

# MTD4095

## 4MP Smart Motion Fixed-Focal Vandal Dome Network Camera



### **System Overview**

With advanced deep learning algorithm, Montavue 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

### **Functions**

#### **SMD Plus**

With intelligent algorithm, Montavue Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Montavue smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### **Perimeter Protection**

With deep learning algorithm, Montavue Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30m.
- 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- · SMD Plus.













#### **WDR**

With advanced Wide Dynamic Range (WDR) technology, Montavue network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

### **Cyber Security**

Montavue network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

### Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

# **Technical Specification**

## Camera

Image Sensor	1/2.9" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	up to 30 m (98.43 ft) (IR LED)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	3 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°-355° Tilt: 0°-65° Rotation: 0°-355°

### Lens

Lens Type		Fixed-foca	ıl		
Lens Mount		M12			
Focal Length		2.8 mm			
Max. Aperture	e	F1.6			
Field of View		2.8 mm: H	: 102°; V: 5	4°; D: 121°	
Iris Control		Fixed			
Close Focus I	Distance	2.8 mm: 1.7	1 m (2.30 ft	:)	
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	2.8mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)

## Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

## Video

Video Compression
Smart Codec
Video Frame Rate

Stream Capability	2 streams
Resolution	4M (2688 × 1520/2560 × 1440); 3M (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: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
WDR	120db
HLC	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Manual;Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Roi)	Yes (4 areas)
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; G.726; PCM

## Alarm

Alarm Event	No SD card; SD card full; SD card error;
	network disconnection; IP conflict; illegal
	access; motion detection; video tampering;
	tripwire; intrusion; audio detection; voltage
	detection; SMD; security exception;

## Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Interoperability	ONVIF (Profile S/Profile G); CGI; P2P
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP;SFTP; Micro SD card (support max. 256 GB)
Browser	IE; Chrome; Firefox
Management Software	MontavueGo
Mobile Client	iOS;Android
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

## Certification

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
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## Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.3 W (12 VDC); 2.9 W (PoE) Max. (ICR + H.265 + WDR + max. Illumination + intelligence on): 5 W (12 VDC); 6 W (PoE)

## Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP67; IK10

### Structure

Casing Material	Metal
Product Dimensions	81.0 mm × 109.9 mm (3.19" × 4.33")
Net Weight	0.34 kg (0.75 lb)
Gross Weight	0.49 kg (1.08 lb)

## Accessories

Type	Model	Description
4MP camera	MTT4095	4MP IR Fixed-focal Dome Montavue Network Camera
Accessories (Optional)	MAM152-E	Pole Mount Bracket
	MAM136	Junction Box
	MAM203W	Wall Mount Bracket

# Dimensions (mm[inch])

