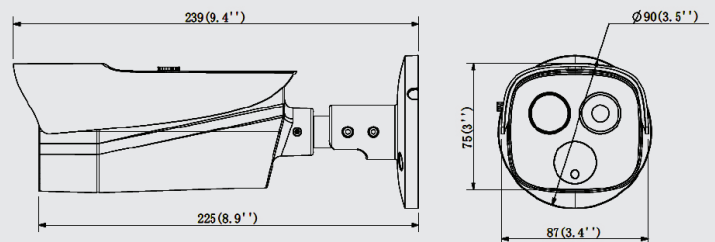




Human Detection

## FEATURES

- 160x120 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal camera), Focus-free
- 1/2.8" 2Megapixel progressive scan Sony CMOS
- Support ROI, Motion Detection, Color Palettes
- Support Fire detection & alarm
- Built-in 2/1 alarm in/out
- Micro SD memory, IP67



# MT-TP2120HYB

## TECHNICAL SPECIFICATIONS

Thermal Camera	Image Sensor	Uncooled VOx Microbolometer
	Effective Pixels	160(H)x120(V)
	Pixel size	12um
	Thermal Sensitivity (NETD)	<50mK@f/1.1
	Spectral Range	7~14um
	Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
Thermal Lens	Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)
	Lens Type	Fixed
	Focus Control	Athermalized, Focus-free
	Focal Length	1mm
	Effective Distance 1 Man(1.8m*0.5m)	D2: 60m R3: 20m L4: 10m
	Effective Distance Vehicle(2.3m*2.3m)	D: 200m R: 60m L: 30m
Visible Camera	Angle of View	H: 56° V: 44°
	Image Sensor	1/2.8" 2M CMOS
	Effective Pixels	1944(H)x1092(V)
	Electronic Shutter Speed	1/1 ~ 1/30,000s
	Min. Illumination	Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8; 0Lux (IR on)
	IR Distance	35m
Visible Lens	IR On/Off Control	Auto/Manual
	IR LEDs	1
	Focal Length	4mm
	Max Aperture	F1.8
	Angle of View	H: 74.8° V: 44.7°
	Video	Compression
IR LEDs		Main Stream: Thermal: 1280*960 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps
		Sub Stream: Thermal: 640*480 (default)/320*240@1~25/30fps Visible: CIF (default)/D1@1~25/30fps
Bit Rate Control		CBR/VBR
Bit Rate		H.264: 640 ~ 8192Kbps
Day/Night		Auto(ICR)/Color/B/W
BLC Mode		BLC/HLC/WDR
White Balance		Auto/Manual
Noise Reduction		Ultral DNR
Motion Detetion		Off/On (4 zone, Rectangle)
Region of Interest		Off/On (4 zone)
Defog		Off/On
Flip		180°
Mirror		Off/On
Privacy Masking		Off/On (4 area, Rectangle)

Audio	Compression	G.711a/G.711Mu/AAC
Intelligence	IVS	Tripwire, Intrusion, Object Abandon/Missing
	Advanced Intelligent Functions	Fire detection & alarm, Image Fusion
Network	Ethernet	RJ-45 (10/100Base-T)
	Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
	Interoperability	ONVIF Profile S & G, PSIA, CGI
	Streaming Method	Unicast / Multicast
	Max. User Access	10 Users/20 Users
	Edge Storage	micro SD (128GB) Memory status display (Normal/Error/Active/ Formatting/Lock), NAS (Network Attached Storage), Local PC for instant recording
	Management Software	Smart PSS, DSS
	Smart Phone	Android, IOS
	Certifications	CE (EN 60950:2000) FCC (FCC Part 15 SubpartB )
	Interface	Video Interface
Audio Interface		In/Out 1/1
RS485		Support
Alarm		2/1 In/Out
Electrical	Power Supply	DC 12V/PoE
	Power Consumption	12W (IR on), 9W(IR off)
Environmental	Operating Conditions	-30°C ~ +55°C (-22°F ~ +131°F)/Less than 95% RH * Start up should be done at above -30°C (-22°F)
	Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
	Ingress Protection	IP67
Construction	Casing	Metal
	Dimensions	238.6mm × 90.4mm× 90.4mm (9.39" × 3.56" × 3.56") (With bracket)
	Weight	<1Kg

Datasheet rev.A18.5