

MTZ4250-IR-AISMD-AT-DI-AD

4MP 25x Starlight IR Montavue Network PTZ Camera



- 1/2.8" 4Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- Starlight technology
- IR distance up to 150 m
- Perimeter protection
- Face detection
- Metadata
- Full-color illuminator; red and blue warning light
- IP66
- Smart dual illuminators (recommended to use within 50 m)
- Auto Tracking



System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light conditions, Montavue's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Smart Capture

Supports human, motor vehicle and non-motor vehicle image capture.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time.

This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Siren and Light Active Deterrence

The camera supports the red and blue light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in the alarm voice, and supports customized voice importing.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Pixel	4MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	4GB
RAM	1GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)
Illumination Distance	150 m (492.13 ft) (IR) 50 m (164.04 ft) (white light)
Illuminator Number	2 (IR light) 2 (dual light fusion)

Lens

Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6–F3.5			
Field of View	H: 55.8°–2.9°; V: 31.6°–1.6°; D: 63.7°–3.3°			
Optical Zoom	25×			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.8 m–5.0 m (2.62 ft–16.40 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1,655 m (5,429.79 ft)	653 m (2,142.39 ft)	331 m (1,085.96 ft)	165 m (541.34 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°/s–160°/s Tilt: 0.1°/s–60°/s
Preset Speed	Pan: 240°/s; Tilt: 150°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset; Tour; Pattern; Scanning
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)

Intelligence

Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture.
IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Detection	Yes

SMD	Yes
Auto Tracking	Yes

Active Deterrence

Light Warning	Red and blue warning light Flash duration: 5 s–30 s Flash frequency: High, medium, low
Sound Warning	Sound warning alarm: Customizable

Video

Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264H; MJPEG
Streaming Capability	3 Streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	Default resolution of the main stream: H264: 2816 kbps–8192 kbps H265: 1024 kbps–7936 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	120 dB
HLC	Support
White Balance	Auto; manual; tracking; indoor; outdoor; outdoor auto; sodium lamp; sodium lamp auto
Gain Control	Auto/Manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Electronic Image Stabilization	Yes
Electronic Defog	Yes
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks
S/N Ratio	≥ 55 dB

Audio

Audio Compression	G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM
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Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS

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User/Host	20 (total bandwidth: 64 M)
Interoperability	ONVIF (Profile S&G&T)
Storage	FTP; Micro SD card (256 GB); NAS
Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Configtool; NVR; Smart Player, MontavueGo
Mobile Client	iOS; Android; iPhone; iPad; Windows Phone

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
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Port

Audio Input	1 (LINE IN; bare wire)
Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))
Alarm Input	2-ch, digital input (0-5 VDC)
Alarm Output	1-ch
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; send email
Alarm Event	Motion/tampering detection; audio de- tection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Power

Power Supply	24 VDC, 2.5 A ($\pm 25\%$) (included) PoE+ (802.3at)
Power Consumption	Basic: 13 W Max.: 23 W (illuminator + red and blue warning light+speaker + PTZ working)

Environment

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	$\leq 95\%$
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection

Structure

Casing	ADC12
Product Dimensions	325.3 mm \times \varnothing 202.0 mm (12.81" \times \varnothing 7.95") (H \times D)
Net Weight	4.6 kg (10.14 lb)
Gross Weight	9.1 kg (20.06 lb)

Accessories

Type	Model	Description
4M Montavue PTZ Camera	MTZ4250-IR-AISMD- AT-DI-AD	4MP 25x Star- light IR Mon- tavue Network PTZ Camera
Accessories (Optional)	DC24V/2.5A	Power Adapter
	MAM305W	Wall Mount Bracket
	MAM111	Mount Adapter
	MAM300C	Ceiling Mount Bracket
	MAM303S	Parapet Mount Bracket
	MAM151	Corner Mount Bracket
	MAM150	Pole Mount Bracket

Dimensions (mm[inch])

