

Network

# TNO-X6320E2F2WT1-C

Explosion-proof Zoom Camera

## Key Features

- 1080p @ 60fps
- 32x optical zoom with auto focus
- Multiple streaming
- Intelligent video analytics, wiper, fiber
- Wide Dynamic Range (125dB)
- Built-in dual micro SD/SDHC/SDXC memory slots
- 110VAC Power

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# TNO-X6320E2F2WT1-C

Explosion-proof Zoom Camera



## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2.8" |
| | Type | CMOS |
| **Resolution** | | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| **Max. Framerate** | H.265/H.264 | 60fps/50fps(60Hz/50Hz) |
| | MJPEG | 30fps |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.05 |
| | BW(1/30sec, 30IRE) | 0.005 |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 4.44~142.6 |
| **Zoom Ratio** | Optical | 32x |
| | Digital | 32x |
| **Max Aperture Ratio (F number)** | Wide | 1.6 |
| | Tele | 4.4 |
| **Angular Field of View** | Horizontal | 64.66°~2.29° |
| | Vertical | 38.08˚~1.30˚ |
| **Min. Object Distance** | | 1.5m (4.92ft) |
| **Focus Control** | | Auto, Manual, Oneshot AF |
| **Lens Type** | | DC auto iris |
| **Mount Type** | | Board-in Type |

### Pan / Tilt / Rotate

| | |
|---|---|
| **Sequence** | Preset(255ea) |

### Operational

| | |
|---|---|
| **Day & Night** | Auto(ICR) |
| **Backlight Compensation** | BLC, HLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | 150 |
| **Digital Noise Reduction** | SSNR V |

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## Operational

| | | |
|---|---|---|
| **Digital Image Stabilization** | | Support(built-in gyro sensor) |
| **Defog** | | Support |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 24ea |
| | Shape | Rectangular zones |
| | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic |
| **Gain Control** | | Low, Middle, High, Off |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker |
| | Speed Range | 1~1/12,000sec |
| **Video Rotation** | | Flip, Mirror |
| **Alarm Triggers** | | Analytics, Network disconnect |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(video clip): FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,<br>Handover: PTZ preset |

## Analytics

| | | |
|---|---|---|
| **Analytics Events** | Normal | Motion detection, Tampering, Fog detection, Face detection, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) |

## Network

| | | |
|---|---|---|
| **Ethernet** | | RJ-45(10/100BASE-T) / Duplex single mode 9/125μm module (F2 models) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/Baseline/High,MJPEG |
| **Smart Codec** | | Manual, WiseStream II |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 20 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 10 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), PPPoE |
| **Application Programming Interface** | ONVIF | S, G, T |
| | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |

## Security

| | |
|---|---|
| **User authentication** | Digest authentication |
| **Network authentication** | IEEE 802.1X(EAP-TLS, EAP-LEAP) |
| **Access Control** | IP-based access control |

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## Security

| | | |
|---|---|---|
| **Audit** | | Access / System / Event Log management |

## General

| | | |
|---|---|---|
| **Memory** | RAM | 1GB |
| | Flash | 256MB |
| **Edge Storage** | Micro SD/SDHC/SDXC | Max. 256GB x 2slot(Total 512GB) |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -40°C~+60°C(-40°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Input Voltage** | | 110VAC |
| **Power Consumption** | 110VAC | Max. 37W |

## Mechanical

| | |
|---|---|
| **Color** | Silver |
| **Material** | Stainless(STS316L) |
| **Product Dimensions** | 176x154x720mm(6.93x6.06x28.35") |
| **Product Weight** | 21Kg (46.3lb) |

## Certifications & Standards

| | |
|---|---|
| **Environment** | IEC 60529 IP66, IEC 60529 IP67, INMETRO, cLCus C1/D1, cLC CSA |

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