



IVH-82PAX

8 MP Colour in the Dark (CID) Motorized Varifocal Turret Network Camera

High quality imaging with 8 MP resolution

Motorized varifocal lens for easy installation and monitoring

Excellent low-light performance with *Colour in the Dark* technology

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
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° ÷ 355°, Tilt: 0° ÷ 75°, Rotate: 0° ÷ 360°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Power-off Memory	Yes

Lens

Lens Type	Varifocal lens, motorized lens
Focal length	2.8 ÷ 12 mm
FOV	Horizontal FOV: 108° ÷ 46°; Vertical FOV: 58° ÷ 26°; Diagonal FOV: 127.4° ÷ 52°
Aperture	F1.4
Lens Mount	Ø 14
Iris Type	Fixed

DORI

DORI	Wide - D: 86.0 m; O: 34.1 m; R: 17.2 m; I: 8.6 m Tele - D: 214.0 m; O: 84.9 m; R: 42.8 m; I: 21.4 m
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Illuminator

IR Range	Up to 40 m
IR Wavelength	850 nm
Smart Supplement Light	Yes
Supplement Light Type	IR

Video

Max. Resolution	3840 × 2160
Main Stream	50 Hz: 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 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:</i> H.265/H.264/H.264+/H.265+ <i>Sub-stream:</i> H.265/H.264/MJPEG <i>Third stream:</i> H.265/H.264 <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
Region of Interest (ROI)	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 ÷ 192 kbps (MP2L2)/8 ÷ 320 kbps (MP3)/16 ÷ 64 kbps (AAC-LC)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	Yes
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 user levels: administrator, operator and user
Security	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	CTR-MAZi, CMS- 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	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D-DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥ 52 dB
Target Cropping	Yes
Interface	
Alarm	1 input, 1 output (max. 24 Vac/24 Vdc, 500 mA)
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
On-board Storage	Built-in micro SD slot, up to 512 GB
Reset Key	Yes

Ethernet Interface	1 RJ45 10 M/100 M 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
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes
Firmware Version	V5.5.112
Storage Conditions	-30 °C ÷ 60 °C (-22 °F ÷ 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C ÷ 60 °C (-22 °F ÷ 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 Vdc ± 25%, reverse polarity protection; PoE: 802.3af, Class 3
Power Consumption and Current	12 Vdc, 0.92 A, max. 11.04 W; PoE (802.3af, 36 ÷ 57 V), 0.35 ÷ 0.22 A, max. 12.5 W
Power Interface	Two-core terminal block
Material	Metal
Dimension	Camera: Ø 135.8 × 145.5 mm (Ø 5.4" × 5.8") Package: 170 × 170 × 205 mm (6.7" × 6.7" × 8.1")
Weight	Camera: ~1160 g (2.5 lb.) With Package: ~1530 g (3.4 lb.)
Approval	
EMC	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); KC (KN 32: 2015, KN 35: 2015)
Safety	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)
Environment	CE-ROHS (2011/65/EU); WEEE (2012/19/EU); REACH (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529-2013), IK10 (IEC 62262:2002)

