VC-1020

High speed accurate people counting

Simply, quickly and accurately count the number of people that visit your building, facility or event, using the AIO VC-1020 'people count' sensor. The AIO VC-1020 is more than 95% accurate, and thus is one of the most reliable 'people count' sensors on the market: even during busy times.

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PATENTED IMAGE ANALYSIS

The AIO VC-1020 can be directly connected to your Ethernet and external data services via the 'PoE' connection on the sensor. The patented image analysis algorithms create a 3D virtual environment allowing accurate counting of people entering and leaving. Individually set counting lines track which way people go after entering, allowing you to analyse traffic flow from the point of entry. This valuable information can contribute to an increase in efficiencies including, sales and staff management, inventory management and climate control management as well as optimizing your energy consumption.

REAL TIME IMAGE

Using the real time video output of the sensor over the 'PoE' network you can, in consultation with the system administrator, at any time and from anywhere log in to observe changes in the counting environment and, if necessary, make appropriate adjustments. You decide yourself how often the counting information is sent to the recipient server or 'Cloud'. In case of failure of the 'PoE' network, the sensor, if equipped with the optional power-adapter, will save the counting information for 30 days on an internal flash-memory.

QUICK AND EASY INSTALLATION

Installing the AIO VC-1020 is simple: place the camera in a strategic location and connect to your 'PoE' network. The sensor is suitable for detecting up to a distance of 4 meters by default. The purchase of a software license will enable you to increase the detection distance up to 6 meters. Optionally, the power adapter can be used as an additional power backup. The settings for the IT coupling of the AIO VC-1020 sensor to your network and data server or external data centre is actually a routine job for IT people.

DETECTION

The high quality camera and patented image analysis software can be adjusted in detail. Thus it is possible to define a counting area using the eight counting directions, which can then be locally adjusted via your laptop or remote login procedure. The height of the objects to be counted can be set relatively accurately, which will enable you to exclude for instance, shopping carts and children from the count. Because of the 3D virtual mapping you eliminate, among others, shade detections and you can be assured of an accurate count in situations of high people traffic. The AIO VC-1020 functions in minimal ambient light and has a proven count accuracy of at least 95%.

Type	VC-1020
Exterior dimensions	85mm H x 193mm W x 34mm D 3.34in. H x 7.59in. W x 1.34in. D
Sensor components	Camera with processor
Operating environment	Indoor use
Color variation	White
Installation position	Ceiling exposed mount
Installation height	Standard: 2.3m to 4.5m (7.5ft to 14.8ft) *High: 4.0m to 6.0m (13.1ft to 19.7ft) (optional)
Image sensor	CMOS image sensor color 640 x 480 pixel
Accurate telling	Over 95%
Illuminance	Over 100Lux
Supply power voltage	DC 48V (PoE: IEEE802.3af Class 0)/DC24V (DCJack)
Electricity consumption	7W
Operating temperature	0˚C to 50˚C, 32˚F to 122˚F
Operating humidity	30% to 85% non-condensing
IP rating	IP32
Weight	Approx. 220g, 7.76oz
Materials	ABS/PC UL94 V-O
Led indicator	Power, counting and error
IP address reset	IP address reset button
External terminals	RJ45 connector and DC Jack
Interval of time	30 sec.
Count data delivery	Push: FTP, SFTP, FTPS. Pull: TCP/IP
Video image output	H.264/MPEG4 (VGA/QVGA 30/15/10fps)
Still image output	JPEG (QVGA)
Maximum wiring length	100m (109.4 yards)
Error detect (monitor LED)	Camera error
Recorded data	Stores 30 days of data (1 min. increment)
Setup tool	Web based settings (IE)
Certifications	CE ClassA, FCC ClassA, C-Tick
Counting method	3D virtual modeling
Coverage area	1.8m W (at 2.3m H) (7.5ft.) 4.5m W (at 3m to 4.2m H) (9.8ft. to 13.8ft.) *Approx. 4m W (at 6m H) (19.7ft.) (optional)
Counting	IN/OUT/multiple directions, leave out shadows and shopping carts
Counting area patterns	8 count patterns/multiple count lines (4 lines 8 directions)

OPTEX, Inc.
Entrance Division
18730 S. Wilmington Ave., Unit 100
Rancho Dominguez, CA 90220
800-877-6656
www.optexamerica.com