

## Industrial CCTV



### FEATURES

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- 256x192 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), Focus-free
- 1/2.8" 2Megapixel progressive scan CMOS
- Support ROI, motion detection, color palettes
- Smart alarm linkage
- Support Fire detection & alarm
- Built-in 2/2 alarm in/out
- Micro SD memory, IP67, PoE/ePoE

# MT-TP4121HYB-T

## TECHNICAL SPECIFICATIONS

0.2m	<b>Image Sensor</b>	Uncooled VOx Microbolometer		
	<b>Effective Pixels</b>	256(H) x 192(V)		
	<b>Pixel Size</b>	12um		
	<b>Thermal Sensitivity (NETD)</b>	≤50mK		
	<b>Spectral Range</b>	8 ~ 14um		
	<b>Image Setting</b>	Brightness/Sharpness/ROI/AGC/FFC/3D DNR		
	<b>Color Palettes</b>	18(Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)		
Thermal Lens	<b>Lens Type</b>	Fixed/F1.0		
	<b>Focus Control</b>	Athermalized, Focus-free		
	<b>Focal Length</b>	-	7mm	
	<b>Angle of View</b>	H: 24°, V: 18°		
	<b>Effective Distance Human(1.8m*0.5m)</b>		D: 292m R: 75m I: 38m	
<b>Effective Distance Vehicle(4.0m*1.4m)</b>		D: 778m R: 194m I: 97m		
Visible Camera	<b>Image Sensor</b>	1/2.8" 2M CMOS		
	<b>Effective Pixels</b>	1920(H)x1080(V)		
	<b>Electronic Shutter Speed</b>	1/1 ~ 1/30,000s		
	<b>Min. Illumination</b>	Color: 0.005Lux; B/W: 0.0005Lux; 0Lux (IR on)		
	<b>IR Distance</b>	50m		
	<b>IR On/Off Control</b>	Auto/Manual		
	<b>IR LEDs</b>	1		
Visible Lens	<b>Focal Length</b>		8mm	
	<b>Max Aperture</b>		F1.9	
	<b>Angle of View</b>		H: 40°, V: 22°	
	<b>Close Focus Distance</b>	0.2m		
Video	<b>Compression</b>	H.265/H.264M/H.264H/H.264B/MJPEG		
	<b>Frame Rate</b>	Main Stream: 50Hz: Thermal: 1280*960/1024*768/640*480/256*192@25fps Visible: 1920*1080/1280*720/704*576@25fps 60Hz: Thermal: 1280*960/1024*768/640*480/256*192@30fps Visible: 1920*1080/1280*720/704*480@30fps  Sub Stream: 50Hz: Thermal: 640*480/256*192@25fps Visible: 704*576/352*288@25fps 60Hz: Thermal: 640*480/256*192@30fps Visible: 704*480/352*240@30fps		
	<b>Resolution</b>	4000 × 3000, 2880 × 2880, 2880 × 2160, 2048 × 1536 (3M), 1280 × 960 (1.3M), (704 × 576/704 × 480) D1, (352 × 288/352 × 240) CIF		
	<b>Bit Rate Control</b>	CBR/VBR		
	<b>Bit Rate</b>	H.264: 640 ~ 8192Kbps		
	<b>Day/Night</b>	Auto(ICR)/Color/B/W		
	<b>BLC Mode</b>	BLC/HLC/DWDR		
	Video	<b>White Balance</b>	Auto/Indoor/ Outdoor/Manual etc.	
		<b>Noise Reduction</b>	2D DNR/3D DNR	
		<b>Motion Detetion</b>	Off/On (4 zone, Rectangle)	
		<b>Region of Interest</b>	Off/On (4 zone)	
<b>Defog</b>		Off/On		
<b>Flip</b>		180°		
<b>Mirror</b>		Off/On		
<b>Privacy Masking</b>		Off/On (4 area, Rectangle)		
<b>Audio</b>	<b>Compression</b>	G.711a/G.711Mu/AAC/PCM		
Intelligence	<b>IVS</b>	Tripwire, Intrusion		
	<b>Advanced Intelligent Functions</b>	Fire detection & alarm, Cold/ Hot spot trace, Human/Vehi- cle classificaton, Smoking detection		
Network	<b>Ethernet</b>	RJ-45 (10/100Base-T)		
	<b>Protocol</b>	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, SNMP, QoS, UPnP, NTP		
	<b>Interoperability</b>	ONVIF Profile S & G, API		
	<b>Streaming Method</b>	Unicast/Multicast		
	<b>Max. User Access</b>	20 Users		
	<b>Edge Storage</b>	micro SD (256G) Memory status display (Normal/Error/Active/ Formatting/Lock) NAS (Network Attached Storage) Local PC for instant recording		
	<b>Web Viewer</b>	>IE8,		
	<b>Management Software</b>	Smart PSS, DSS		
<b>Smart Phone</b>	Android, IOS			
<b>Certification</b>	CE (EN 60950:2000) FCC (FCC Part 15 Subpart B )			
Interface	<b>Video Interface</b>	1 port(BNC)		
	<b>Audio Interface</b>	In/Out 1/1		
	<b>RS485</b>	Support		
	<b>Alarm</b>	2/2 In/Out		
Electrical	<b>Power Supply</b>	DC 12V±15%/PoE/ePoE		
	<b>Power Consumption</b>	Max 12W		
Environmental	<b>Operating Condition</b>	-30°C ~ +60°C (-22°F ~ +140°F)		
	<b>Storage Conditions</b>	-40°C ~ +70°C (-40°F ~ +158°F)		
	<b>Relative Humidity</b>	≤ 95%		
	<b>Ingress Protection</b>	IP67		
Construction	<b>Casing</b>	Metal		
	<b>Dimensions</b>	279.9mm×103.8mm×95.8mm (11.02" x 4.09" x 3.77")		
	<b>Net Weight</b>	1.4Kg (3.09 lb)		
	<b>Cross Weight</b>	1.9Kg (4.19 lb)		

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