

IP THERMAL BULLET CAMERA



ENC-HBU7F-100-35

FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

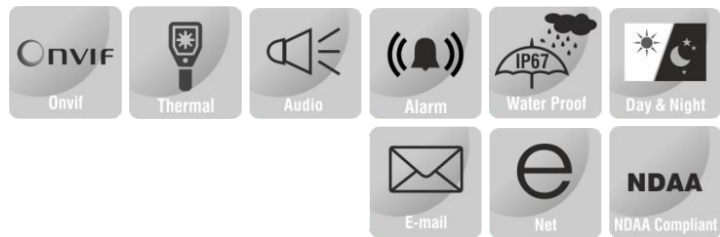
Sensitivity $\leq 40\text{mK}$

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	IP 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	1.0						
	Angle of View	9 mm	15 mm					
		48.0°(H), 38.0°(V)	32.0°(H), 26.0°(V)					
	Thermal imaging **	Object	Human(1.8mx0.5m)		Vehicle(4.0mx1.5m)		Fire(1.0mx1.0m)	
		Lens(mm)	9	15	9	15	9	15
		Detection(m)	375	441	1150	1353	375	441
Recognition(m)		94	110	258	338	125	147	
Identification(m)		47	55	144	169	63	74	

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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° (4mm), 30.0° (6 mm)
	Angle of View (D)	98.8° (4 mm), 62.6° (6 mm)
	Max. Aperture	F1.6
	Digital Zoom	4x
	Shutter Speed	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	
Smart IR	Up to 100m	
VIDEO	Video Compression	H.265+, H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (1280x1024, 1280x1720, 640x512) @25/30fps; Visible: (2688x1520, 1920x1080, 1280x720) @25/30fps Sub Stream: Thermal: (704x576, 352x288) @25/30fps; Visible: (704x576, 640x360, 352x288) @25/30fps
	DIS	Supported
	Bit Rate Control	CBR, VBR
	Bit Rate	Thermal: 100 Kbps ~ 8Mbps Visible: 100Kbps ~ 12 Mbps
	DVE Image Enhance	Supported
	BLC	Supported
	HLC	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	8 kbps, 16kbps
	Two Way Audio	Supported
	Audio I/O	1/1
	Built-in Mic	Supported
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 (Optional -20° ~ 550°C)	
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 Video Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	Compatibility	ONVIF (Profile S, G, T), CGI/SDK
	Network	1x RJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	Alarm I/O	2/2
	Built-in Speaker	Supported
	Max.User	32
	Client Application	EyeGuard
Edge Storage	SD card slot, up to 256 GB	

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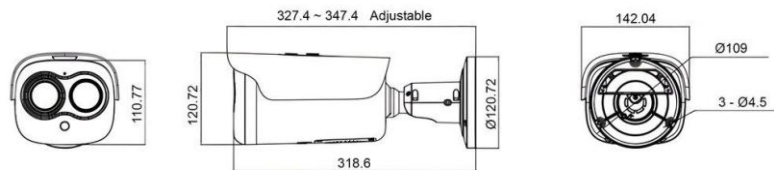
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MODEL	Model No.	ENC-HBU7F-100R-35
	Type	IP THERMAL BULLET CAMERA
SMART	Behaviour Detection	Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Loitering, Region Entry / Exit Detection, Smoke Detection, Flame Detection, Flame Point Detection, Smoker Detection, White Light Flashing and Voice Message Warning
	Statistical Analysis	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
	Alarm Notification	E-mail, HTTP, FTP & Alarm Out (Event Notification/ Recording/ Snapshot upload through E-mail, HTTP, FTP)
GENERAL	Power Supply	DC 12V / AC 24V, PoE (IEEE 802.3af)
	Max. Power consumption	18 W
	Working Temperature	-40 °C ~ 60 °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	4MP IP Dual Sensor Temperature Detection Thermal Bullet Camera with 640*512 Thermal Resolution, 9/15 mm Fixed Thermal lens, 4/6 mm Fixed Visible lens, PoE and 100m IR Support	1

PACKING INFORMATION

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

**The detection ranges may vary in different conditions. Product performance is based on testing in a controlled environment. Results may vary due to several external and environmental factors.

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