

# TVB-5604H

**TruVision 2MPx, H.265/H.264, IP VF Bullet Camera w/ cable harness, 2.8 to 12 mm motorized, True D/N, WDR, 50m IR, Audio, I/Os, Micro SD/SDHC/SDXC Slot, PoE+ (802.3-at)/12VDC, IP67,**

## Overview

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The TruVision Series 6 line of IP bullet cameras leverages the latest H.265 video compression technology to bring state-of-the-art, high-definition pictures to the mass video surveillance market. With video resolutions from 2 megapixel to 4K, these IP cameras represent a flexible video surveillance device to meet any need. Equipped with advanced technology and signal processing capability, they effectively capture video under challenging conditions.

TruVision cameras utilize H.265 and/or H.264 compression technology with triple-streaming capability, making it easy to manage the camera's bandwidth usage. Motorized varifocal lens technology allows the user to remotely adjust the varifocal lens and focus the camera with the touch of a button. Recording to a local MicroSD card (not included) protects data in the event of network disruptions.

These cameras go above and beyond standard motion detection with enhanced alarm capabilities, including cross line detection, intrusion detection and face detection features. Each is user-configurable to best suit the installation environment. A Region of Interest function (ROI) ensures specific portions of an image are given priority during instances of high network traffic or network degradation.



## Details

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- Maximum Resolution: 1920 x 1080
- H.265 and/or H.264 compression with triple-streaming functionality
- Motorized zoom lens 2.8 to 12 mm
- Motorised IR Cut Filter
- ONVIF Profile G and S open standards
- Edge recording up to 128 GB SDHC card
- Up to 50 m IR illumination
- Up to 120 dB Wide Dynamic Range
- Video intelligence: face detection, intrusion detection, cross line detection

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## Technical specifications

### General

|                        |  |
|------------------------|--|
| Technology             | IP   |
| Video standard         | NTSC, PAL  |
| Display modes          | Hallway View, Mirror, ROI (Region Of Interest)                         |
| Video output           | BNC Composite PAL / NTSC   |
| Software compatibility | OnGuard, Prism, TruVision Navigator, TVRmobile, UltraView, Web Browser |

### Camera

|                   |                    |
|-------------------|--------------------|
| Sensor size       | 1/2.7"             |
| Max. resolution   | 2 MPX              |
| Sensor scan       | Progressive        |
| Sensor type       | CMOS               |
| Digital S/N ratio | 50 dB (AGC Off)    |
| Shutter time      | 1/3 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       | 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON) |
| B/W sensitivity         | 0 lux with IR on                                      |
| B/W trigger             | Auto/Schedule/Triggered by alarm in                   |
| Infrared (IR)           | Yes   |
| IR range                | Up to 50 m  |

### Encoding

|                          |  |
|--------------------------|--|
| Video streams            | 3  |
| Main stream compression  | H.264, H.265   |
| Sub stream compression   | H.264, H.265, MJPEG  |
| Third stream compression | H.264, H.265   |
| Video bit rate           | 32 to 16 Mbps  |
| Main stream resolutions  | 1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p)                |
| Sub stream resolutions   | 320 x 240 (QVGA), 640 x 360 (nHD), 640 x 480 (VGA), 704 x 576 (4CIF)     |
| Third stream resolutions | 1280 x 720 (XVGA), 1920 x 1080 (1080p), 352 x 288 (CIF), 640 x 360 (nHD) |
| Max. resolution @ fps    | 1920 x 1080 @ 25/30 fps  |

### Lens

|                |  |
|----------------|--|
| Lens type      | Varifocal  |
| Focal length   | 2.8 to 12 mm (horizontal FOV: 110 to 31°, vertical FOV: 58 to 18°, diagonal FOV: 136 to 36°) |
| f-stop         | F1.6   |
| Auto focus     | Yes  |
| Motorized zoom | Yes  |

### Network

|                             |  |
|-----------------------------|--|
| Network interface           | RJ-45 10/100 Mbps self-adaptive Ethernet interface   |
| Integration                 | ONVIF Profile G, ONVIF Profile S   |
| 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 |

### Audio

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

### Alarm I/O

|                      |                         |
|----------------------|-------------------------|
| Alarm inputs         | 1                       |
| Alarm outputs        | 1 (up to 12 VDC, 30 mA) |
| Alarm I/O connection | Terminal block          |

### Storage

|                       |                                       |
|-----------------------|---------------------------------------|
| Local storage support | Yes                                   |
| Local storage type    | Built-in Micro SD/SDHC/SDXC card slot |
| Max. storage capacity | 128 GB                                |

### Video intelligence

|                 |  |
|-----------------|--|
| Alarm trigger   | HDD error, HDD full, Illegal login, IP address conflict, Motion detection, Network disconnected, Video tampering |
| ROI             | Support 1 fixed region for main stream and sub-stream  |
| Video analytics | Advanced motion detection, Face detection, Intrusion detection, Line crossing detection                          |

### Electrical

|                     |   |
|---------------------|---|
| Operating voltage   | 12 VDC ± 25%, terminal block / PoE+ (IEEE 802.3at, class 4) |
| Power consumption   | max. 14.5 W @ 12 VDC<br>max. 18 W @ PoE+ (42.5 to 57.0 V)   |
| Current consumption | 1.2 A @ 12 VDC<br>0.4 to 0.3 A @ PoE                        |

### Physical

|                     |                                    |
|---------------------|------------------------------------|
| Physical dimensions | 105 x 333.8 mm<br>4.13 x 13.14 in. |
| Net weight          | 1.285 kg<br>2.8 lbs.               |
| Colour              | Grey                               |
| Form Factor         | Bullet                             |

### Environmental

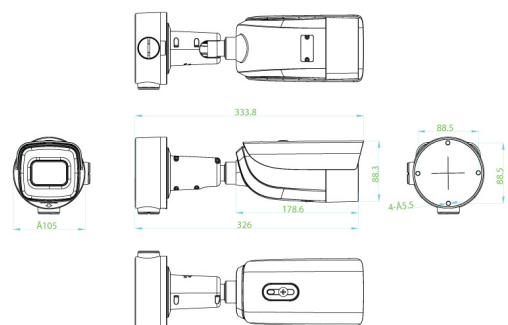
|                       |                               |
|-----------------------|-------------------------------|
| Vandal proof          | Yes                           |
| Impact rating         | IK10                          |
| Environment           | Outdoor                       |
| Operating temperature | -30 to +60°C<br>-22 to +140°F |
| Relative humidity     | <95% (non-condensing)         |
| IP rating             | IP67                          |

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## Regulatory

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



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