

M1221-Q

2T 2MP Multi-Algorithm Box Camera

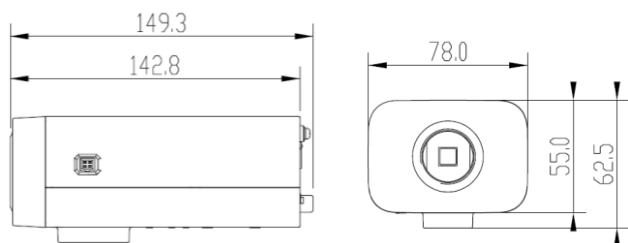


Features

- Computing power 2 TOPS
- Support behavior analysis, exception detection, face and person, crowd flow analysis
- 1/1.8" progressive scan CMOS
- Intelligent object detection algorithms based on deep learning. The camera can detect up to 50 objects at a time
- Facial attribute recognition and personal attribute recognition
- Area cropping, allowing users to view fine details at a limited bandwidth
- Stream smoothing, meeting various requirements for video quality and fluency
- Traffic shaping, enabling precise control over instantaneous burst of video streams and delivering smooth video without packet loss
- TCP acceleration, enabling the network to carry video streams of higher quality

Dimensions

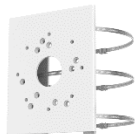
Unit: mm



Recommended Accessories



Wall-mount bracket
DTS-12C



Pole mount bracket
DTS-11C



Universal joint
DTS-13C

Technical Specifications

Product Model	M1221-Q
Intelligent Function	
CPU	Hi3519A
Computing Power	2 TOPS
Behavior analysis	Fast movement detection, abandoned object detection, removed object detection, tripwire crossing detection, intrusion detection, area entry/exit detection, and loitering detection(constraint scenario)
Exception detection	Audio existence detection, sudden volume increase or decrease detection, scene change detection, defocus detection, and heat map (constraint scenario)
Face and person	Face capture, facial attribute recognition, person detection and personal attribute recognition (constraint scenario)
Crowd Flow Analysis	Head counting, crowd flow statistics and queue length detection (constraint scenario)
Camera	
Image sensor	1/1.8" 2-megapixel progressive scan CMOS
Memory	DDR4, 512MB*2
Flash	SPI NAND FLASH 512MB
Effective pixels	1920(H) x 1080(V)
Minimum illumination	Color: 0.001 lux (F1.2, AGC ON, 1/30s shutter speed) B/W: 0.0001 lux (F1.2, AGC ON, 1/30s shutter speed)
Day/Night mode	Automatic ICR, color, or B/W
Shutter speed	1/68250s to 1/3s
Gain control	Auto/Manual
Wide dynamic range (WDR)	120 dB, physical WDR
Backlight Compensation (BLC)	Supported (BLC area is selectable)
Highlight Compensation (HLC)	Supported
Image defogging	Auto/Manual/Off
White balance	Auto tracking/Auto/Manual
Digital noise reduction (DNR)	2D/3D noise reduction
Focus assistance	Supported
Lens	
Lens mount	CS-mount
Iris type	DC-Iris
PTZ	
Preset position	256
Function	
Video encoding format	H.265/H.264/MJPEG
Maximum resolution	1920 x 1080
Frame rate	Configurable (60 fps, 50 fps, 30 fps, or 25 fps) 25 default
Multi-channel encoding	Supports five streams and dual-channel independent 1080p HD video encoding.
Area cropping encoding	4-channel encoding (secondary streams)
Intelligent encoding	Extra265/264
Audio encoding format	G.711a/G.711u/G.726/OPUS/ACC
Camera connection protocol	GB/T 28181-2011/2016, GAT 1400-2017, and GB 35114-2017
Network protocol	TCP, UDP, IPv4, IPv6, DHCP, DHCPv6, DNS, ICMP, ICMPv6, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP, 802.1X, QoS, DDNS, SMTP, SSH, and TLS
Security mode	User name and password authentication, 802.1X, HTTPS digital certificate, and flood attack prevention
Network intrusion alarm	Brute force attack detection, unauthorized super user detection, and botnet detection
Media security	KMC key encryption, AES256-based stream encryption, and digital watermark
Alarm linkage	Alarm source: motion detection/lens blocking/Boolean value input/intelligent analysis alarms Linked action: Boolean value output/preset position/tour track/scan/SD card-based recording/SD card-based snapshot/email sending/pre-recording
Port	
Network port	One RJ45 10M/100M adaptive Ethernet port
Communication serial port	One RS-485 port
Alarm port	1 alarm input port and 1 alarm output port
Audio port	1 audio input port and 1 audio output port
Storage port	One microSDHC/microSDXC card slot, supporting a maximum capacity of 256 GB
General Specifications	
Power supply	12 V DC, 24 V AC, PoE+
Power consumption	Maximum: 5.7 W; Typical: 4.4 W
Operating temperature	-40°C to +60°C (with a housing)
Operating humidity	5% to 95% (non-condensing)
Surge protection level	4 kV
Weight (excluding lens)	Net weight: 0.54 kg; Gross weight: 0.74 kg
Dimensions (excluding lens)	Device :62.5 mm x 78 mm x149.2 mm; Packing:108 mm x 125 mm x 230 mm