

# METATRONIX

Innovative Intelligent Transport Systems



- WDR
- HD
- IP66
- IK10



- ITxPT\*
- EMark
- R118

## M-IPCAM2

### 2.0 MP Weather Vandal Proof Network Mobile Camera

- High quality imaging with 4 MP resolution
- 2/2.8/4/6/8mm fixed lens
- Clear imaging against strong back light due to 120 dB WDR technology
- Water and dust resistant (IP67) and vandal resistant (IK10)
- ITxPT module Inventory Service, M12 D-coded plug

Camera	
Sensor	1/8" CMOS Progressive Scan
Resolution	2 MP
Min. Illumination	0.01 Lux @ (F1.6, AGC ON)
Wide Dynamic Range	120 dB
Day & Night	IR Cut Filter
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Pan: -30°~+30° - Tilt: 0°~80° Rotate: 0°~360°
P/N	PAL: 25 fps - NTSC: 30 fps
White Balance	Support four white balance configurations: fluorescent, incandescent, warm and natural light; Support manual/automatic white balance adjustment.
Protection Level	IP66, IK10
Lens	
Lens Type	2.8mm/4mm/6mm
Focal Length	2.8 mm, 4 mm, 6 mm
Lens Mount	M12
Aperture	2.8/4/6/8mm: F1.6
Focus	Manual focus
Illuminator	
IR Range	Up to 10 m
IR Wavelength	850 nm
Supplement Light Type	Infrared fill light lamp
Smart Supplement Light	Support
Video	
Max. Resolution	1920 × 1080
Main Stream	50 Hz: 25 fps (1920x1080, 1280x960, 1280x720) 60 Hz: 30 fps (1920x1080, 1280x960, 1280x720)
Sub-Stream	50 Hz: 25 fps (704x576, 640x480, 352*288, 320x240) 60 Hz: 30 fps (704x480, 640x480, 320x240)
Third Stream	50 Hz: 25 fps (1280x720) - 60 Hz: 30 fps (1280x720)
Video Compression	Main stream: H.264, H.265, H.264+, H.265+, Sub-stream: H.264, H.265, MJPEG, Third stream: H.264, H.265
Video Bit Rate	256 Kbps to 16 Mbps
H.264 Type	Main Profile/High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Stream Type	Main stream, sub stream, third stream
Scalable Video Coding	H.264 and H.265 encoding
Region of Interest (ROI)	Main stream:1 region - Sub stream:1 region
Audio	
Audio Compression	G711U, G711A, G726, AAC, G722, PCM, AAC
Audio Bit Rate	64 Kbps
Audio Sampling Rate	16 kHz
Env. Noise Filtering	Yes

Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, Email, RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, ICMP 802.1X, QoS, IPv6, Bonjour, ISUP5.0
Simultaneous Live View	Up to 8 channels
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
User/Host	Up to 16 users, 3 levels: Administrator, Operator and User
Web Browser	IE8+, Chrome45+, Edge41+, Firefox45+
Image	
Image Settings	Support rotation mode. Browser and client software can adjust brightness, contrast, saturation and sharpness.
Day/Night Switch	Day/Night/Auto/Schedule
SNR	> 50 dB
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	Enables configuration, and supports drawing of up to 4 areas
Picture Overlay	Support image overlay, uploading images, enabling, coordinates, etc.
Target Cropping	Support (only the third stream)
Backlight Compensation(BLC)	Support up, down, left, right, center and custom backlight compensation adjustment
Interface	
Ethernet Interface	-ID: 1 RJ45 10 M/100 M self-adaptive Ethernet port -IM/ND, IDM: 1 four-core M12 aviation plug
On-Board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Audio	1 built-in mic, mono sound
Reset Key	Yes
Interface Style	Interpolate
Event	
Basic Event	Motion detection, video tampering alarm
Smart Event	Line crossing detection, Intrusion detection, Region entrance detection, Region exiting detection, Unattended baggage detection, Object removal detection, Face detection: detects faces and upload images Scene change detection, defocus detection
Linkage	Upload to FTP, notify surveillance center, send email, trigger recording
General	
Camera Material	Metal
Camera Dimension	Camera: Φ 99,3 mm × 96,7 mm x 52,9 mm
Package Dimension	Package: 252 × 160 × 95 mm
Camera Weight	Camera: Approx. 430 g
Startup and Operating Conditions	-30 °C to 75 °C (-22 °F to 167°F), humidity less than 95% or less (non-condensing)
General Function	Anti-flicker, heartbeat, mirror
Power	PoE: 0.30 A to 0.20 A, max: 7.5 W
Power Supply	PoE (802.3 af, 36 V to 57 V)
Power Interface	PoE power supply M12 plug
Software Reset	Support
Cable Length	50 cm
Approval	
PoE Support Class	PoE (802.3 af) Class B
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);
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 Protection	CE-ROHS (2011/65/EU); IP66 (IEC 60529-2013), IK10(IEC 62262:2002) EN50155-2017(EN 50155:2017, EN 50121-3-2:2016, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-30:2005, IEC 61373:2010); EN45545 (EN 45545-2:2013+A1:2015); E-MARK (ECE R10)

(\* ) ITxPT Labelling ongoing

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