

LATEST GENERATION TOF (TIME-OF-FLIGHT) TECHNOLOGY

Innovative 'Time of Flight' technology that creates a high-resolution and accurate 3D image (with no GDPR impact) based on infrared rays reflected from the surroundings

MAXIMUM ACCURACY WITH ARTIFICIAL VISION ALGORITHMS

Processing algorithms based on neural networks and fuzzy logic that make it the most accurate people counting system on the market (>99%)

CUSTOMER SEGMENTATION AND GROUPING BEHAVIOUR

Customer path tracking, object identification and customer segmentation by height and grouping behaviour (individuals, couples and groups/families)

SMARTPHONE DETECTION AND TRACKING

Integrated module for detection and tracking of smartphones

WAITING IN QUEUE MANAGEMENT

Monitoring of people in queues and their waiting time

IP / IoT / M2M CLOUD-NATIVE COMMUNICATIONS

IP communications (Ethernet PoE, WiFi) and IoT/M2M native modules (LTE-M 4G / NB-IoT 4G / 5G)

STAFF IDENTIFICATION

Variety of integrated technologies for the 'identification and exclusion of employees': RFID, Bluetooth, IR, Mobile app, NFC

EASY DATA INTEGRATION

Flexible data integration (API, text csv, xml, JSON, web services)

INTERNAL STORAGE OF HISTORIC DATA

Historic data storage up to a maximum of 400 days

REMOTE AND CENTRALISED CLOUD MANAGEMENT

Remote cloud management of an unlimited network of devices



COMMERCIAL AREA BEHAVIOURAL ANALYTICS

PEOPLE COUNTING AND CUSTOMER PATHS

- Daily/weekly/monthly traffic paths
- Customer grouping behaviour
 - Occupation of the commercial area
 - Counting of people crossing and interested in the window display

DETECTION AND TRACKING OF SMARTPHONES

- Rate of attraction into the shop's commercial environment
- Visits and usual paths in department areas
- Dwell time in the shop and its different departments
- Returning customer rate / loyalty
- Maps of activity and movement in the commercial area WAITING IN QUEUE MANAGEMENT

- Identification of the number of people waiting in gueues
- Estimation of the average waiting time and drop-out rate

IDENTIFICATION OF EMPLOYEES

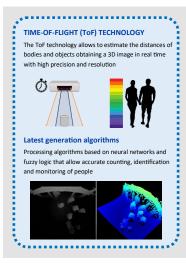
- Identification or exclusion of employees
 - Different integrated technologies:RFID, Bluetooth, IR, Mobile app, NFC



IOT - CLOUD SERVICES

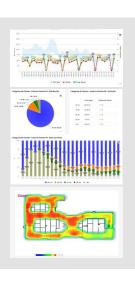
Cloud IoT architecture and platform with possibility of predictive and big data analytics services

FUNCTIONAL ARCHITECTURE









TECHNICAL SPECIFICATIONS

Model	VC.VISION.5D (PoE / WiFI / Track / 4G / IoT-NB / 5G)
Sensor technology	ToF - Time of Flight
Processor / Operating System	ARM Cortex-A8 / Linux
Communications	 IP (Compatible protocols: IPv4, TCP, UDP, DHCP, SNMP, SFTP, SSH, HTTPS) Ethernet WiFi (802.11 b/g/n) LTE-M 4G / NB-IoT 4G / 5G
Voltage / Power consumption	 12 VCC/700 mA (9 Wmax.) PoE (Power Over Ethernet) - IEEE 802.3af Compatible
Connections	 RJ-45 (Network/PoE) Jack (Power) 2 x USB 2.0 10 pin connector: UART / Ext. Power 5V / Digital I-O SMA connector for external antenna LTE-M 4G / NB-IoT 4G / 5G
Internal memory	Internal RAM/Flash
WIFI Scanner Module	 IEEE 802.11 b/g Standard: WEP, WPA-PSK security Integrated Antenna / Gain: 5 dBi Omnidirectional
Dimensions / Weight	40 x 151 x 94 mm / 750 g
Environmental parameters	 ROHS Range of ambient operating temperature -25°C / +70°C Relative humidity 5% / 95% (without condensation)

VISUALCOUNTER AROUND THE WORLD

- More than 40.000 counting devices installed
- Present in 80 countries on all five continents
- Reference customers in each market niche
- Solutions tailored to each country and sector
- Developing, manufacturing and marketing own people counting solutions





