

4MP IP DUAL SENSOR THERMAL BULLET CAMERA



ENC-HBU7M-100R-35

FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

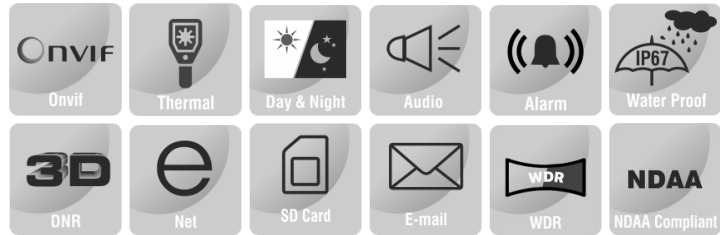
Sensitivity $\leq 40\text{mK}$

9/15/25/35/50 mm Fixed Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HBU7M-100R-35
	Type	4MP IP DUAL SENSOR THERMAL BULLET CAMERA
THERMAL CAMERA	Detector Type	Vanadium Oxide Uncooled VOx Focal Plane Arrays
	Effective Pixels	640x512 and Image can be scaled up to 1280x1024
	Pixel Size	12um
	Thermal Sensitivity (NETD)	$\leq 40\text{ mK}$
	Spectral Range	8~14um
	Image Settings	Brightness, Sharpness, Contrast, Saturation, 2D/3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
	Iris	Auto Fixed
THERMAL LENS	Lens	Fixed
	Focus Control	Auto Focus
	Focal Length	9/15/25/35/50 mm
	F No	F1.0
	Angle of View	9 mm: 48.0° (H), 38.0° (V) 15 mm: 29.0° (H), 23.0° (V) 25 mm: 17.0°(H), 14.0° (V) 35 mm: 12.0° (H), 10.0° (V) 50 mm: 8.0° (H), 7.0° (V)
	Detection	9 mm: Human (1.8mx0.5m) - 375 m, Vehicle (4.0mx1.5m) - 1150 m 15 mm: Human (1.8mx0.5m) - 625 m, Vehicle (4.0mx1.5m) - 1917 m 25 mm: Human (1.8mx0.5m) - 1040 m, Vehicle (4.0mx1.5m) - 3194 m 35 mm: Human (1.8mx0.5m) - 1456 m, Vehicle (4.0mx1.5m) - 4472 m 50 mm: Human (1.8mx0.5m) - 2083 m, Vehicle (4.0mx1.5m) - 6389 m
	Recognition	9 mm: Human (1.8mx0.5m) - 94 m, Vehicle (4.0mx1.5m) - 288 m 15 mm: Human (1.8mx0.5m) - 156 m, Vehicle (4.0mx1.5m) - 479 m 25 mm: Human (1.8mx0.5m) - 260 m, Vehicle(4.0mx1.5m) - 799 m 35 mm: Human (1.8mx0.5m) - 365 m, Vehicle(4.0mx1.5m) - 1118 m 50 mm: Human(1.8mx0.5m) - 521 m, Vehicle(4.0mx1.5m) - 1597 m
	Identification	9 mm: Human (1.8mx0.5m) - 47 m, Vehicle (4.0mx1.5m) - 144 m 15 mm: Human (1.8mx0.5m) - 78 m, Vehicle (4.0mx1.5m) - 240 m 25 mm: Human (1.8mx0.5m) - 130 m, Vehicle (4.0mx1.5m) - 399 m 35 mm: Human (1.8mx0.5m) - 182 m, Vehicle (4.0mx1.5m) - 559 m 50 mm: Human (1.8mx0.5m) - 260 m, Vehicle (4.0mx1.5m) - 799 m
	Fire Detection	9 mm: Fire (0.2mx0.2m) - 75 m, Fire (1.0mx1.0m) - 375 m 15 mm: Fire (0.2mx0.2m) - 125 m, Fire (1.0mx1.0m) - 625 m 25 mm: Fire (0.2mx0.2m) - 208 m, Fire (1.0mx1.0m) - 1042 m 35 mm: Fire (0.2mx0.2m) - 292 m, Fire (1.0mx1.0m) - 1458 m 50 mm: Fire (0.2mx0.2m) - 417 m, Fire (1.0mx1.0m) - 2083 m

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	Type	4MP IP DUAL SENSOR THERMAL BULLET CAMERA
VISIBLE LENS	Image Sensor	1/1.8" CMOS
	Max.Resolution	2688x1520
	Focal Length	10 ~ 30 mm
	Lens Type	Motorized
	Focus Control	Auto / Manual
	Angle of View (H)	43.3° ~ 15.5°
	Angle of View (V)	23.7° ~ 8.8°
	Angle of View (D)	49.3° ~ 17.8°
	Max. Aperture	F1.6
	Digital Zoom	4x
	Electronic Shutter	1s ~ 1/100,000s, Auto Manual
	Min.Illumination	Color: 0.001 lux @ F1.6, B/W: 0.0001 lux
	AGC	Auto/Manual
	Digital Noise Reduction	2D / 3D DNR, Auto / Manual
	S/N Ratio	≥60 dB
	Defog	Smart Defog
	WDR	120 dB
	Strobe Light	Supported
Smart IR	Up to 100m	
Detection	150 ~ 400 m	
Observation	60 ~ 160 m	
Recognition	30 ~ 80 m	
Identification	15 ~ 40 m	
VIDEO	Video Compression	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (1920x1080, 1280x1024, 1280x720, 640x512) @25fps; Visible: (2688x1520, 1920x1080, 1280x720) @25/30fps Sub Stream: Thermal: (704x576, 640x480, 640x512, 352x288) @25fps; Visible: (704x576, 640x360, 352x288) @25/30fps
	Stream Settings	i-Frame, PAL/NTSC, Frame Rate
	EIS	Supported
	Bit Rate Control	CBR, VBR
	Bit Rate	Thermal: 100 Kbps ~ 8Mbps Visible: 100Kbps ~ 12 Mbps
	Image Settings	Brightness, Contrast, Saturation, Sharpness, Day/Night (Color, Mono, Auto), Flip/Mirror/Rotation, Multiple Scene & Profile
	White Balance	Auto, Day/Night, Tungsten, Fluorescent, Shadow, Manual
	DVE Image Enhance	Supported
	HLC	Supported
	BLC	Supported
	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, 128kbps
	Two Way Audio	Supported
	Audio I/O	1/1
	Built-in Mic	Supported
	Built-in Speaker	Supported
SMART	Behaviour Detection	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal/Visible: Loitering Thermal: Region Entry / Exit Detection, Flame Point Detection Visible: Smoke Detection, Flame Detection
	Statistical Analysis	Thermal/Visible: People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection
	Alarm Management	Motion Detection, Input & Output Event, Network Alarm, Disk Alarm, Day Night Switch Alarm, Abnormal Audio Alarm, Pre/Post Alarm Recording, Alarm Recording/Snapshot, Flashing Light and Sound warning
	Alarm Notification	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording), SD Card (Recording)

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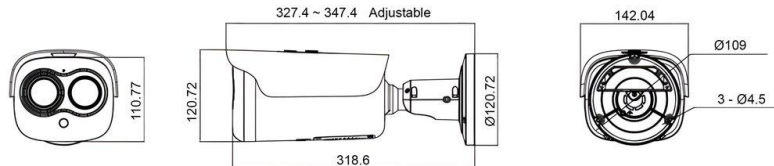
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TEMPERATURE	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
	Measurement range	-20°C ~ 150°C (-4°F ~ 302°F)
INTERFACE	Protocols	TCP/IP, UDP, IPv4, IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP, IGMP V2/V3, 802.1x, QoS, Unicast, Multicast, SNMP, ARP, SSL / TLS 1.2
	Security	AES 128/256 Video 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
	Edge Storage	Micro SD card slot, up to 512 GB
	Alarm I/O	2/2
	Max.User	32
	Client Application	EyeGuard
	Power Supply	12V DC / 24V AC, PoE (IEEE 802.3af)
GENERAL	Max. Power consumption	≤18 W
	Working Temperature	-40 °C ~ 65 °C
	Working Humidity	≤95% RH
	Ingress Protection	IP67
	Vandal Resistant	IK10 (Housing)
	Surge Protection	TVS4000V
	Reset Button	Supported
	Dimensions	(327.4 ~ 347.4)×140.0×120.7 mm
Weight	2.0 kg	

Dimension Unit : mm



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ENC-HBU7M-100R-35

ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HBU7M-100R-35 (With 9 mm Fixed Thermal Lens)	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 9 mm Fixed Thermal lens, 10 to 30 mm Motorized Visible lens, PoE+ and 100m IR Support	1
ENC-HBU7M-100R-35 (With 15 mm Fixed Thermal Lens)	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 15 mm Fixed Thermal lens, 10 to 30 mm Motorized Visible lens, PoE+ and 100m IR Support	1
ENC-HBU7M-100R-35 (With 25 mm Fixed Thermal Lens)	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 25 mm Fixed Thermal lens, 10 to 30 mm Motorized Visible lens, PoE+ and 100m IR Support	1
ENC-HBU7M-100R-35 (With 35 mm Fixed Thermal Lens)	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 35 mm Fixed Thermal lens, 10 to 30 mm Motorized Visible lens, PoE+ and 100m IR Support	1
ENC-HBU7M-100R-35 (With 50 mm Fixed Thermal Lens)	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 50 mm Fixed Thermal lens, 10 to 30 mm Motorized Visible lens, PoE+ and 100m IR Support	1
ENB-BCUV65	Pole Mount Bracket for Norden Bullet Camera	1
ENB-BCUJ67	Junction Box for Norden Bullet Camera	1
ENB-BCUH67	Corner Mount Bracket for Norden Bullet Camera	1

PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HBU7M-100R-35	Carton Box	-	-

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