

Video security
solutions



The People Counting solution by TruVision

Know the flow



What is the People Counting solution ?

The **TruVision People Counting solution** provides **public safety** and comfort by counting the number of people who pass through the entrance and the exit of a site.



The **TruVision People Counting solution** gives the ability to monitor crowd density to prevent overcrowded locations. It gives visibility on the number of people present on a site, and it can show real-time occupancy so that resources are allocated accordingly.

It has many uses, based on the **type of business** and the **size of the site**.

Check out the suggested use cases at the end of this brochure to understand more.



What does it do ?



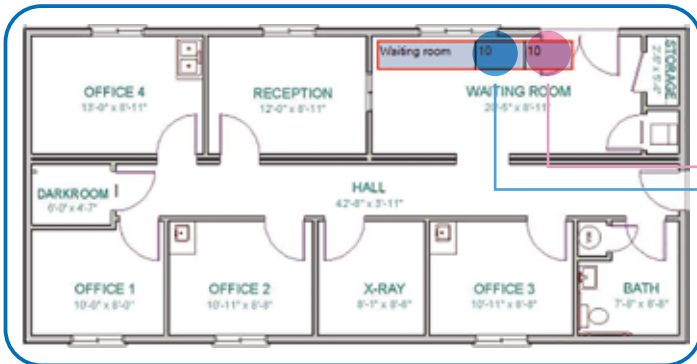
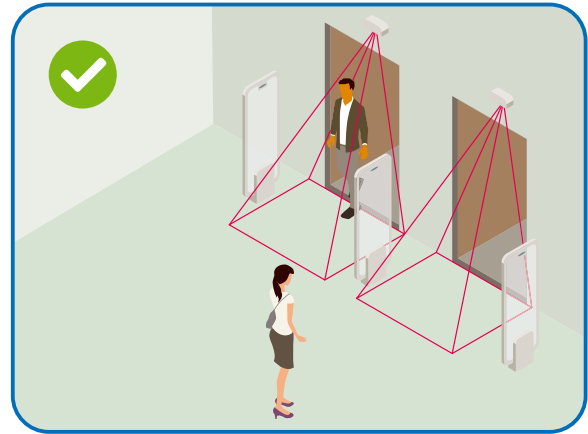
- It instantly shows you the number of people on site ;
- It gives you numerous options to display the data in TruVision Navigator: in a tile, on a map, in a web browser via LAN, on a monitor through media player or on a mobile device !
- An alarm can be triggered when the defined number of people has been reached ;
- This alarm can create an action such as door control, access control, traffic light control, PA system control ;
- With TruVision Navigator, you can customize the display, configure the counting parameters, and you can benefit from multiple other possibilities based on your needs.

How does it work ?

1

Camera installation

The cameras are installed on the ceiling in the middle of the door, the lens covering the full width of the door.



2

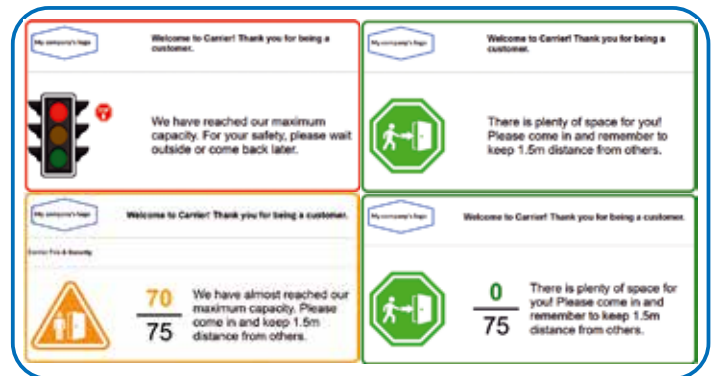
Real-time counting results on a map

A summary is shown on a map with the real-time occupancy (in blue) and the maximum permitted number of people per group (in pink).

3

Public information sharing and alarms

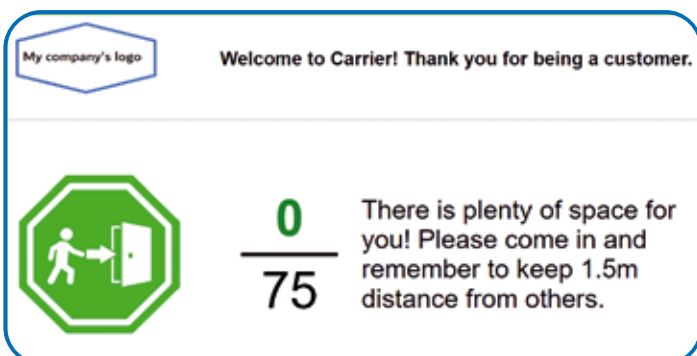
- The webpage can display real-time counting for a maximum of four selectable camera groups ;
- The webpage content can be configured, for example to :
 - Add a company logo
 - Add a traffic light or a traffic sign display
 - Display or hide real-time counters
 - Customize text messages



4

Information for the operator

The operator can see the real-time counting result in a tile of TruVision Navigator Viewer.



How does it work with TruVision Navigator?

- TruVision Navigator is the Video Management Software integrating TruVision and IFS products;
 - With the People Counting solution, it calculates the site attendance based on in/out counters for one or more cameras;
 - It gives the possibility to **configure people counting parameters**, such as permitted people on site, initial counter, and alert number;
 - It shows **real-time counting result** on a site map, in a video tile of the software and/or on a webpage.
- ➔ **Operators and site visitors receive the information instantly!**



Why the People Counting solution?

The solution is...

Affordable

- The camera software, TruVision Navigator, is free – no licenses required
- Low cost of media player (Google Chromecast, Amazon Firestick)
- Cost effective camera solution

Easy

- Simple installation and configuration
- Respect of privacy
- Real-time display of the people count

The solution brings you ...

Efficiency

- Allows staff allocation management
- Enables saving cost on resources
- Can be linked to access control, door control, light indicators, PA systems

Safety

- Respect of social distancing based on the size of the site
- Monitors emergency evacuations by counting the people in/out



How to benefit from it ?

Example of application : social distancing

Ensure the safety of your visitors while respecting their privacy

Our laws regulate the collection of personal data. That's why the body temperature measurements have been avoided in some European countries. The People Counting solution is another option to respect the distancing measures by controlling the number of people inside a building or a room.



How?

By instantly displaying the number of people counted inside the premises (shop, corridor, floor etc.) to visitors, to the operators or at the entrance.



Make public announcements for your visitors on site

During a pandemic situation, the number of people that can enter a store, such as a supermarket, can be monitored. Customers on site have the possibility to know if the maximum capacity has been reached: first, to be aware that there could be people are waiting outside and to hurry accordingly, and second, to be more cautious and respect the 1.5 m distance when they move around.

How?

The staff is informed when the maximum number of people has been reached. The message can be displayed on a monitor, on mobile phones or via email, and an announcement via a PA system can be made in the store.

How to benefit from it ?

Example of application : resource management

Allocate your resources in the most efficient way

Adapt your resources to the crowd – live – thanks to the People Counting solution.

In locations such as supermarkets, administration buildings and customer support desks, the number of cashiers & counters available can vary according to the size of the crowd.

For example, a staff member is on a break or assigned to another task, the People Counting solution gives you the ability to re-allocate staff to assist customers where and when required.



How ?

The personnel will be informed on their mobile phone about the counted number of people in the premises and act accordingly. They could get an e mail notification that the maximum capacity of the site has been reached.



Lifeguards in duty depending on the number of swimmers

In public swimming pools, some countries have regulations: lifeguards need to be allocated based on the number of people in the pool.

Count the number of people who enter the pool area and then determine the necessary number of lifeguards.

How ?

By using the real-time counting information that is shown in TruVision Navigator, the management can identify the number of people who entered the swimming pool area and adapt the lifeguards on duty according to the determined rules.

How to benefit from it ?

Example of application : emergency situations

Fire alarm – how many people need to evacuate ? *

If a fire alarm is triggered in crowded commercial premises (offices, malls, movie theaters...) and evacuation is requested, it is important to know how many people are present inside.

The People Counting solution can help the evacuation by showing real time occupancy information to the operator who informs the security services.

This is to support an error-proof evacuation and an instant rescue if people were left inside.

* Please note that it is the responsibility of the emergency services / business owners to make sure that the evacuation is complete. This is a use case example to illustrate a solution.



How ?

By using the real-time counting information that is shown in TruVision Navigator.

Already have a TruVision video installation ?



It cannot be easier !

If TruVision cameras and TruVision Navigator are already in use, just add people counting cameras to obtain real-time count information of your site. It instantly works with the VMS, the only action needed is to purchase the People Counting cameras.

	TVS-PC1	TVS-PC2
General		
Technology	IP	IP
Video standard	PAL	PAL
Display modes	ROI (Region Of Interest)	ROI (Region Of Interest)
Software compatibility	TruVision Navigator, Web browser	TruVision Navigator, Web browser
Camera		
Sensor size	1/2.7"	1/2.7"
Max. resolution	2 MPX	2 MPX
Sensor scan	Progressive	Progressive
Sensor type	CMOS	CMOS
Shutter time	1/25 s to 1/100,000 s	1/25 s to 1/100,000 s
Lighting performance		
WDR type	Digital WDR	Digital WDR
Digital noise reduction	3D DNR	3D DNR
Color sensitivity	0.005 Lux @(F1.2, AGC ON), 0.0176 Lux @(F2.25, AGC ON)	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)	0.001 Lux @(F1.2, AGC ON), 0.0035 Lux @(F2.2.5, AGC ON)
Infrared (IR)	Yes	Yes
IR range	Up to 6 m	Up to 6 m
IR wavelength	850 nm	850 nm
Encoding		
Video streams	2	2
Main stream compression	H.264, H.265	H.264, H.265
Sub stream compression	H.264, H.265	H.264, H.265
Main stream resolutions	1280 x 720 (XVGA), 1920 x 1080 (1080p)	1280 x 720 (XVGA), 1920 x 1080 (1080p)
Sub stream resolutions	640 x 480 (VGA), 704 x 576 (4CIF)	640 x 480 (VGA), 704 x 576 (4CIF)
Max. resolution @ fps	1920 x 1080 @ 25fps	1920 x 1080 @ 25fps
Lens		
Lens type	Fixed	Fixed
Focal length	2 mm	2 mm
f-stop	F 2.25	F 2.25
Network		
Network interface	RJ-45 10/100 Mbps self-adaptive Ethernet interface	RJ-45 10/100 Mbps self-adaptive Ethernet interface
Integration	ISAPI, ONVIF	ISAPI, ONVIF
Supported network protocols	Bonjour, DDNS, DHCP, DNS, ezDDNS, FTP, HTTP, HTTPS, ICMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, UPnP	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	G.711, G.722.1, G.726, MP2L2, PCM
Audio in	1 built-in mic, 1 input (line in, two-core terminal block)	1 built-in mic, 1 input (line in, two-core terminal block)
Audio out	1 output (two-core terminal block)	1 output (two-core terminal block)
Alarm I/O		
Alarm inputs	1	1
Alarm outputs	1	1
Alarm I/O connection	terminal block	terminal block
Storage		
Local storage type	Build in eMMC memory	Build in eMMC memory
Video intelligence		
Alarm trigger	HDD error, HDD full, Illegal login, IP address conflict, Network disconnected	HDD error, HDD full, Illegal login, IP address conflict, Network disconnected
Video analytics	People counting	People counting
Electrical		
Operating voltage	12 VDC ± 20%, terminal block / PoE+ (IEEE 802.3af, class 3)	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)	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	0.66 A @ 12 VDC, 0.23 A to 0.14 A @ PoE
Physical		
Physical dimensions	168 x 61 x 41 mm, 6.6 x 2.4 x 1.6 in.	168 x 61 x 36 mm, 6.6 x 2.4 x 1.4 in.
Net weight	435 g, 1 lb.	435 g, 1 lb.
Colour	White	White
Environmental		
Environment	Outdoor	Indoor
Operating temperature	-30 to +45°C, -22 to +113 °F	-30 to +45°C, -22 to +113 °F
Relative humidity	<95% (non-condensing)	<95% (non-condensing)
IP rating	IP67	
Regulatory		
Compliance	CE, FCC, RCM, REACH, RoHS, WEEE	CE, FCC, RCM, REACH, RoHS, WEEE