



Network

## TNO-6322ER

2MP Explosion-proof Camera



### Key Features

- Max. 2MP (1920 x 1080) resolution
- H: 61.8°(Wide)~2.19°(Tele) / V: 36.2°(Wide)~1.24°(Tele) Field of View
- Max. 60fps/50fps (60Hz/50Hz)
- H.265, H.264, MJPEG codec, WiseStream II
- IR viewable length 70m
- Day & Night (Auto ICR), WDR (120dB)
- Explosion-proof certificate: IECEx, ATEX, KCs, PESO
- Stainless 316L, Built-in wiper
- IP67, IK10

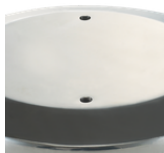
### Compatible Devices



SBE-100PM



SBE-100WM



SBE-100B

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2MP 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     | Tilt                  | 35°~90°                                                                                                           |
| Operational                   |                       |                                                                                                                   |
| Direction Indicator           |                       | Support                                                                                                           |
| Day & Night                   |                       | Auto(ICR)                                                                                                         |
| Backlight Compensation        |                       | BLC, HLC, WDR, SDR                                                                                                |
| Wide Dynamic Range (dB)       |                       | 120                                                                                                               |
| Digital Noise Reduction       |                       | SSNR V                                                                                                            |
| Digital Image Stabilization   |                       | Support                                                                                                           |

## Operational

|                                          |             |                                                                                                                                |
|------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| 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,NAS recording at event triggers,<br>Handover: Zoom preset |
| Audio In                                 |             | Selectable(mic in/line in)                                                                                                     |
| Audio Out                                |             | Line out                                                                                                                       |
| Light Type                               |             | IR LED                                                                                                                         |
| Light Viewable Length                    | IR          | 70m(229.66ft)                                                                                                                  |
| IR Wavelength                            |             | 850nm                                                                                                                          |
| Water Removal                            |             | Support(with Wiper)                                                                                                            |

## Analytics

|                  |        |                                                                                                                                                                                                    |
|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events | Normal | Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio 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                                                                                                                                                     |
| Audio Compression                 |                    | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz                                                              |
| 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,<br>SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS,<br>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                  |
| 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 | IR Off: -40°C~+60°C(-40°F~+140°F),<br>IR On: -40°C~+55°C(-40°F~+131°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       |             | 24VAC                                                                  |
| Power Consumption   | 24VAC       | Max. 45W                                                               |

## Mechanical

|                    |                                            |
|--------------------|--------------------------------------------|
| Color              | Silver                                     |
| Material           | Stainless(STS316L)                         |
| Product Dimensions | 175(W)x242.5(H)x320(D)mm(6.89x9.59x12.59") |
| Product Weight     | 11.5kg(25.35lb)                            |

## Certifications & Standards

|             |                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment | IEC 60529 IP67, IEC 62262 IK10, ATEX II 2 G Ex db op is IIC T6 Gb, II 2 D Ex tb op is IIIC T85°C Db, IECEX Ex db op is IIC T6 Gb, Ex tb op is IIIC T85°C Db, KCs |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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2MP Explosion-proof Camera



CAD

Unit: mm [inch]

