TVB-5412

TruVision ANPR camera, H.264, 1080p, 2.8 to 12 mm, Super Low Light, WDR, true D/N, 50 m IR, Audio, Alarm, BNC, micro SD/SHDC slot, Intelligence, PoE+ (802.3-at) /12 VDC, IP66

Overview

The TruVision Automatic Number Plate Recognition (ANPR) cameras feature embedded Optical Character Recognition (OCR) to identify vehicle license plate information in real-time. Captured license plates can trigger events that can be used to store video and snapshots or sent events over the network. These events contain information like license plate characters, date & timestamp, lane number, direction, etc.

Wiegand interface

The onboard Wiegand interface allows the camera to be connected to any access control system with Wiegand reader interface. Every license plate stored in the camera database can have a corresponding badge ID that is sent via the camera Wiegand output to the access control system whenever the license plate is read.

Standalone solution

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

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 badge ID that is sent by the camera whenever the license plate is captured. 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

- Automatic Number Plate Recognition (ANPR)
- Wiegand interface for integration with access control systems
- Motorized Lens 2.8 to 12mm
- Up to 50 m IR illumination
- Super Low Light: Color: 0.002 Lux @ (F1.2, AGC ON), 0 Lux IR on
- Maximum Real Time Resolution: 1920 x 1080 @ 50 fps
- Motorized IR Cut Filter
- ONVIF Profile G and S conformant
- H.264 compression with triple-streaming functionality
- Edge recording up to 128GB with optional SDHC card
- Up to 120 dB Wide Dynamic Range

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Technical specifications

General

Technology	IP
Video standard	NTSC, PAL
Image settings	Hallway View, Mirror
Video output	BNC Composite PAL / NTSC
Software compatibility	Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser

Camera

Sensor size	1/1.8"
Max. resolution	2 MP
Sensor scan	Progressive
Sensor type	CMOS
Total Pixels (H x V)	1920 x 1080
Digital S/N ratio	52 dB (AGC OFF)
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: 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR
IR range	Up to 50 m
IR wavelength	850 nm

Encoding

Video streams	3
Main stream compression	H.264, MPEG4
Sub stream compression	H.264, MJPEG, MPEG4
Third stream compression	H.264, MJPEG, MPEG4
Video bit rate	32 Kbps to 16 Mbps
Main stream resolutions	1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p)
Sub stream resolutions	352 x 288 (CIF), 640 x 480 (VGA), 704 x 576 (4CIF)
Third stream resolutions	1280 x 720 (XVGA), 1280 x 960 (720p), 1920 x 1080 (1080p), 352 x 288 (CIF), 640 x 480 (VGA), 704 x 576 (4CIF)
Max. resolution @ fps	1920 x 1080 @ 50 fps
H.264 codec profile	Baseline Profile/Main Profile/High Profile

Lens

Lens type	Varifocal motorized
Focal length	2.8 to 12 mm, F1.4, horizontal field of view: 92 to 32°
Auto iris	Yes
Auto focus	Yes
Motorized zoom	Yes

Network

Network interface	RJ-45 10/100 Mbps self-adaptive Ethernet interface
Integration	CGI, ONVIF Profile G, ONVIF Profile S, PSIA
Supported network protocols	802.1x, DDNS, DHCP, DNS, ezDDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UPnP

Audio

Audio compression	G.711a, G.711u, G.722.1, G.726, MP2L2, PCM
Audio in	1
Audio out	1

Alarm I/O

Alarm inputs	1
Alarm outputs	1
Alarm I/O connection	Terminal Type

Storage

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

Video intelligence

ROI	4 configurable fixed regions and 1 dynamic region for license plate tracking
Smart event	Defog, Electronic Image Stabilization (EIS), License plate recognition, Region of Interest (ROI)
License Plate Recognition	Accuracy: Capture Rate 99%, Recognition Rate > 98% (European and Russian-Speaking Regions)
Vehicle speed detection	Under 120 km/h (74.6 mi/h)
Number of lanes	Up to 4 lanes. Recommended to set 1 or 2 lines for best performance.
Direction	Capture and recognition of vehicles both approaching and leaving

Electrical

Operating voltage	12 VDC PoE+ (802.3at, class 4)
Power consumption	13.5 W @ 12 VDC Max. 16 W @ PoE+
Current consumption	1.2 A @ 12 VDC Max. 0.4 A @ PoE+

Physical

Physical dimensions	302 x 115 mm
Net weight	1675 g
Colour	Grey
Form Factor	Bullet

Environmental

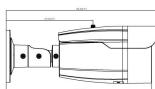|	
Environment	Indoor, Outdoor
Operating temperature	-30 to +60°C
Relative humidity	<95% noncondensing
IP rating	IP66

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Regulatory

Compliancy	CE, REACH, RoHS, WEEE

Wiegand interface

Protocol	26 bit or 34 bit

Supported license plate regions

Firmware V13.x FPx (default loaded FW)	Slovakia, Italy, Spain, France, Germany, Poland, Belgium, France, Czech Republic, Netherlands, Denmark, Luxembourg, Greece, Albania, Bosnia and Herzegovina, Ireland, Malta, Sweden, Switzerland, Portugal, Macedonia, Croatia, Finland, United Kingdom, Romania, Serbia, Bulgaria, Norway, Israel, Hungary, Austria, Vatican City State, Cyprus, Iceland, Slovenia, Turkey, Montenegro
Firmware V14.x FPx	South Africa
Firmware V15.x FPx	Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Armenia, Russian Federation, Ukraine, Moldova, Belarus, Turkmenistan, Uzbekistan
Note: Make sure to load the proper firmware for the region where the camera is installed	

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