MS1200T
Thermal Network Bullet Camera

- Thermal View and Visible Light View
- Thermal Video Max. Resolution: 160 x 120 (Output image 320 x 240)
- Visible Video: Max. Resolution: 1920 x 1080
- Video Content Analysis (VCA)
- Temperature exception alarm
- Fusion views of thermal view and overlaid details of visible light view

Unit: mm

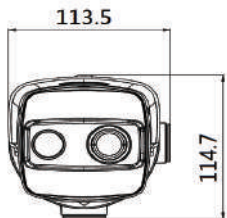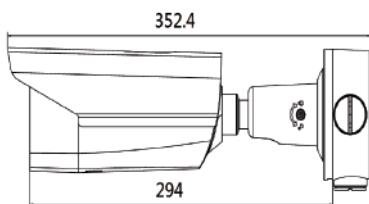| MODEL	MS1200T

Category	Specification	Value
THERMAL VIDEO	IMAGE SENSOR	Vanadium Oxide Uncooled Focal Plane Arrays
	MAX. RESOLUTION	160 x 120 (output image 320 x 240)
	PIXEL INTERVAL	17μm
	RESPONSE WAVEBAND	8μm to 14μm
	FRAME RATE	Up to 25fps
	NETD	Less than 40mk(@25°C,F#=1.1)
	LENS	3.1mm
	FIELD OF VIEW	50° × 37.2° (H × V)
	MRAD	5.48mrad
	MIN. FOCUSING DISTANCE	0.2m
	APERTURE	F1.1
VISIBLE LIGHT VIDEO	IMAGE SENSOR	1/2.8" Progressive Scan CMOS
	MAX. RESOLUTION	1920 x 1080
	MIN, ILLUMINATION	Color: 0.002 Lux @(F1.5,AGC ON), B/W: 0.0002 Lux @(F1.5, AGC ON)
	FRAME RATE	up to 25fps (50Hz) / 30fps(60Hz)
	SHUTTER SPEED	1s to 1/100,000s
	LENS	4 mm
	FIELD OF VIEW	87° × 46.2°(H × V)
	IR DISTANCE	UP to 40m
FUNCTION	VCA (VIDEO CONTENT ANALYSIS)	VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules
	TEMPERATURE MEASUREMENT	3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line)
	TEMPERATURE RANGE	-20 °C to +150 °C (-4 °F to +302°F)
	TEMPERATURE ACCURACY	± 8 °C (± 14.4 °F)
	FIRE DETECTION	Dynamic fire point detection , up to 10 fire points
	ALARM ACTION	SD recording/ relay output/ photo capture/ FTP upload/ Email
	FUSION VIEW	Fusion view of thermal view and overlaid details of the optical channel
	PICTURE IN PICTURE	Combine details of thermal and optical image PIP, overlay thermal image on optical image

CONNECTIVITY	**NETWORK INTERFACE**	RJ45 × 1, 10M / 100M self-adaption
	NETWORK PROTOCOL	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
	WEB SERVER	Built-in
	ONVIF	Profile S
	AUDIO INPUT	1CH 3.5mm Mic in/Line in interface Line input: 2 - 2.4V [p-p], Output impedance: 1KΩ ±10%
	AUDIO OUTPUT	Linear Level; Impedance: 600Ω
	ALARM INPUT	1CH input
	ALARM OUTPUT	1CH relay output
	RS485	Yes
COMPRESSION	**VIDEO COMPRESSION**	H.265 / H.264
	MAIN STREAM	Visible Light: 1920 × 1080, 1280 × 960, 1280 × 720 Thermal: 160 × 120 (output image 320 × 240)
	SUB STREAM	Visible Light: 50Hz: 704 × 576, 352 × 288, 176 × 144 Visible Light: 60Hz: 704 × 480, 352 × 240, 176 × 120 Thermal: 160 × 120 (output image 320 × 240)
	AUDIO COMRESSION	G.711u / G.711a / G.722.1 / MP2L2 / G.726 / PCM
EDGE RECORDING	**Micro SD Card**	Max. 128GB
POWER	**VOLTAGE**	12 VDC ± 20%
	MAX. RATING	12W
	POE	802.3af, class 4
OPERATING ENVIRONMENT	**AMBIENT TEMPERATURE**	-40°C to 60°C
	RELATIVE HUMIDITY	90% or less
MECHANICAL DESIGN	**WEATHER PROOF**	IP66
	PROTECTION LEVEL	TVS 6000V Lightning protection, surge protection, voltage transient protection
	DIMENSION	353 mm × 114 mm × 115 mm
	WEIGHT	1.5 kg

VCA Detection Range: (* The table is only for reference, the performance may vary from camera to camera.)
Different targets trigger the VCA events within different range limits.

VCA Range (Vehicles: 1.4m x 4m)	VCA Range (Humens:1.8m x0.5m)	Temperature Measurement (Object: 2m x 2m)	Temperature Measurement (Object: 1m x 1m)	Fire Detection (Object: 2m x 2m)	Fire Detection (Object: 1m x 1m)
63m	21m	66m	33m	180m	90m

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