People Counting
Intenta 3D-Vision Sensors

Use Case

People Counting

**Intenta S2000
3D-Vision Sensor**

Thanks to cutting-edge stereovision technology, your solution for the statistical surveying of visitor numbers offers the highest possible level of counting accuracy and the flexible measurement of visitor flows.

Visitor statistics
at a glance

The **Intenta S2000** reliably records key statistical figures for your visitor-analysis system. Based on cutting-edge stereovision technology and integrated image processing, the smart sensor enables the **counting of people** with the **highest level of accuracy**. Detection takes place regardless of the background, fluctuating light conditions or the size of the persons concerned. The sensor even detects partially concealed individuals in dense groups and in so doing can differentiate between adults, children and objects.

With the Intenta S2000 you can also record and analyse **visitor flows** and **durations of stay**. The sensor technology offers reliable support in the optimisation of route designs in shops, shopping centres or museums. The sensor helps you to respond immediately to fluctuations in visitor numbers by means of the targeted opening and closing of additional entrances and exits. It facilitates the successful monitoring of point-of-sale activities or enables accurate passenger counts in public and long-distance transport.

Benefits

– Accurate recording of visitor figures and visitor flows in real time

– Separate counting of children and adults

– Flexible use in individual shops, shopping centres or even in exhibition halls

– Simultaneous analysis of up to 10 areas per sensor

– Interface optimised for simple integration into your analysis system

– Data protection by means of integrated image processing

Key Features

- Counting accuracy of 98 %
- Real-time analysis
- Integrated image processing
- Universal optical 3D object recognition
- Standard API for connection to existing (analysis) systems
- Reporting of the count events at configurable time intervals (via FTP as an XML file, HTTP, HTTPS or email)
- HD video streaming (optional)
- Up to 10 count lines and detection zones per sensor

System Installation

- **Ceiling and angled wall installation possible**
- **Installation height:** up to 7m – higher on request
- **Surveillance range:** typically 6m × 6m – depending on the lenses installed and the method and height of installation

System Configuration

The **Intenta S2000** is configured via a web interface (using all common web browsers). Just a network connection between the smart sensor and PC or server is required. The following parameters can be defined via the configuration page:

- **Virtual count zones** (including the counting of incoming and departing visitors by means of the flexible assignment of count lines)
- **Object classification** (adults, children and objects)
- **Counting direction**

Security Housing

The optional security housing (Intenta S2100) ensures the tamper-proof installation of the sensor. It protects the equipment from damages and prevents unauthorized modifications.

Overview of functions

People counting	Accurate detection of visitor numbers; detection of partially concealed individuals in large groups, flexible count lines within the defined analysis area
Physical size detection and object recognition	Reliable differentiation between children and adults by means of the definition of physical size limits, detection of objects such as shopping bags that have been left behind
Intelligent surveillance	Recognition of behavioural patterns; measurement of duration of stay at specific way points, recording of the route taken and detection of the direction of movement
Real-time analysis and data security	Thanks to integrated image processing, real-time analysis is possible without additional external computing power. The transfer and storage of image data is optional and is not required for the collection of statistical values. Thus, sensitive images and personal rights are protected.
	Data concerning counts and durations of stay (including object classes and the count direction) can be exported into existing analysis systems by means of a standard API.