

Thermal Camera



ENC-HBU5M-80R-35

FEATURES

400x300 Uncooled VOx Micro Bolometer Detector

Sensitivity $\leq 40\text{mK}$

8/15/25/35/50 mm Fixed Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HBU5M-80R-35
	Type	Thermal Camera
THERMAL CAMERA	Detector Type	Uncooled VOx Focal Plane Arrays
	Effective Pixels	400x300 and Image can be scaled up to 704x576
	Pixel Size	17um
	Thermal Sensitivity (NETD)	$\leq 40\text{ mK}$
	Spectral Range	8~14um
	Image Settings	Brightness, Sharpness, Contrast, 2D/3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
	Iris	Auto Fixed IRIS
THERMAL LENS	Lens	Fixed
	Digital Zoom	16x
	Focus Control	Auto focus
	Focal Length	8/15/25/35/50 mm
	F No	F1.0
	Angle of View	8 mm : 46.0°(H), 35.3°(V) 15 mm : 25.5°(H), 19.2°(V) 25 mm : 15.4°(H), 11.6°(V) 35 mm : 11.0°(H), 9.0°(V) 50 mm : 7.7°(H), 5.8°(V)
	Detection	8 mm : Human(1.8mx0.5m) - 235 m, Vehicle(4.0mx1.5m) - 722 m 15 mm : Human(1.8mx0.5m) - 441 m, Vehicle(4.0mx1.5m) - 1353 m 25 mm : Human(1.8mx0.5m) - 734 m, Vehicle(4.0mx1.5m) - 2255 m 35 mm : Human(1.8mx0.5m) - 1028 m, Vehicle(4.0mx1.5m) - 3157 m 50 mm : Human(1.8mx0.5m) - 1469 m, Vehicle(4.0mx1.5m) - 4510 m
	Recognition	8 mm : Human(1.8mx0.5m) - 59 m, Vehicle(4.0mx1.5m) - 180 m 15 mm : Human(1.8mx0.5m) - 110 m, Vehicle(4.0mx1.5m) - 338 m 25 mm : Human(1.8mx0.5m) - 184 m, Vehicle(4.0mx1.5m) - 564 m 35 mm : Human(1.8mx0.5m) - 257 m, Vehicle(4.0mx1.5m) - 789 m 50 mm : Human(1.8mx0.5m) - 367 m, Vehicle(4.0mx1.5m) - 1127 m
	Identification	8 mm : Human(1.8mx0.5m) - 29 m, Vehicle(4.0mx1.5m) - 90 m 15 mm : Human(1.8mx0.5m) - 55 m, Vehicle(4.0mx1.5m) - 169 m 25 mm : Human(1.8mx0.5m) - 92 m, Vehicle(4.0mx1.5m) - 282 m 35 mm : Human(1.8mx0.5m) - 129 m, Vehicle(4.0mx1.5m) - 395 m 50 mm : Human(1.8mx0.5m) - 184 m, Vehicle(4.0mx1.5m) - 564 m
	Fire Detection	8 mm : Fire (0.2mx0.2m) - 47 m, Fire (1.0mx1.0m) - 235 m 15 mm : Fire (0.2mx0.2m) - 88 m, Fire (1.0mx1.0m) - 441 m 25 mm : Fire (0.2mx0.2m) - 147 m, Fire (1.0mx1.0m) - 735 m 35 mm : Fire (0.2mx0.2m) - 206 m, Fire (1.0mx1.0m) - 1029 m 50 mm : Fire (0.2mx0.2m) - 294 m, Fire (1.0mx1.0m) - 1471 m

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MODEL	Model No.	ENC-HBU5M-80R-35
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VIDEO	Video Compression	Enhanced H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (704x576) @25/30fps. Sub Stream: Thermal: (352x288) @25/30fps.
	Stream Settings	i-Frame, Frame Rate
	Bit Rate	Thermal : 10Kbps ~ 6Mbps
	Bit Rate Control	CBR, VBR
	Image Settings	Brightness, Contrast, Flip/Mirror/Rotation
	OSD	Up to 8 regions
	OSD Type	Title, Week, Date, Time, Text with different colors and adaptable sizes (Small / Medium / Big), Image overlay
	ROI	Up to 8 regions
	Privacy Masking	Up to 4 regions
AUDIO	Audio Compression	G.711A, G.711U, RAW_PCM
	Audio Bitrate	64 Kbps, 128 Kbps
	Two Way Audio	Supported
	Audio I/O	1/1
SMART	Behaviour Detection	Thermal : Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal: Loitering, Region Entry / Exit Detection, Flame Point Detection, Smoker Detection
	Statistical Analysis	Thermal : People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection
	Alarm Management	Motion Detection, Tampering Alarm, Disk Full Alarm, Temperature Alarm, Input / Output Alarm, Network Alarm
TEMPERATURE	Alarm Notification	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording)
	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
INTERFACE	Measurement range	-20°C ~ 150°C (-4°F ~ 302°F)
	Protocols	TCP/IP, UDP, IPv4, IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP V2/V3, 802.1x, Multicast, SNMP, ARP, SSL / TLS 1.2
	Security	AES 128/256 Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	Compatibility	ONVIF (Profile S, G, T, M), CGI/SDK
	Network	1x RJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	Alarm I/O	2/2
	Heater & Blower	Supported (Optional)
	Max.User	32
	Client Application	EyeGuard
GENERAL	Power Supply	12V DC, PoE+ (IEEE 802.3af)
	Max. Power consumption	≤24W
	Working Temperature	-40 °C ~ 65 °C
	Working Humidity	≤95% RH
	Ingress Protection	IP67
	Vandal Resistant	IK10 (Housing)
	Surge Protection	TVS4000V
	Reset Button	Supported
	Dimensions	(244.8 to 274.8)×180.5×126.8 mm
Weight	2.5 kg	

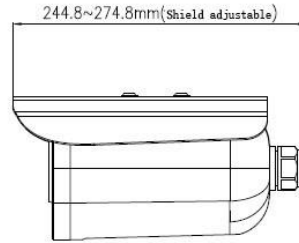
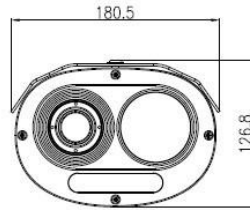
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Dimension Unit : mm



ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HBU5M-80R-35	Thermal Camera - IP Thermal BLT Camera.	1

PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HBU5M-80R-35	Carton Box	-	-