



FEATURES

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520)@20 fps,and supports 2560×1440 (2560×1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 60 m.
- ROI, SMART 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.

- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- SMD Plus.

MT-IPB440AI

TECHNICAL SPECIFICATIONS

	Imaga Canaar	1/2 0" CMO			
Camera	Image Sensor Image Resolution	1/2.9" CMOS			
	ROM	2688 (H) × 1520 (V) 128 GB			
	RAM	128 GB			
	S/N Ratio	>56 dB			
	Scanning System	progressive			
	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s			
	Min. Illumination	0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
	Illumination Distance	Up to 60 m (196.85 ft) (IR LED)			
	Illuminator On/Off Control	Auto; Manual			
	Illuminator Number	4 (IR LED)			
	Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
	Lens Type	Motorized vari-focal			
	Lens Mount	φ14			
	Focal Length	2.7 mm–13.5 mm			
	Max. Aperture	F1.5	F1.5		
	Field of View	H: 104°–29°; V: 54°–16°; D: 125°–34°			
	Iris Control	Fixed			
	Close Focus Distance	0.8 m (2.62 ft)			
	DORI Distance	Lens	W	Т	
Lens		Detect	64.0 m (209.97 ft)	210.0 m (688.97 ft)	
		Observe	25.6 m (83.99 ft)	84.0 m (275.59 ft)	
		Recognize	12.8 m (41.99 ft)	42.0 m (137.80 ft)	
		Identify	6.4 m (20.99 ft)	21.0 m (68.90 ft)	
	DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				
Intelligence	IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)			
	Smart 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;	
	Video compression	H.264B	
	Smart Codec	Smart H.265+; Smart H.264+	
	Video Compression	H.264H; H.264B; H.264M by default; H.265; MJPEG; H.264M	
	Video Frame Rate	Main stream: 2688 × 1520@ (1–20 fps)/2560 × 1440@ (1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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.	
	Stream Capability	2 streams	
Video	Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 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: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps	
	Day/Night	Auto(ICR)/Color/B/W	
	BLC	Yes	
	HLC	Yes	
	WDR	120 dB	
	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	Gain Control	Manual; Auto	
	Noise Reduction	3D NR	
	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 2688 × 1520 resolution and lower)	
	Mirror	Yes	
	Privacy Masking	4 areas	
Audio	Built-in MIC	Yes	
	Built	G.711a; G.711Mu; G.726; PCM	
Alarm	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; SMD; security exception	

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Network	Network Port	RJ-45 (10/100 Base-T)	
	SDK and API	Yes	
	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
	User/Host	6 (Total bandwidth: 36 M)	
	Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
	Browser	IE Chrome Firefox	
	Management Software	SmartPSS Lite; DSS; DMSS	
	Mobile Client	iOS; Android	
	Cyber Security	Video encryption; Configuration encryption; Digest; WSSI Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		

Power	Power Supply	12 VDC/PoE (802.3af)
	Power Consumption	-ZS: Basic: 2.4 W (12 VDC); 3.1 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 8.7 W (12 VDC); 10.1 W (PoE) -ZAS: Basic: 2.4 W (12 VDC); 3.1 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 8.8 W (12 VDC); 10.2 W (PoE)
Environment	Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
	Operating Humidity	≤95%
	Storage Temperature	-40 °C to +60 °C (-40°F to +140°F)
	Protection	IP67, IK10 (optional)
General	Casing Material	Metal
	Product Dimensions	238.5 mm×90.7 mm×90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
	Net Weight	-ZS: 0.73 kg (1.6 lb) -ZAS: 0.76 kg (1.7 lb)
	Gross Weight	-ZS: 0.99 kg (2.2 lb) -ZAS: 1.02 kg (2.2 lb)

