



Network

Multi-sensor

TNM-C3620TDR

Bi-Spectrum AI Thermal Camera



Key Features

- Bi-spectrum monitoring with 2MP visible & QVGA thermal
- AI based Object classification with visible channel only (person)
- Remote Temperature Monitoring within -20 ~ 130°C range
- 6 of quadrangle ROI areas for temperature monitoring
- Compact and Light-weight for Indoor purpose

TNM-C3620TDR

Bi-Spectrum AI Thermal Camera



Specifications

| Video | Thermal | Visible |
|-----------------------------|--|--|
| Imaging Device | Uncooled micro bolometer (320x240) | 1/2.8" 2MP CMOS |
| Resolution | 1280x960, 640x480, 320x240(Original) | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz) | |
| NETD | <50mK | |
| Pixel Size | 12µm | |
| Min. Illumination | Color: 0.05 lux(F1.6, 1/30sec) B/W: 0.005 lux(F1.6, 1/30sec) | |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB : Micro USB Type B, 1280x720 for installation | |
| Lens | | |
| Focal Length (Zoom Ratio) | 4.7mm fixed focal | 4mm fixed focal |
| Max. Aperture Ratio | F1.0 | F1.6 |
| Angular Field of View | H: 50.0-, V: 36.4-, D: 65.3- (iFoV: 2.553 mRad) | H: 87.6, V: 46.4°, D: 104.5° |
| Min. Object Distance | 1m(3.28ft) | |
| Focus Control | Fixed | Fixed |
| Operational | | |
| Camera Title | Displayed up to 17 characters | |
| Day & Night | Auto(ICR) | |
| Backlight Compensation | BLC, WDR, SDR | |
| Wide Dynamic Range | extremeWDR(150dB) | |
| Digital Noise Reduction | SSNR V | |
| Digital Image Stabilization | Support(built-in gyro sensor) | |
| Motion Detection | 8ea, 8point polygonal zones | |
| Privacy Masking | 24ea, polygonal zones - Color: Grey/Green/Red/Blue/Black/White - Mosaic | |
| Gain Control | Low / Middle / High | |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor | |
| LDC | Support | |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker(2~1/12,000sec) | |
| Video Rotation | Flip, Mirror | |
| Analytics | Directional detection, Motion detection, Enter/Exit, Virtual line, Temperature detection | Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection AI based Object detection (person/face, visible channel only) |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com

Hanwha Vision is formerly known as Hanwha Techwin.

| | |
|-----------------------------------|--|
| Alarm I/O | Input 1ea / Output 2ea |
| Alarm Triggers | Analytics, Network disconnect, Alarm input, MQTT subscription |
| Alarm Events | When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset - MQTT: publication |
| Audio In | Selectable(mic in/line in) |
| Audio Out | Line out |
| Color Palettes | Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom |
| Radiometry | |
| Temperature Detect Range | -20~+130°C (-4-F~+266-F) |
| Temperature Accuracy | ±5-C(≤100-C), ±20%(>100-C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. |
| Temperature Detection | 6 Quadrangle ROI zones, whole FoV area |
| Additional | Hybrid palettes, Spot temperature reading |
| Network | |
| Ethernet | Metal shielded RJ-45(10/100BASE-T), RJ-45(10/100BASE-T) |
| Video Compression | H.265/H.264: Main/Baseline/High, MJPEG |
| Audio Compression | G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| Smart Codec | WiseStream II Manual(5ea area), WiseStream II |
| Video Quality Adjustment | H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(20 users) / Multicast Multiple streaming(Up to 6 profiles) |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF Profile S/T/M SUNAPI(HTTP API) |
| Security | |
| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| User authentication | Digest Authentication |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) |
| Secure Communication | HTTPS, WSS(WebSocket Secure) |
| Access Control | IP-based access control |
| Data Protect | Encryption Credentials, Encrypt compress for live recording file |
| Audit | Access / System / Event Log management |
| Device ID | Device Certificate(Hanwha Private Root CA) |
| Secure Storage | HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt |
| Security Certificate | TPM with FIPS 140-2 level 2 |
| General | |

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|---------------------------------------|--|
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB |
| Memory | 4608MB RAM, 512MB Flash |
| Environmental & Electrical | |
| Operating Temperature / Humidity | -10°C~+55°C(+14°F~+131°F) / Less than 95% RH |
| Storage Temperature / Humidity | -30°C~+60°C(-22°F~+140°F) / Less than 95% RH |
| Input Voltage | PoE+(IEEE802.3at, Class4), 12VDC |
| Power Consumption | PoE+: Max. 17.0W, typical 12.5W 12VDC: Max. 14.5W, typical 11.0W |
| Mechanical | |
| Color / Material | White / Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | 135(W)x75(H)x188.5(D)mm, (5.31x2.95x7.42"), 1.7kg(3.77lb) |
| Ceiling Mount (Assy) | SBP-142CMW |
| Wall Mount | SBP-142WMW |
| Certifications & Standards | |
| EMC | EN 55032:2015/A11:2020 CLASS A EN 50130-4:2011/A1:2014 CLASS A EN 61000-3-2:2014 CLASS A EN 61000-3-3:2013 CLASS A 47 CFR Part 15, Subpart B ANSI C63.4 2014 CLASS A IC Regulation ICES 003 : 2016 ANSI C63.4 2014 CLASS A VCCI CISPR 32: 2016 CLASS A |
| Safety | UL/CSA 62368-1 KC 62368-1 |
| Environment | IEC/EN 63000 |

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CAD

Unit:mm [inch]

