

4MP THERMAL BULLET CAMERA



ENC-HBU7F-100R-35

FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

Sensitivity $\leq 40\text{mK}$

9/15 mm Fixed Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HBU7F-100R-35
	Type	4MP 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
	Digital Zoom	16x
	Focus Control	Auto focus
	Focal Length	9/15 mm
	F No	F1.0
	Angle of View	9 mm: 48.0° (H), 38.0° (V) 15 mm: 29.0° (H), 23.0° (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
	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
	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
	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

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	Type	4MP THERMAL BULLET CAMERA	
VISIBLE LENS	Image Sensor	1/1.8" CMOS	
	Max.Resolution	2688x1520	
	Focal Length	4 mm for 9 mm Thermal Lens 6 mm for 15 mm Thermal Lens	
	Focus Control	Fixed	
	Angle of View (H)	87.0° (4 mm), 55.0° (6 mm)	
	Angle of View (V)	47.0° (4 mm), 30.0° (6 mm)	
	Angle of View (D)	98.8° (4 mm), 62.6° (6 mm)	
	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	
	VIDEO	Strobe Light	Supported
		Smart IR	Up to 100m
Detection		67.6 m (4 mm), 96.6 (6 mm)	
Observation		27.0 m (4 mm), 38.6 m (6 mm)	
Recognition		13.5 m (4 mm), 19.3 m (6 mm)	
Identification		6.8 m (4 mm), 9.7 m (6 mm)	
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	
SMART	Built-in Speaker	Supported	
	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 and Snapshot), HTTP (Alarm Icon), FTP (Snapshot and Recording), SD Card (Recording)		

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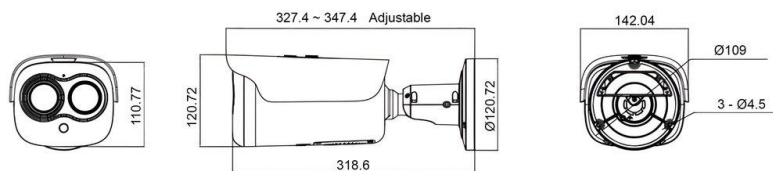
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ENC-HBU7F-100R-35

MODEL	Model No.	ENC-HBU7F-100R-35
	Type	4MP THERMAL BULLET CAMERA
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, 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	≤25 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



ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HBU7F-100R-35 (With 9 mm Fixed Thermal Lens and 4 mm Fixed Visible Lens)	4MP Thermal Bullet Camera with 640*512 Thermal Resolution, 9 mm Fixed Thermal lens, 4 mm Fixed Visible lens, PoE and 100m IR Support	1
ENC-HBU7F-100R-35 (With 15 mm Fixed Thermal Lens and 6 mm Fixed Visible Lens)	4MP Thermal Bullet Camera with 640*512 Thermal Resolution, 15 mm Fixed Thermal lens, 6 mm Fixed 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

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PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HBU7F-100R-35	Carton Box	-	-