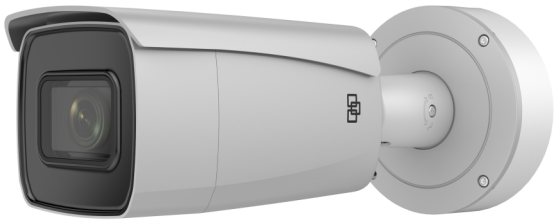
# TVLP-S01-0401-BUL-G

**TruVision ANPR camera, 4MP, 2.8 to 12 mm, 50 m IR, Wiegand, IP67, IK10, PoE+ (802.3-at) / 12 VDC**

## Overview

The new range of ANPR cameras complete our TruVision line with solutions that help you facilitate management of vehicles. The S series ANPR cameras allow you to monitor or manage vehicle access on a site. The cameras can either monitor and capture vehicles entering your premises or manage parking access for vehicles based on their license plate.



## Standalone operation

In standalone operation where the camera is used to grant access to vehicles, the license plates stored in the camera database can be defined as allowed or blocked vehicles. Actions like activating a camera output to open a gate for allowed vehicles can be configured in the camera. Blocked or non-listed vehicles can also trigger additional actions or events if needed.

Without matching vehicle license plates against a database, the camera is also able store any captured license plate on local storage, NAS or FTP server.

## Integrated solution

When the camera is connected to an access control system, the access control system can grant or deny access to the vehicle based on the Wiegand data that is sent by the camera whenever a license plate is read. Access Control system parameters like access levels, time schedules or other logic can be used to grant access to specific vehicles according pre-defined time schedules. The video streams from the camera can also be recorded on any TruVision network recorder or any VMS supporting recent TruVision IP cameras.

## Details

- Maximum resolution: 2680 × 1520
- ANPR (Automatic Number Plate Recognition)
- Block and allow list license plate database up to 10,000 records
- Wiegand output for integration with Access Control systems
- Motorized zoom lens 2.8 to 12 mm with auto-focus
- Up to 50 m IR illumination
- 5 independent configurable video streams
- 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 |
| Privacy masking | 8 zones |
| Software compatibility | TruVision Navigator, TVRmobile, Web Browser |

### Camera

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

### Lighting performance

| | |
|---|---|
| WDR type | True WDR |
| WDR | 140 dB |
| Digital noise reduction | 3D DNR |
| Day/night | True Day/Night |
| Motorized IR cut filter | Yes |
| Color sensitivity | 0.0005 Lux @ (F1.2, AGC ON) |
| B/W sensitivity | 0.0001 Lux @ (F1.2, AGC ON) |
| B/W trigger | Auto/Schedule/Triggered by alarm in |
| Infrared (IR) | Yes |
| IR range | Up to 50 m |
| IR wavelength | 850 nm |

### Encoding

| | |
|---|---|
| Video streams | 5 |
| Main stream compression | H.264, H.265, H.265+ |
| Sub stream compression | H.264, H.265, MJPEG |
| Third stream compression | H.264, H.265 |
| Video bit rate | 32 to 8 Mbps |
| Main stream resolutions | 1280 x 720 (XVGA), 1920 x 1080 (1080p), 2560 x 1440, 2680 × 1520 |
| 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 | 2680 × 1520 @ 25/30 fps |
| 4th and 5th 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) |

### Lens

| | |
|---|---|
| Lens type | Varifocal motorized |
| Focal length | 2.8 to 12 mm, Horizontal FoV 114.5 to 41.8°, Vertical FoV 59.3 to 23.6°, Diagonal FoV 141.1 to 48° |
| f-stop | F1.2 to 2.5 |
| Auto iris | Yes |
| P-iris | Yes |
| Auto focus | Yes |
| Motorized zoom | Yes |

### Network

| | |
|---|---|
| Network interface | RJ-45 10/100 Mbps self-adaptive Ethernet interface |
| Integration | CGI, ISAPI |
| 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 setting |

### Audio

| | |
|---|---|
| Audio compression | G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, MP3, PCM |
| Audio in | 1 line in |
| Audio out | 1 line out |
| Audio bit rate | 64Kbps (G.711), 16Kbps (G.722.1), 16Kbps (G.726), 32-192Kbps (MP2L2), 32Kbps (PCM), 8-320Kbps (MP3) |

### Alarm I/O

| | |
|---|---|
| Alarm inputs | 2 |
| Alarm outputs | 2 outputs (24 VAC/VDC, 1 A 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 |

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### Video intelligence

| | |
|---|---|
| Alarm trigger | HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering |
| ROI | Up to 4 fixed regions |
| Smart event | Advanced motion detection, ANPR capture, Audio exception detection, Defocus, Intrusion detection, Line crossing detection, Region entrance detection, Region exiting detection, Scene change detection |
| Intelligence options | Person/vehicle classification on VCA events (when VCA resource mode Smart Event is selected)<br>Vibration detection<br>Video quality diagnosis<br>e-PTZ on 4th stream supporting digital zoom based preset tour and auto-tracking |

### Electrical

| | |
|---|---|
| Operating voltage | 12 VDC ± 20%, three-core terminal block, reverse polarity protection / PoE (802.3at, class 4) |
| Power consumption | 12 VDC, 1.19 A, max. 14.28 W; PoE (802.3at, 42.5 V to 57 V), 0.396 to 0.295 A, max. 16.8 W |
| Power output | 12 VDC, max. 100 mA |

### Physical

| | |
|---|---|
| Physical dimensions | 140 x 351 mm<br>Φ5.5 x 13.8 in. |
| Net weight | 1920 g<br>4.2 lb. |
| Shipping weight | 3060 g<br>6.7 lb. |
| Colour | Grey |
| Material | Aluminium |
| Form Factor | Bullet |

### Environmental

| | |
|---|---|
| Impact rating | IK10 |
| Environment | Outdoor |
| Operating temperature | -40 to +66°C<br>-40 to +140°F |
| Relative humidity | <95% noncondensing |
| IP rating | IP67 |

### Regulatory

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

### ANPR features

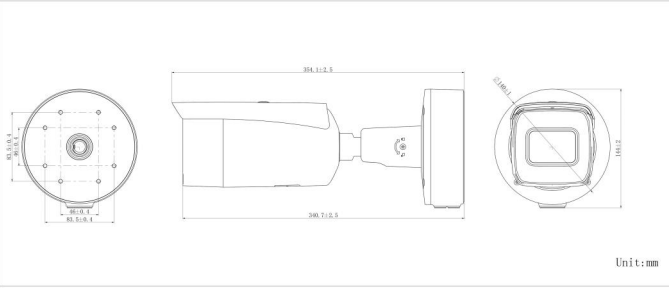
| | |
|---|---|
| Wiegand output protocols | 26 bit, 34 bit, SHA-1 26-bit plate conversion, 72 bit plate conversion |
| Block List and Allow List | Up to 10,000 records |
| Vehicle detection mode | Single lane support. License plate recognition of motorcycles (only in Entrance/Exit mode)<br>Support vehicle attributes detection including vehicle type, color, brand, etc. (City Street mode is recommended.) |
| Mixed-traffic detection mode | Support up to 2 lanes. Automatic vehicle flow detection |
| Other | No-plate vehicle detection |
| Supported Regions | Europe, Middle East, Africa, LATAM, Russian speaking region, Asia-Pacific. See FW release note document for more details. |

### Accuracy

| | |
|---|---|
| License Plate Recognition | Accuracy: Capture Rate 98%, Recognition Rate |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Brackets & Mounts | TVB-PM | TruVision pole mount adaptor for use with IP Bullet cameras with large back box |

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Last updated on 24 August 2026 - 15:15