



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

MT-IPB550Z4A1

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)			
	Frame 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;UDP;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 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		
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