MT-IPB550Z4AI
5MP IR Vari-focal Bullet AI Network Camera

Industrial CCTV

FEATURES

- 1/2.7" 5Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- 20 fps@2592 × 1944, 50/60 fps@1080P(1920 × 1080)
- WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC

- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm–13.5 mm motorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67, IK10

Accessories:
DT-MFA121
junction box

Accessories:
DT-MFA152
pole mount

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TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.7" 5Megapixel progressive scan CMOS
	Max. Resolution	2592 (H) × 1944 (V)
	RAM/ROM	1 GB/128 MB
	Scanning System	Progressive
	Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s
	Min. Illumination	0.005 Lux@F1.5
	S/N Ratio	>56dB
	Illumination Distance	Distance up to 50 m (164 ft)
	Illuminator On/Off Control	Auto / Manual
	Illuminator Number	4(IR LED)

Lens	Lens Type	Motorized vari-focal		
	Mount Type	Board-in		
	Focal Length	2.7mm~13.5mm		
	Max Aperture	F1.5		
	Angle of View	H: 100°–28°, V: 72°–21° (2592 × 1944) H: 104°–29°, V: 55°–16° (2688 × 1520)		
	Aperture Type	Auto		
	Close Focus Distance	0.8 m (2.62 ft)		
	DORI Distance	Lens	W	T
		Detect	64m(210ft)	212m (696ft)
		Observe	26m(85ft)	85m (279ft)
		Recognize	13m(43ft)	42 m (138 ft)
		Identify	6m(20ft)	21m (69 ft)

Pan/Tilt/Rotation Range	Pan: 0˚–360˚; Tilt: 0˚–90˚; Rotation: 0˚–360˚

Lens	Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly
	General Intelligence	Object Abandoned/Missing
	Heat Map	Yes

Video	Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
	Smart Codec	Smart H.265+/ Smart H.264+
	Streaming Capability	3 Streams
	Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
	Frme rate	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
		Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
		Third Stream: 1080P (1 fps–17 fps)
	Bit Rate Control	CBR/VBR
	Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps

Video	Day/Night	Auto(ICR)/Color/B/W
	BLC Mode	BLC/HLC/WDR (120 dB)
	White Balance	Auto/Natural/Street Lamp/Outdoor/ Manual
	Gain Control	Auto/Manual
	Noise Reduction	3D DNR
	Motion Detetion	OFF/ON (4 areas, rectangular)
	Region of Interest	Off/On (4 Zone)
	Electronic Image Stabilization (EIS)	Yes
	Smart Illumination	Yes
	Defog	Yes
	Flip	0°/90°/180°/270°
	Mirror	Yes
	Privacy Masking	4 areas

Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; Defocus Detection; scene changing; intrusion; tripwire; aban doned object; missing object; fast moving; parking detection; loitering detection; people gathering; audio detection; people counting; face detection; voltage detection; People counting in area; Stay alarm; People No. exception detection; Queue Management

Network	Network	RJ-45 (10/100 Base-T)
	SDK and API	Yes
	Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;U-DP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;-DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE-;802.1x;SNMP
	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P
	User/Host	20 User
	Storage	NAS;FTP;SFTP;Dahua Cloud Micro SD card 256 GB
	Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
	Management SoftwareSoftware	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

Interface	Audio Interface	1/1 channel In/Out
	Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

Electrical	Power Supply	DC 12V (±30%), PoE (802.3af)
	Power Consumption	<10.9W

Environmental	Operating Conditions	-30° C to +60° C (-22° F to +140° F) /Less than 95% RH
	Storage Conditions	-40° C to +60° C (-40° F to +140° F)
	Protection Grade	IP67,IK10

Structure	Casing	Metal, plastic
	Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")
	Net Weight	1.11 kg (2.44 lb)
	Gross Weight	1.51 kg (3.33 lb)

Datasheet rev.A22.2

TECHNICAL SPECIFICATIONS

Artificial Intelligence	Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo;three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
	Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
	People Counting	Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm

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