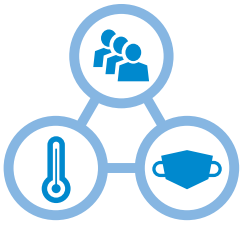
Edge Computing Covid-19 Defender

Mask Detection • Temperature Screening • Occupancy Control

Introduction

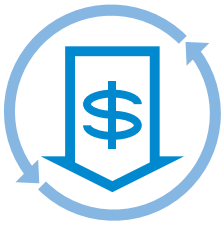
In the covid era, public awareness of infection precaution has arisen and demands for specialized capabilities in this area have surged. VIVOTEK Edge Computing COVID-19 Defender, equipped with triple detection for high reliability, facemask and temperature with on-edge monitoring, is specifically designed to care for the safety of your staff and the public with a seamless shield that helps mitigate the spread of infection. VIVOTEK Edge Computing COVID-19 Defender is also your intelligent guardian for the post-covid-19 age where the new normal of social distancing will likely prevail.

Benefits



All-around Protection

Occupancy control, facemask detection with low latency and skin surface temperature screening for front line deployment, enabling real-time monitoring at multiple facility entrances to help reduce the risk of infection.

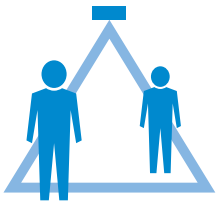


Automatic Access Management

The package is able to save staff costs and ease administrative burdens by implementing detection with minimal staff assistance. Multiple monitors at entrances display synchronized information on the number of people inside the facility.

Non-contact Defense

Ensuring the welfare of personnel, reducing the likelihood of infection and curbing the spread of virus through a contact free system, the facial reader detects individuals wearing masks and screens people for signs of elevated skin temperature, all at a safe distance.



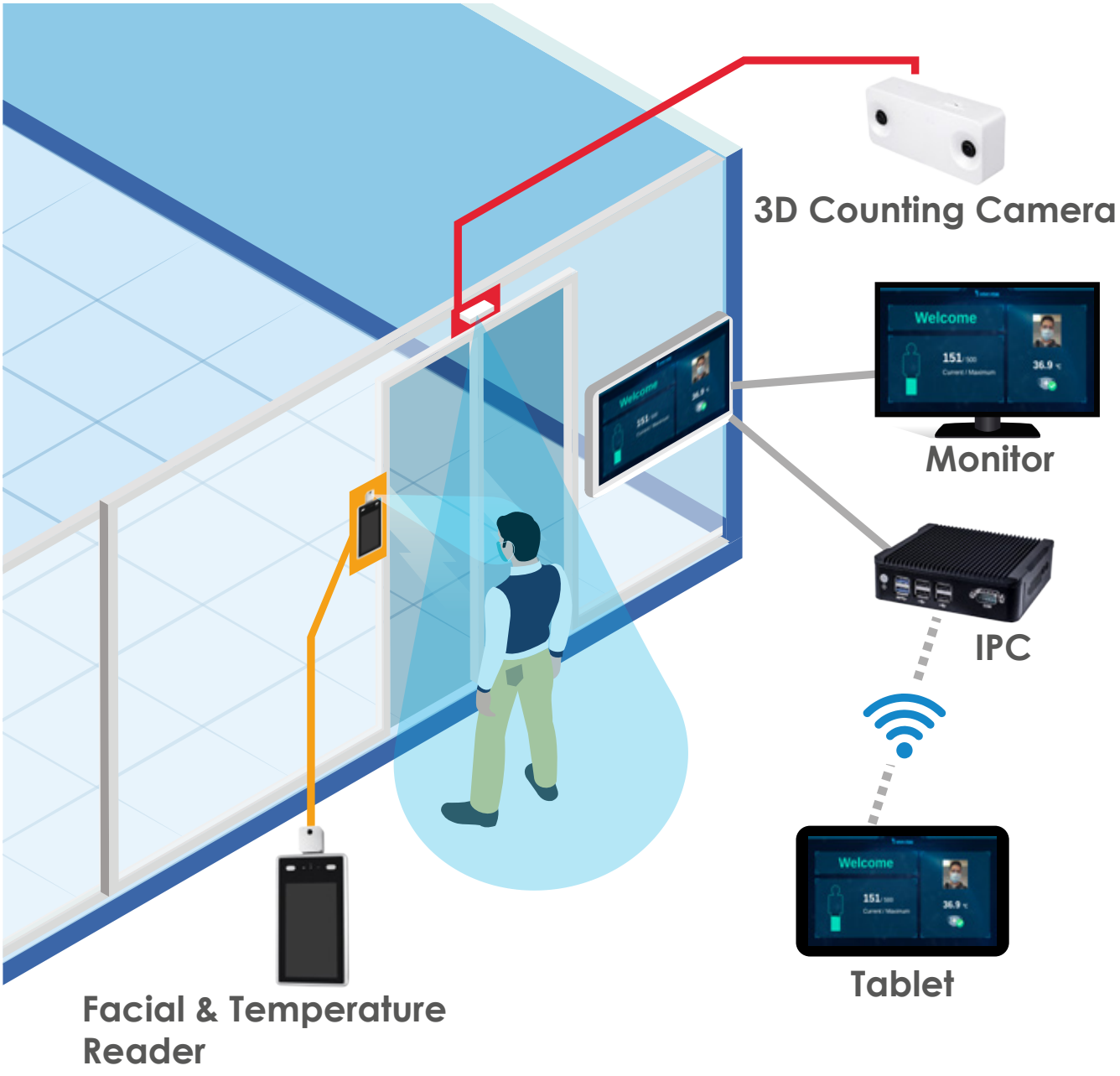
Precision People-Counting

VIVOTEK's stereo-counting network cameras deliver high accuracy people-counting, and can be applied to varying widths of entrances of any facility.

Diverse Applicable Scenarios

The solution offers comprehensive coverage and protection at high-traffic areas with large throughput, flawless management across up to 256 entrances, and is ideal for medium to large businesses, covering large-scale scenarios like infrastructure, industrial spaces, office buildings, retail, public transport, etc.

Application



Technical Specifications

Technical Specifications - Facial Reader	
Model	AF-101
System Information	
Operation System	Linux
RAM	16G EMMC
Monitor Feature	
Screen Size	7 inch TFT
Monitor Resolution	600 x 1024
Camera Feature	
Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	1920 x 1080
Lens Type	Binocular camera supports live detection
Focal Length	4.5 mm
Minimum Illumination	Color 0.01Lux@F1.2 B/W 0.001Lux@F1.2
S/N Ratio	≥50dB(AGC OFF)
Dynamic Range	≥80dB
Temperature Measurement	
Range	30°C - 45°C (86°F - 113°F)
Measuring Accurancy	± 0.5°C
Measuring Distance	0.3 - 0.8 M
Response Time	<300ms
Height	1.2 - 2.2 meter, angle adjustable
Distance	0.5 - 2 M
View Angle	Vertical ± 40 degree
Response Time	<500ms
Face Capability	Supports 22,400-face database and 100,000 records
Network	
Wired Network	RJ45 10M/100M Ethernet
General	
Connector	RJ45 x1 Weigand port: Input/output: 26/34 Alarm output: Relay output x 1 USB port (Can be connected to ID identifier)
Power Input	DC 12V/3A
Power Consumption	Max. 20W
Dimension	123.5 (W) x 45.5 (H) x 266 (L) mm

Technical Specifications

Weight	1.9 kg
Casing	IP34
Standards Compliance	CE, FCC Class B, RCM
Operation Temperature	-15°C - +60°C (5°F - 140°F)
Humidity	5 - 90%, no condense
Warranty	12 months
Technical Specifications - Mini Industrial Personal Computer	
Model	AB-101
Processor	Intel Celeron Quad-Core N3160 (2M Cache, up to 2.24GHz)
Storage	64GB SSD HDD
Local Display	HDMI video output x 2, Display Port x 1
Connector	Ethernet 100/1000 RJ45 x 2 USB 3.0 x 2, USB2.0 x 4 Audio Mic-in x 1 RS232 COM x 1 DC 12V power jack x 1 Power switch
Power Input	DC 12V Power Supply and AC Power Adapter
Operation Temperature	-10°C - 60 °C (14°F - 140°F)
Standards Compliance	CE, FCC Class B, RCM
Weight	650 g
Dimension	134 (W) x 126 (D) x 39 (H) mm
Warranty	12 months
Technical Specifications - 3D Counting Camera	
Model	3D People Counting Camera
System Information	
Processor	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	512 MB
Camera Feature	
Image Sensor	1/3" Progressive CMOS
Maximum Frame Rate	15 fps @ 2560x960
On-board Storage	MicroSD/SDHC/SDXC card slot
Video	
Compression	H.264 & MJPEG
Maximum Stream	3 simultaneous streams
Report Format	JSON/XML/CSV
General	

Technical Specifications

Connector	RJ-45 for Network/PoE connection DI/DO USB 2.0 (Only as a power bank, not for data transmission) MicroSD Slot
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 3
Power Consumption	PoE: Max. 12.95W USB: Max. 300mA
Dimension	160 (D) x 70 (W) x 38 (H) mm
Weight	396 g
Standards Compliance	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operation Temperature	Starting Temperature: 0°C - 40°C (32°F - 104°F) Working Temperature: -10°C - 40°C (14°F - 104°F)
Warranty	12 months

Installation

Installation Height	240 - 360 cm (7.9 - 11.8")

Tecnical Specifications - Reader Bracket

Model	AM-812/AM-813/AM-814
Material	Aluminum alloy and Stainless Steel
Dimension	300 (L) x 250 (W) x 1340 (H) mm
Weight	7.5 kg

Included accessories for Facial Reader (AF-101)

Wall mount bracket, Wall mount board, Tripod mounting bracket

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