

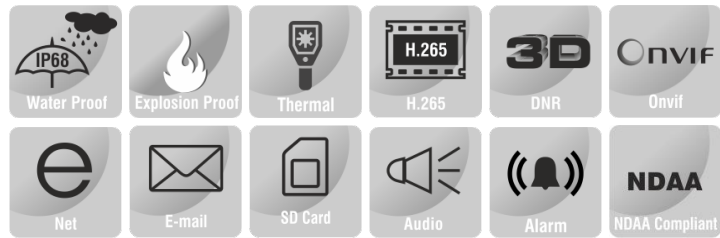
EXPLOSION PROOF THERMAL BULLET CAMERA



ENC-HBU7F-50R-22

FEATURES

- SS316L (Optional SS304L) Stainless Steel Construction
- 256x192 Thermal Resolution
- 7 mm (Optional 3.5 / 10 mm) Fixed Thermal Lens
- ONVIF Profile (S, G, T, M)
- Applicable for GAS Zone 1, Zone 2, Class IIA, IIB, IIC, T1-T6
- Applicable for Temperature Classes T1-T6
- Applicable for Dust Zone 21, 22
- PoE+, IP68



SPECIFICATION

MODEL		ENC-HBU7F-50R-22
Type		EXPLOSION PROOF THERMAL BULLET CAMERA
THERMAL CAMERA	Detector Type	Vanadium Oxide Uncooled VOx Focal Plane Arrays
	Effective Pixels	256x192 and Image can be scaled up to 704x576
	Pixel Size	12 um
	Thermal Sensitivity (NETD)	≤50 mK
	Spectral Range	8~14 um
	Image Setting	Brightness, Sharpness, Contrast, Saturation, 2D/3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
	Iris	Fixed IRIS
	Lens	Fixed
	Focus Control	Auto Focus
Focal Length	7 mm (Optional 3.5 / 10 mm)	
F No.	F1.0	
THERMAL LENS	Angle of View	3.5 mm: 48.0°(H), 36.0°(V) 7 mm: 24.0°(H), 18.0°(V) 10 mm: 17.0°(H), 13.0°(V)
	Detection	3.5 mm: Human (1.8mx0.5m) - 146 m, Vehicle (4.0mx1.5m) - 447 m 7 mm: Human (1.8mx0.5m) - 291 m, Vehicle (4.0mx1.5m) - 894 m 10 mm: Human (1.8mx0.5m) - 416 m, Vehicle (4.0mx1.5m) - 1278 m
	Recognition	3.5 mm: Human (1.8mx0.5m) - 36 m, Vehicle (4.0mx1.5m) - 112 m 7 mm: Human (1.8mx0.5m) - 73 m, Vehicle (4.0mx1.5m) - 224 m 10 mm: Human (1.8mx0.5m) - 104 m, Vehicle (4.0mx1.5m) - 319 m
	Identification	3.5 mm: Human (1.8mx0.5m) - 18 m, Vehicle (4.0mx1.5m) - 56 m 7 mm: Human (1.8mx0.5m) - 36 m, Vehicle (4.0mx1.5m) - 112 m 10 mm: Human (1.8mx0.5m) - 52 m, Vehicle (4.0mx1.5m) - 160 m
	Fire Detection	3.5 mm: Fire (0.2mx0.2m) - 41.7 m, Fire (1.0mx1.0m) - 292 m 7 mm: Fire (0.2mx0.2m) - 83.3 m, Fire (1.0mx1.0m) - 583 m 10 mm: Fire (0.2mx0.2m) - 119.0 m, Fire (1.0mx1.0m) - 833 m

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MODEL	Model No.	ENC-HBU7F-50R-22
	Type	EXPLOSION PROOF THERMAL BULLET CAMERA
VISIBLE CAMERA	Image Sensor	1/2.7" CMOS Progressive 4.0 MegaPixel
	Day / Night	IR Cut Filter with Auto Switch
	Lens Type	Fixed
	Focal Length	4 mm for 3.5 mm Thermal Lens 8 mm for 7 / 10 mm Thermal Lens
	Focus Control	Fixed
	Iris Type	Fixed Auto Iris
	Angle of View (H)	92.0° (4 mm), 40.0° (8 mm)
	Angle of View (V)	46.0° (4 mm), 20.0° (8 mm)
	Angle of View (D)	100.3° (4 mm), 44.7° (8 mm)
	Aperture	4 mm @ F1.6, 8 mm @ F2.0
	Digital Zoom	16x
	Electronic Shutter	1s ~ 1/100,000s, Auto/Manual
	Min. Illumination	Color: 0.001 lux @ F1.6 / F2.0, B/W: 0.0001 lux, 0 lux with IR
	AGC	Auto / Manual
	Digital Noise Reduction	2D & 3D DNR, Auto / Manual
	S/N Ratio	≥55 dB
	Defog	Smart Defog
WDR	120 dB	
Smart IR	Up to 50 m	
Wavelength	850 nm	
VIDEO	Max. Resolution	2880x1620
	Video Compression	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: 704x576 @25/30fps; Visible: (2880x1620, 2560x1440, 2304x1296, 1920x1080, 1280x720) @25fps Sub Stream: (704x576, 352x288, 256x192) @ 25/30fps; Visible: (704x576, 640x480) @25fps
	Stream Settings	i-Frame, PAL/NTSC, Frame Rate
	EIS	Supported
	Bitrate Type	CBR, VBR
	Video Bit Rate	Main Stream: Thermal: 100kbps ~ 3Mbps, Visible: 100kbps ~ 12Mbps Sub Stream: Thermal: 10kbps ~ 3Mbps, Visible: 10kbps ~ 6Mbps
	DVE Image Enhance	Supported
	Image Settings	Brightness, Contrast, Saturation, Sharpness, Day/Night (Color, Mono, Auto), Flip/Mirror/Rotation, Multiple Scene & Profile
	White Balance	Auto, Day / Night, Tungsten, Manual
	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 Mask	Up to 4 regions
	AUDIO	Audio Compression
Audio Bit Rate		64 kbps, 128 kbps
Audio I/O		1/1
SMART	Behavior Detection	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal/Visible: Loitering, Region Entry / Exit Detection Thermal: Flame Point Detection, Smoker 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, Sound-Light Alarm
	Alarm Notifications	E-mail (Notification and Snapshot), HTTP (Alarm Icon), FTP (Snapshot and Recording), SD Card (Recording)
TEMPERATURE	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over / Difference Temperature Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤30ms
	Measurement range	-20°C ~ 150°C (-4°F ~ 302°F)

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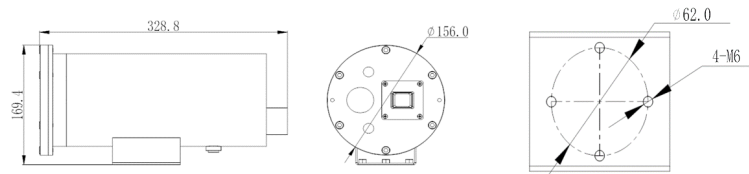
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MODEL	Model No.	ENC-HBU7F-50R-22
	Type	EXPLOSION PROOF THERMAL BULLET CAMERA
INTERFACE	Protocols	TCP/IP, UDP, IPv4, IPv6, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP (SSL/TLS), IGMP, 802.1x, QoS, Unicast, SNMP, ARP
	Security	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	1 x RJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	Alarm I/O	2/2 (Customizable)
	Edge Storage	Micro SD card slot, up to 512 GB
	ANR	Supported
	Built-in Heater	Supported
	Fan	Supported
	Max. User	32
	Web Language	15
	Client Application	EyeGuard
	GENERAL	Power Supply
Max. Power Consumption		≤36W (without heater and fan) ≤25W (PoE)
Working Temperature		-40°C ~ 70°C
Working Humidity		≤95% RH (non-condensing)
Atmospheric Pressure		80 kPa ~ 110 kPa
Window Glass		Strong Tempered Glass
Ingress Protection		IP68
Surge Protection		TVS6000V
Reset Button		Supported
Dimensions		328.8x156.0x169.4 mm
Net Weight	6.3 kg	

Dimension Unit : mm



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EXPLOSION PROOF THERMAL BULLET CAMERA



ENC-HBU7F-50R-22

ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 3.5 mm,4 mm Visible Lens with 50m IR and 100 ~ 240V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 3.5 mm Fixed Thermal Lens , 4 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 7 mm,8 mm Visible Lens with 50m IR and 100 ~ 240V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 7 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 10 mm,8 mm Visible Lens with 50m IR and 100 ~ 240V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 10 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 3.5 mm,4 mm Visible Lens with 50m IR and 24V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 3.5 mm Fixed Thermal Lens , 4 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 7 mm,8 mm Visible Lens with 50m IR and 24V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 7 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 10 mm,8 mm Visible Lens with 50m IR and 24V AC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 10 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 3.5 mm,4 mm Visible Lens with 50m IR and 24V DC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 3.5 mm Fixed Thermal Lens , 4 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 7 mm,8 mm Visible Lens with 50m IR and 24V DC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 7 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENC-HBU7F-50R-22 (With 256*192 Thermal Resolution 10 mm,8 mm Visible Lens with 50m IR and 24V DC)	4MP SS316L Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 10 mm Fixed Thermal Lens , 8 mm Visible Fixed Lens, 50m IR and SD card slot Support	1
ENB-BZUW68	Wall Mount Bracket for Norden Explosion Proof Bullet Camera	1
ENB-BZUV68	Pole Mount Bracket for Norden Explosion Proof Bullet Camera	1
ENB-BZDH68	Corner Mount Bracket for Norden Explosion Proof Dome Camera	1

PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HBU7F-50R-22	Carton Box	-	-

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