

# TVD-5720

**TruVision IP Outdoor Dome, 8MP/4K, Super Low Light, 8 to 32 mm lens, 50 m IR, PoE+ (802.3-at)/12 VDC, Heater, IP67, IK10**

## Overview

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The TruVision Series 7 IP outdoor dome cameras with smart event capabilities available in 2, 4, 8 and 12MP resolution deliver high-quality images thanks to their extreme low light sensitivity and enhanced image processing. The rich set of features make these cameras the ideal choice for demanding security, surveillance and monitoring applications.

The cameras support up to 10 configurable video streams which allow users to optimize the camera's remote live view capabilities while controlling the bandwidth usage. The motorized varifocal lens with P-iris technology allows users to remotely adjust the zoom level and focus to get crisp images anytime anywhere. In addition to the compatibility with other TruVision products and 3rd party VMS software, the cameras also support NAS recording or local MicroSD card recording to protect data in the event of network disruptions.

The enhanced embedded video intelligence capabilities go above and beyond standard event detection allowing operators to receive real-time event notifications and reduce the time needed for post-incident investigation.



## Details

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- Maximum resolution: 3840 × 2160
- H.265, H.264 and MJPEG compression
- 10 independent configurable video streams
- Motorized zoom lens 8 to 32 mm with auto-focus
- P-iris
- ONVIF Profiles S, G and T
- Rich video intelligence (VCA)
- Up to 50 m IR illumination
- Up to 120 dB Wide Dynamic Range
- Edge recording up to 256 GB with optional SD card

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## Technical specifications

### General

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Technology             | IP                                                                                  |
| Video standard         | NTSC, PAL                                                                           |
| Image settings         | De-Fog, Electronic Image Stabilization, Hallway View, Mirror                        |
| Privacy masking        | 8 zones                                                                             |
| Video output           | BNC Composite PAL / NTSC                                                            |
| Software compatibility | Milestone XProtect, OnGuard, TruVision Navigator, TVRmobile, UltraView, Web Browser |

### Camera

|                 |                  |
|-----------------|------------------|
| Sensor size     | 1/1.8"           |
| Max. resolution | 8 MP (4K)        |
| Sensor scan     | Progressive      |
| Sensor type     | CMOS             |
| Shutter time    | 1 to 1/100,000 s |

### Lighting performance

|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| WDR type                | True WDR                                                                     |
| WDR                     | 120 dB                                                                       |
| Digital noise reduction | 3D DNR                                                                       |
| Day/night               | True Day/Night                                                               |
| Motorized IR cut filter | Yes                                                                          |
| Color sensitivity       | Color: 0.007 Lux @ (F1.2, AGC ON), 0.016 Lux @ (F1.8, AGC ON), 0 Lux with IR |
| B/W trigger             | Auto/Schedule/Triggered by alarm in                                          |
| Infrared (IR)           | Yes                                                                          |
| IR range                | Up to 50 m                                                                   |

### Encoding

|                                |                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------|
| Video streams                  | 10                                                                                           |
| Main stream compression        | H.264, H.265                                                                                 |
| Sub stream compression         | H.264, H.265, MJPEG                                                                          |
| Third stream compression       | H.264, H.265, MJPEG                                                                          |
| Video bit rate                 | 32 to 16 Mbps                                                                                |
| Main stream resolutions        | 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 3200 x 1800, 3840 x 2160                |
| Sub stream resolutions         | 640 x 480 (VGA), 704 x 576 (4CIF)                                                            |
| Third stream resolutions       | 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 640 x 480 (VGA), 704 x 576 (4CIF) |
| Max. resolution @ fps          | 3840 x 2160 @ 25/30 fps                                                                      |
| 4th to 10th stream compression | H.265, H.264, MJPEG                                                                          |
| 4th stream resolutions         | 1920 x 1080 (1080p), 1280 x 720 (XVGA), 704 x 576 (4CIF), 640 x 480 (VGA)                    |
| 5th stream resolutions         | 704 x 576 (4CIF), 640 x 480 (VGA)                                                            |
| 6th to 10th stream resolutions | 1920 x 1080 (1080p), 1280 x 720 (XVGA), 704 x 576 (4CIF), 640 x 480 (VGA)                    |

### Lens

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| Lens type      | Varifocal motorized                                                                            |
| Focal length   | 8 to 32 mm, Horizontal FoV 39° to 15.6°, Vertical FoV 21.8° to 8.9°, Diagonal FoV 45° to 17.8° |
| Auto iris      | Yes                                                                                            |
| Auto focus     | Yes                                                                                            |
| Motorized zoom | Yes                                                                                            |

### Network

|                             |                                                                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network interface           | RJ-45 10/100 Mbps self-adaptive Ethernet interface                                                                                                                                                                                                                                            |
| Integration                 | CGI, ISAPI, ONVIF Profile G, ONVIF Profile S, ONVIF Profile T                                                                                                                                                                                                                                 |
| Supported network protocols | 802.1x, Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UPnP                                                                                                                                                        |
| Security                    | Password protection, HTTPS encryption, 802.1x authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2 |

### Audio

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Audio compression | G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, MP3, PCM |
| Audio in          | 1 line in/mic.in                                      |
| Audio out         | 1 line out                                            |

### Alarm I/O

|                      |                               |
|----------------------|-------------------------------|
| Alarm inputs         | 1                             |
| Alarm outputs        | 1 output (24 VAC/VDC, 1A max) |
| Alarm I/O connection | Terminal blocks               |

### Storage

|                            |                                       |
|----------------------------|---------------------------------------|
| Local storage support      | Yes                                   |
| Local storage type         | Built-in Micro SD/SDHC/SDXC card slot |
| Max. SD card capacity      | 256 GB                                |
| Additional storage options | NAS (NFS,SMB/CIFS)                    |

### Video intelligence

|               |                                                                                                                                                                                                                                                                  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm trigger | HDD error, HDD full, Invalid login, IP address conflict, Network disconnected                                                                                                                                                                                    |
| ROI           | Up to 4 fixed regions for one of 5 the first streams<br>Dynamic region for face tracking                                                                                                                                                                         |
| Smart event   | Advanced motion detection, Audio exception detection, Defocus, Face detection, Intrusion detection, Line crossing detection, Object removal detection, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection |

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## Electrical

|                   |                                                                                                                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage | 12 VDC is recommended, 10 to 48 VDC, two-core terminal block PoE (802.3at, class 4), reverse polarity protection                                                                                                                |
| Power consumption | 12 VDC, 1.20 A, max. 15 W; PoE (802.3at, 42.5 V to 57 V), 0.40 A to 0.30 A, class 4<br>With external load connected to camera power output: 12 VDC, 1.40 A, max. 17 W; PoE (802.3at, 42.5 V to 57 V), 0.40 A to 0.30 A, class 4 |

## Physical

|                     |                                 |
|---------------------|---------------------------------|
| Physical dimensions | Φ162 x 140 mm<br>Φ6.4 x 5.5 in. |
| Net weight          | 1400 g<br>3.08 lb.              |
| Colour              | Grey                            |
| Form Factor         | Dome                            |

## Environmental

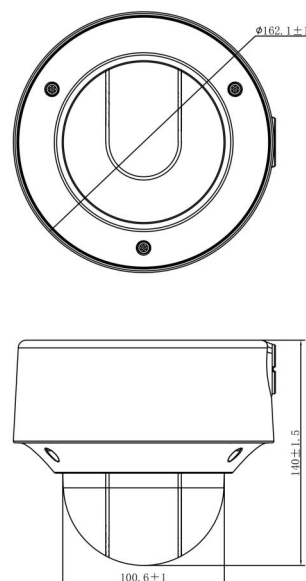
|                       |                               |
|-----------------------|-------------------------------|
| Impact rating         | IK10                          |
| Environment           | Outdoor                       |
| Operating temperature | -40 to +65°C<br>-40 to +149°F |
| Relative humidity     | <95% noncondensing            |
| IP rating             | IP67                          |
| Internal heater       | Yes                           |

## Regulatory

|            |                                |
|------------|--------------------------------|
| Compliance | CE, FCC, REACH, RoHS, UL, WEEE |
|------------|--------------------------------|

## Accessories

|            |                                                        |
|------------|--------------------------------------------------------|
| TVD-CB9    | TruVision Cup Base for S7 outdoor dome camera          |
| TVD-BS-8CV | TruVision transparent spare bubble for S7 outdoor dome |
| TVD-BS-8SV | TruVision smoked spare bubble for S7 outdoor dome      |



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