch	Yes
Target Cropping	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D-DNR
SNR	≥ 52 dB

Interface

Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 kΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	1 alarm input, 1 alarm output (max. 24 Vdc/24 Vac, 1 A)
On-board Storage	Built-in micro SD slot, up to 512 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10/100 Mbps self-adaptive Ethernet port

Event

Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection

Deep Learning Function

Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection Supports human and vehicle targets classification

General

Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Operating and Storage Conditions	-30 °C ÷ +60 °C (-22 °F ÷ +140 °F), humidity 95% or less (non-condensing)
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Firmware Version	V5.5.113
Software Reset	Yes

Power Consumption and Current	12 Vdc, 1.08 A, max. 13 W
Power Supply	PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15 W
Power Interface	12 Vdc $\pm$ 25%; reverse polarity protection
Material	PoE: 802.3at, Class 4
Dimension	Two-core terminal block
Weight	Metal
Approval	Camera $\varnothing$ 144.1 $\times$ 345.7 mm ($\varnothing$ 5.7" $\times$ 13.6")
EMC	Package: 385 $\times$ 180 $\times$ 180 mm (15.2" $\times$ 7.5" $\times$ 7.1")
Safety	~1430 g (3.2 lb.)
Environment	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Protection	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950- 1:2005 + Am 1:2009 + Am 2:2013); CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
	IP66 (IEC 60529-2013), IK10 (IEC 62262: 2002)