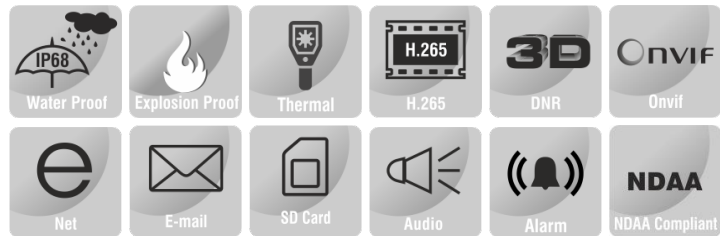


EXPLOSION PROOF THERMAL BULLET CAMERA

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 | 12um |
| | Thermal Sensitivity (NETD) | ≤50 mK |
| | Spectral Range | 8~14um |
| | 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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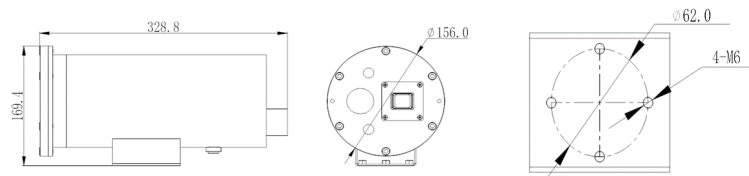
| MODEL | Model No. | ENC-HBU7F-50R-22 |
|----------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Type | 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, SVC |
| | 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, Smoke Detection, Flame Detection, Flame Point Detection, Smoker Detection, White Light Flashing and Voice Message Warning |
| | 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) |

EXPLOSION PROOF THERMAL BULLET CAMERA

ENC-HBU7F-50R-22

| MODEL | | 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 |
| | Edge Storage | SD card slot, up to 512 GB |
| | ANR | Supported |
| | Built-in Heater | Supported |
| | Fan | Supported |
| | Max. User | 32 |
| | 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



ORDERING INFORMATION

| Part Number | Description | Standard Quantity |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| ENC-HBU7F-50R-22 | 4MP SS316L (optional SS304) Explosion-proof IR IP Thermal Bullet camera with 256*192 Thermal Resolution, 7 mm (Optional 3.5 / 10 mm) Fixed Thermal Lens , 4/8 mm Visible Fixed Lens, 50m IR and SD card slot Support | 1 |
| ENB-BZUW68 | Wall Mount Bracket for Norden Explosion / Corrosion Proof Bullet Camera | 1 |
| ENB-BZUV68 | Pole Mount Bracket for Norden Explosion / Corrosion Proof Bullet Camera | 1 |
| ENB-BZDH68 | Corner Mount Bracket for Norden Explosion / Corrosion Proof Dome Camera | 1 |

PACKING INFORMATION

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