TVS-PC2

TruVision IP Dual Lens People Counting Camera, Indoor, 2MP, 2 mm lens

Overview

The TruVision people counting cameras are dual lens cameras that count people with high accuracy. The cameras use binocular stereo vision in combination with 3D people detection and deep learning algorithms. There is both an indoor (TVS-PC2) and an outdoor model (TVS-PC1) available.

The people counting data is stored in an internal memory and it can be reported in real time to TruVision Navigator (9.0SP2 or higher) or to the SDK.

The camera webpage contains several reporting options via direct export or email.

Installation

As a general guideline, one camera should monitor one entrance. The camera is mounted on the ceiling and looks 90° downwards. The mounting height can be between 2.1 and 6 m. The camera has a fixed 2 mm lens and produces a color image (2MP).

However, the camera cannot be used for surveillance applications due to its specific installation position: it can only monitor the passage way, and not an entire room or a larger space.

Integrated solution

The camera can report the counting data in real time to TruVision Navigator (9.0SP2 or higher). TruVision Navigator can calculate the on-site occupancy of multiple cameras and show the real-time result in a video tile, on a map or on a webpage (via LAN).

Stand-alone solution

In a standalone operation, the camera will count the number of people that go in/out. When needed, a value can be set for the maximum permitted number of people that can be on site. The camera can report the counted number of people per day/week/month/year. The report can be exported. It is also possible to send reports by email in various formats (Excel, CSV, text or XML).

Applications

The solution can be used for health & safety purposes: real time information about the number of visitors on site in line with social distancing rules during a pandemic situation or to know in real time how many people are on site in case of an evacuation

Details

- Resolution 1920 x 1080
- H.265 and/or H.264 compression
- Dual lens, 2 mm fixed
- IR up to 6 m
- ONVIF compliant
- Internal eMMC memory for counting data

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Technical specifications

General

Technology	IP
Video standard	PAL
Image settings	ROI (Region Of Interest)
Software compatibility	TruVision Navigator, Web Browser

Camera

Sensor size	1/2.7"
Max. resolution	2 MP
Sensor scan	Progressive
Sensor type	CMOS
Shutter time	1/25 s to 1/100,000 s

Lighting performance

WDR type	Digital WDR
Digital noise reduction	3D DNR
Color sensitivity	0.005 Lux @ (F1.2, AGC ON), 0.0176 Lux @ (F2.25, AGC ON)
B/W sensitivity	0.001 Lux @ (F1.2, AGC ON), 0.0035 Lux @ (F2.2.5, AGC ON)
Infrared (IR)	Yes
IR range	Up to 6 m
IR wavelength	850 nm

Encoding

Video streams	2
Main stream compression	H.264, H.265
Sub stream compression	H.264, H.265
Main stream resolutions	1280 x 720 (XVGA), 1920 x 1080 (1080p)
Sub stream resolutions	640 x 480 (VGA), 704 x 576 (4CIF)
Max. resolution @ fps	1920 x 1080 @ 25fps

Lens

Lens type	Fixed
Focal length	2 mm
f-stop	F 2.25

Network

Network interface	RJ-45 10/100 Mbps self-adaptive Ethernet interface
Integration	ISAPI, ONVIF
Supported network protocols	Bonjour, DDNS, DHCP, DNS, ezDDNS, FTP, HTTP, HTTPS, ICMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, UPnP

Audio

Audio compression	G.711, G.722.1, G.726, MP2L2, PCM
Audio in	1 built-in mic, 1 input (line in, two-core terminal block)
Audio out	1 output (two-core terminal block)

Alarm I/O

Alarm inputs	1
Alarm outputs	1
Alarm I/O connection	terminal block

Storage

Local storage type	Build in eMMC memory

Video intelligence

Alarm trigger	HDD error, HDD full, Invalid login, IP address conflict, Network disconnected
Smart event	People counting

Electrical

Operating voltage	12 VDC ± 20%, terminal block / PoE+ (IEEE 802.3af, class 3)
Power consumption	max. 8 W @ 12 VDC max. 8.3 W @ PoE (36 to 57 VDC)
Current consumption	0.66 A @ 12 VDC 0.23 A to 0.14 A @ PoE

Physical

Physical dimensions	168 x 61 x 36 mm 6.6 x 2.4 x 1.4 in.
Net weight	435 g 1 lb.
Colour	White

Environmental

Environment	Indoor
Operating temperature	-30 to +45°C -22 to +113 °F
Relative humidity	<95% (non-condensing)

Regulatory

Compliancy	CE, FCC, RCM, REACH, RoHS, WEEE