



FEATURES

- 4-MP 1/2.9" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 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 detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Built-in Mic. Max. 256 G Micro SD card.
- 12 VDC/PoE power supply facilitates installation.
- IP67, protection.
- SMDAi 4.0, AI SSA



Accessories:

DT-MFA122
junction box



Accessories:

DT-FA135
junction box



Accessories:

DT-MFA152
pole mount

MT-IPB540Z4LAIS-AI

TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.9" CMOS			
	Max. Resolution	2688 (H) × 1520 (V)			
	ROM	128 MB			
	RAM	512 MB			
	Scanning System	Progressive			
	Electronic Shutter Speed	Auto/Manual 1/3 s~1/100000 s			
	Min. Illumination	0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)			
	S/N Ratio	> 56 dB			
	Illumination Distance	60 m (196.85 ft)			
	Illuminator On/Off Control	Auto / Manual			
	Illuminator Number	4 (IR LED)			
	Lens	Pan/Tilt/Rotation Range	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°		
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7mm~13.5mm			
Max Aperture		F1.5			
Field of View		Horizontal: 104°~29° Vertical: 54°~16° Diagonal: 125°~33°			
Iris Type		Fixed			
Close Focus Distance		0.8 m (2.62 ft)			
DORI Distance			Lens	W	T
		Detect	64.0 m (209.97 ft)		210.0 m (688.98 ft)
	Observe	25.6 m (83.99 ft)		84.0 m (275.60 ft)	
	Recognize	12.8 m (41.99 ft)		42.0m (137.80 ft)	
	Identify	6.4 m (21.00 ft)		21.0 m (68.90 ft)	
Intelligent	IVS (Perimeter Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)			
	AI SSA	Yes			
	Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events			
	Smart 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+/ Smart H.264+		
	AI Coding	AI H.265 / AI H.264		
	Video Frame Rate	Main stream: 2688 × 1520 @ (1~25/30) fps Sub stream 1: 704 × 576 @ (1~25 fps)/704 × 480 @ (1~30 fps) Sub stream 2: 1920 × 1080 @ (1~25/30 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		
	Stream Capability	3 streams		
	Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304×1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)		
		Bit Rate Control	CBR/VBR	
		Video Bit Rate	H.264: 3 Kbps~8192 Kbps H.265: 3 Kbps~8192 Kbps	
		Day/Night	Auto(ICR)/Color/B/W	
		BLC	Yes	
		HLC	Yes	
	WDR	120 dB		
	Scene Self-adaptation (SSA)	Yes		
	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
	Gain Control	Auto		
	Noise Reduction	3D NR		
	Motion Detetion	OFF/ON (4 areas, rectangular)		
	Image Stabilization	Electronic Image Stabilization (EIS)		
	Region of Interest (Rol)	Yes (4 areas)		
	Defog	Yes		
	AFSA	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	
		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Mtechnology card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception			

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TECHNICAL SPECIFICATIONS

Network	Network Port	RJ-45 (10/100 Base-T)
	SDK and API	Yes
	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
	Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
	User/Host	20 (Total bandwidth: 64 M)
	Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
	Browser	IE: IE11 Chrome Firefox
	Management Software	Smart PSS, DSS, DMSS
	Mobile Phone	iOS, Android
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	Basic: 2.8 W (12 VDC); 3.6 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.9 W (12 VDC); 9.2 W (PoE)
Environment	Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F) / Less than 95% RH
	Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
	Protection	IP67
Structure	Casing	Metal
	Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.1" × 3.0") (L × W × H)
	Net Weight	820 g (1.8lb)
	Gross Weight	1090 g (2.4lb)