



FEATURES

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 × 2160) @25/30 fps (when AI function disabled)
- H.265 codec, high compression rate, 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 DNR, 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, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 1 in, 1 out audio: 1 in, 1 out
- Supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67 protection
- Ai



Accessories:

DT-MFA122
junction box



Accessories:

DT-FA135-4
junction box



Accessories:

DT-MFA152
pole mount

MT-IPB580Z4LAI

TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.8"8Megapixel progressive CMOS			
	Max. Resolution	3840 (H) × 2160 (V)			
	ROM	128 MB			
	RAM	512 MB			
	Scanning System	Progressive			
	Electronic Shutter Speed	Auto/Manual 1/3 s~1/100,000 s			
	Min. Illumination	0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)			
	S/N Ratio	> 56 dB			
	Illumination Distance	60 m (197 ft)			
	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	Lens Type	Motorized vari-focal			
	Mount Type	φ14			
	Focal Length	2.7mm~13.5mm			
	Max Aperture	F1.5			
	Field of View	Horizontal: 113°~31° Vertical: 58°~17° Diagonal: 138°~36°			
	Iris Type	Fixed			
	Close Focus Distance	0.8 m (2.6 ft)			
	DORI Distance		Lens	W	T
		Detect	85.3 m (279.9 ft)	280.0 m (918.6 ft)	
		Observe	34.1 m (111.9 ft)	112.0 m (367.5 ft)	
Recognize		17.0 m (55.8 ft)	56.0 m (183.7 ft)		
Identify		8.5 m (27.9 ft)	28.0 m (91.9 ft)		
Professional, Intelligent	IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			
	Intelligent 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; H.264B; MJPEG (only supported by the sub stream)			
	Smart Codec	Smart H.265+ / Smart H.264+			
	Video Frame Rate	Main stream: 3840 × 2160 @(1~20 fps by default) 3840 × 2160 @(1~25/30 fps when AI function disabled)			
		sub stream: 704 × 576 @(1~25 fps)/704 × 480 @(1~30 fps)			
		third stream: 1920 × 1080 @(1~25/30 fps)			
	Stream Capability	3 streams			
	Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 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: 3 kbps~8192 kbps H.265: 3 kbps~8192 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				

Video	Gain Control	Auto/Manual		
	Noise Reduction	3D DNR		
	Motion Detetion	OFF/ON (4 areas, rectangular)		
	Region of Interest (RoI)	Yes (4 areas)		
	Smart Illumination	Yes		
	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)		
	Mirror	Yes		
Privacy Masking	4 areas			
Audio Compression	G.711a; G.711Mu; G726			
Alarm Event	-ZAS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm;SMD; safety exception			
	-ZS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception			
Network	Network	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		
		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		
	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; Milestone; Genetec		
	User/Host	20 (Total bandwidth: 72 M)		
	Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
	Browser	IE: IE8; IE9; 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: UL60950-1 CAN/CSA C22.2 No.60950-1-07		
		Audio Input	1 channel (RCA port)	
Port	Audio Output	1 channel (RCA port)		
	Alarm Input	1 channel in: 5mA 3V~5V DC		
	Alarm Output	1 channel out: 300mA 12V DC		
	Power Supply	12V DC/PoE (802.3af)		
Power	Power Consumption	Basic power consumption: 3.0W (12V DC); 3.5W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 9.2W (12V DC); 10.7W (PoE)		
	Operating Conditions	-30°C to +60°C (-22°F to +140°F)/ Less than 95% RH		
Environment	Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
	Protection Grade	IP67		
Structure	Casing	Metal		
	Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)		
	Net Weight	820g (1.8 lb)		
	Gross Weight	1090g (2.4 lb)		