



Network

## TNU-6324E

2M Explosion-proof Camera



### Key Features

- Max. 2MP (1920 x 1080) resolution
- H: 64.66°(Wide)~2.29°(Tele) / V: 38.08°(Wide)~1.30°(Tele)
- Max. 60fps@2MP (H.265, H.264)
- H.265, H.264, MJPEG codec, WiseStream II
- Day & Night (Auto ICR), WDR (120dB)
- Pan/Tilt : 0.1°/sec ~40°/sec, Endless rotation, Preset (300ea)
- Explosion-proof certificate: IECEx, ATEX, KCs, KC, CE/UKCA
- Stainless 316L, Built-in wiper
- IP67, IK10

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2M Explosion-proof 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          |
| Max Aperture Ratio (F number) | Wide       | 1.6          |
|                               | Tele       | 4.4          |
| Angular Field of View         | Horizontal | 61.8°~2.19°  |
|                               | Vertical   | 36.2°~1.24°  |
| Min. Object Distance          |            | 1.5m(4.92ft) |
| Focus Control                 |            | Oneshot AF   |
| Lens Type                     |            | DC auto iris |

### Pan / Tilt / Rotate

|                           |        |                                                                   |
|---------------------------|--------|-------------------------------------------------------------------|
| Pan / Tilt / Rotate Range | Pan    | 360° Endless                                                      |
|                           | Tilt   | 180°(-90° ~90°)                                                   |
| Pan Speed                 | Manual | 0.5°/sec ~80°/sec                                                 |
| Tilt Speed                | Manual | 0.1°/sec~60°/sec                                                  |
| Sequence                  |        | Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule |
| Preset Accuracy           |        | ±0.25°                                                            |

### Operational

|                     |         |
|---------------------|---------|
| Direction Indicator | Support |
|---------------------|---------|

## Operational

|                                          |             |                                                                                                                               |
|------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| Day & Night                              |             | Auto(ICR)                                                                                                                     |
| Backlight Compensation                   |             | BLC, HLC, WDR, SSDR                                                                                                           |
| Wide Dynamic Range (dB)                  |             | 120                                                                                                                           |
| Digital Noise Reduction                  |             | SSNR V                                                                                                                        |
| Digital Image Stabilization              |             | Support                                                                                                                       |
| Defog                                    |             | Support                                                                                                                       |
| Motion Detection                         | Quantity    | 8ea                                                                                                                           |
|                                          | Shape       | 8point Polygonal zones                                                                                                        |
| Gain Control                             |             | Low, Middle, High                                                                                                             |
| White Balance                            |             | ATW, AWC, Manual, Indoor, Outdoor                                                                                             |
| Electronic Shutter                       | Mode        | Minimum, Maximum, Anti flicker                                                                                                |
|                                          | Speed Range | 1~1/12,000sec                                                                                                                 |
| Alarm Interface                          | In/Out      | Input 1ea, Output 1ea                                                                                                         |
| Alarm Triggers                           |             | Analytics, Network disconnect, Alarm input                                                                                    |
| Alarm Events When Alarm Trigger Occurred |             | File upload(image): e-mail/FTP,<br>Notification: e-mail,Alarm output,<br>Handover: PTZ preset,NAS recording at event triggers |
| Water Removal                            |             | Support(with Wiper)                                                                                                           |

## Analytics

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

## Network

|                                   |                    |                                                                                                                                                                                      |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | RJ-45(10/100BASE-T)                                                                                                                                                                  |
| Video Compression                 |                    | H.265/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, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, PIM-SM |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                              |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                        |

## Security

|                       |  |                       |
|-----------------------|--|-----------------------|
| OS / Firmware Protect |  | Encrypted firmware    |
| User authentication   |  | Digest authentication |

## Security

|                        |                                        |
|------------------------|----------------------------------------|
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP)         |
| Secure Communication   | HTTPS                                  |
| Access Control         | IP-based access control                |
| Audit                  | Access / System / Event Log management |

## General

|        |       |       |
|--------|-------|-------|
| Memory | RAM   | 1GB   |
|        | Flash | 256MB |

## Environmental & Electrical

|                     |             |                           |
|---------------------|-------------|---------------------------|
| Operating Condition | Temperature | -40°C~+60°C(-40°F~+140°F) |
|                     | Humidity    | 0~95% RH(non-condensing)  |
| Storage Condition   | Temperature | -30°C~+60°C(-22°F~+140°F) |
|                     | Humidity    | 0~95% RH(non-condensing)  |
| Input Voltage       |             | 110VAC, 220VAC            |
| Power Consumption   | 110VAC      | 1.4A, Max. 87W            |

## Mechanical

|                    |                                           |
|--------------------|-------------------------------------------|
| Color              | Silver                                    |
| Material           | Stainless(STS316L)                        |
| Product Dimensions | 611(W)x438(H)x235(D)mm(24.06x17.24x9.25") |
| Product Weight     | 36kg(79.37lb)                             |

## Certifications & Standards

|             |                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Environment | IEC 60529 IP67, IEC 62262 IK10, ATEX II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db, IECEx Ex db IIC T6 Gb, Ex tb IIIC T80°C Db, KCs |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|

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CAD

Unit: mm [inch]

