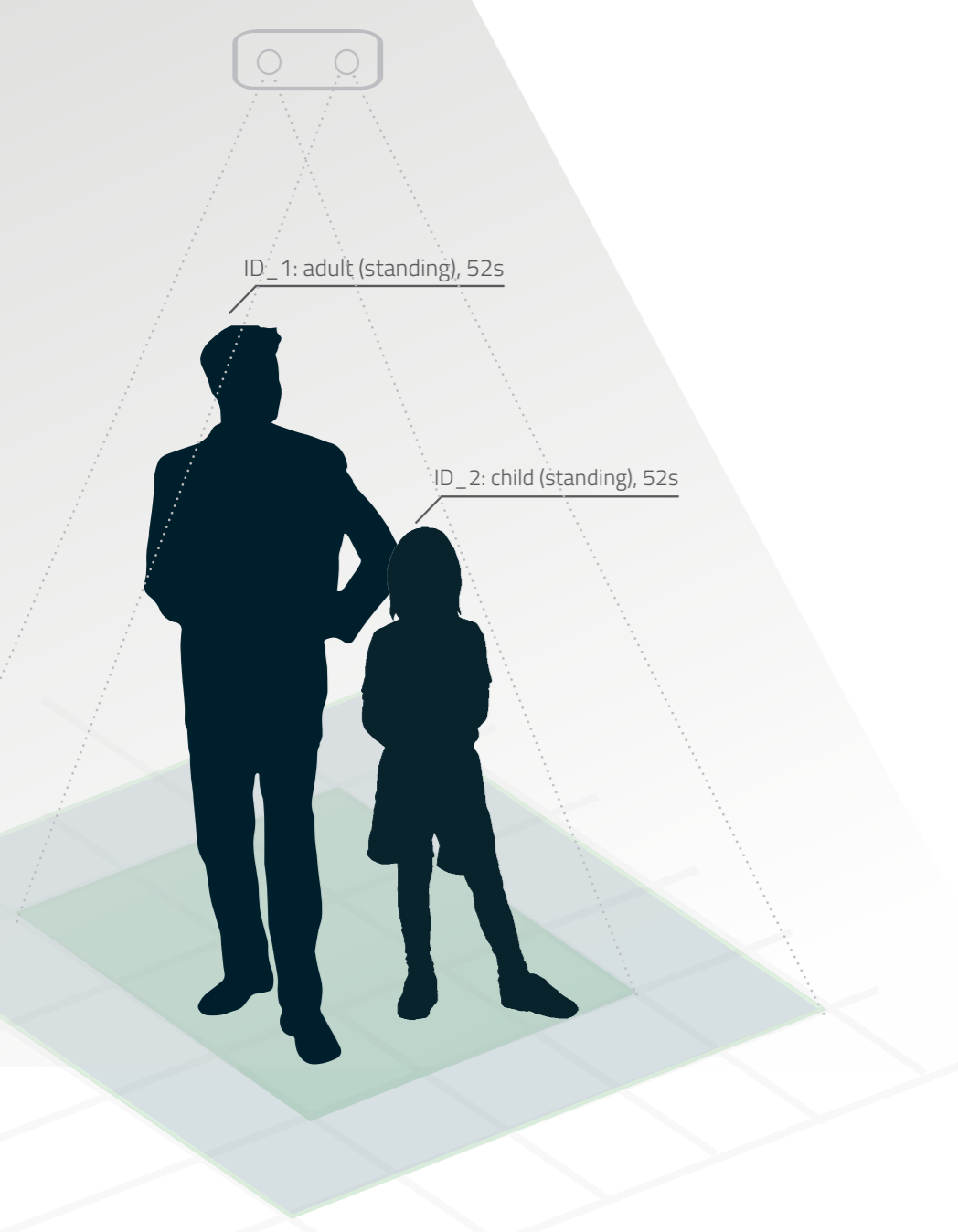


INTELLIGENT 3D VISION SENSORS

PRODUCT PORTFOLIO



PEOPLE-COUNTING, PATH DETECTION,
SECURITY AND MORE



ID_1: adult (standing), 52s

ID_2: child (standing), 52s



INTENTA 3D-VISION TECHNOLOGY

Our Intenta 3D Vision smart sensors are based on state-of-the-art stereovision technology. By using two lenses, a three-dimensional view of the environment is generated. This principle is comparable to human vision. Based on height information, people can be detected very precisely and their walking paths can be tracked over large areas. This image data is processed in real time directly on the sensor. Our sensors can thus provide event data for downstream analysis without transmitting camera images. As such they meet all the requirements of the General Data Protection Regulation (DSGVO & GDPR).

APPLICATIONS



RETAIL

Optimize retail - Intelligent store analysis through people counting, walkway detection and dwell-time measurement.



EVENTS

Large-scale and precise visitor counting at trade fairs and large events - even with dense groups of people.



TRAVEL

Efficient people flow management and employee utilization through people tracking and counting in airports and train stations.



SMART BUILDINGS

Data for smart building control - easy integration of 3D sensor technology for smart building management.



SECURITY

Detect conspicuous behavior in real-time and keep an eye on the flow of people in security-critical areas.



HEALTH

Reliable personal protection in radiation therapy has been guaranteed for years by our PerMon prevent safety system.

FUNCTIONS

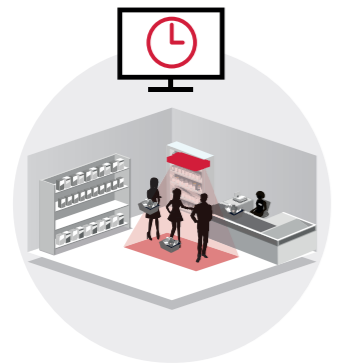
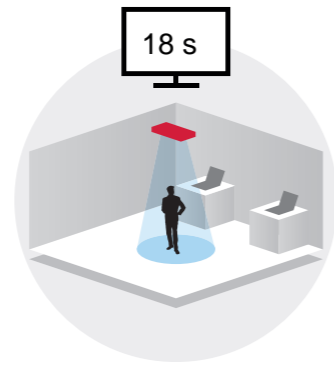


PEOPLE-COUNTING

With the help of Intenta sensors, precise people-counting is possible, distinguishing between children and adults. In addition, information about the walking paths of the individual persons can be provided.

DWELL-TIME MEASUREMENT

Our sensors can measure the amount of time people spend in a freely definable area. For each individual person, it can be determined how long they stayed in which section of the room.

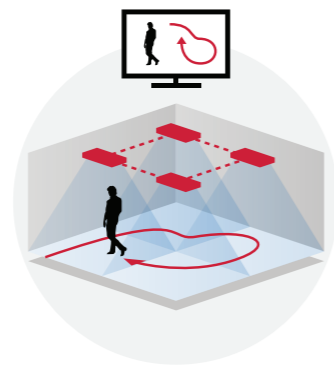


WAIT-QUEUE DETECTION

One application is the detection of long waiting times at checkouts, service counters or entrances. If the number of people or the dwell time is exceeded, automatic signaling can be used, for example, to request additional personnel to staff more checkouts. The sensors help to efficiently increase service quality.

PATH DETECTION

The intelligent networking of several sensors allows large areas to be analyzed. The paths of individual persons can thus be reliably tracked across multiple sensors. More details on multi-sensor tracking on page 8.

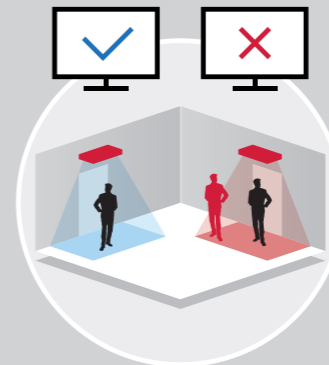
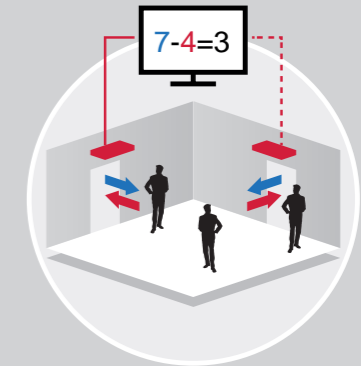


SCAN FOR OUR
FEATURE CLIP



OCCUPANCY MANAGEMENT

Record the number of people on site or at your event locations in real time. When the maximum level is reached, our system, in combination with PerMon xcount or other analysis software, automatically issues an alert for a targeted regulation of admission, allowing for more comfort and safety.

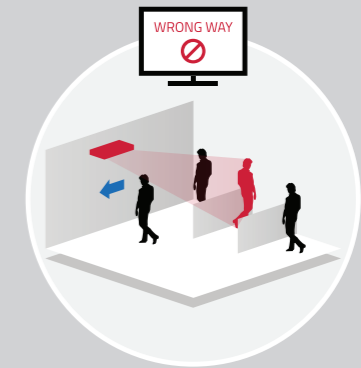


ACCESS MONITORING

Intenta sensors increase the security of an access control system by recording the number of people in the controlled area. The system automatically reports violations of security rules (e.g. more than one person, fast following or tailgating) and blocks access automatically. Image documentation of violations is possible.

WRONG-WAY DETECTION

Intenta sensors enable stable counterflow detection. Prohibited directions of movement are reliably detected in security gates at airports or other safety-critical areas.



UNUSUAL BEHAVIOUR

Our sensors reliably detect whether and how long people are in an area as well as what their posture is. Conspicuous behavior such as loitering or flash mobs is automatically detected. Thanks to 3D room monitoring down to floor level, even prone persons can be detected.

INTENTA S1000



NEW

VARIANTS	MOUNTING HEIGHT
INTENTA S1000-SLC	2,20M - 3,00M
INTENTA S1000-MC	2,50M - 5,00M



PEOPLE-COUNTING & OCCUPANCY MANAGEMENT



DWELL-TIME MEASUREMENT



WAIT-QUEUE DETECTION

OUR SPECIALIST FOR PEOPLE COUNTING

The Intenta S1000 people counter is an easy-to-integrate and also cost-effective solution with a focus on people counting and dwell time measurements. The functionality is based on proven algorithms and stereovision principle of our Intenta S2000 multifunction sensors.

The people counter is configured via an intuitive web interface and can be easily connected to higher-level systems via extensive interfaces. This sensor is compatible with our PerMon xcount system for the analysis of your visitor or customer statistics. For the retail sector, it provides reliable data for determining the absorption rate and conversion rate.

HIGHLIGHTS

- ✓ At least 98% counting accuracy
- ✓ Data accurate to the second
- ✓ Integrated mount
- ✓ Concealed interfaces and protected optics
- ✓ Compact and discreet optics
- ✓ Multisensor tracking (MST) up to 9 sensors

INTENTA S2000



FULL FLEXIBILITY FOR INDIVIDUAL APPLICATIONS

The Intenta S2000 lays the foundation for our entire sensor product range. It is suitable for installations with high demands on individuality due to its wide range of functions, diverse interfaces and analysis options.



INTENTA S2100 SECURITY

The Intenta S2100 security is a tamper-proof, tiltable housing variant with all the functions of the Intenta S2000 for areas of application with increased security requirements. Installation height analogous to Intenta S2000.

HIGHLIGHTS

- ✓ Flexible mounting angle 0-45°
- ✓ Optional color video
- ✓ Digital inputs and outputs
- ✓ Optional security housing
- ✓ Multisensor tracking (MST) up to 9 sensors

VARIANTS	MOUNTING HEIGHT
INTENTA S2000-SLC	2,20M - 3,50M
INTENTA S2000	2,50M - 8,00M
INTENTA S2000-HC	5,00M - 10,00M
INTENTA S2000-SHC	7,00M - 12,00M



PEOPLE-COUNTING & OCCUPANCY MANAGEMENT



DWELL-TIME MEASUREMENT



WAIT-QUEUE DETECTION



ACCESS MONITORING

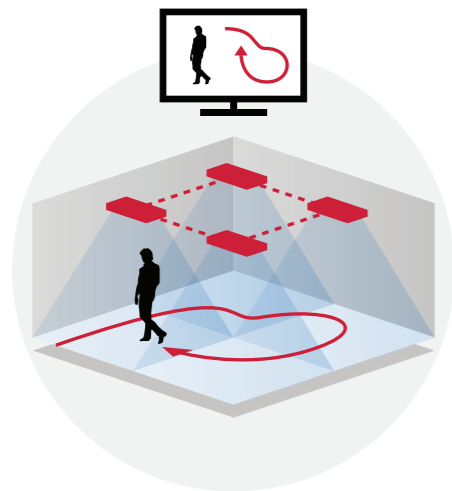


WRONG-WAY DETECTION



UNUSUAL BEHAVIOUR

MULTISENSOR-TRACKING



LARGE-SCALE ANALYSIS WITH FEW SENSORS

The intelligent networking of several sensors allows the walking paths of individual persons to be analyzed over large areas. The combination of up to 9 sensors is possible, which ensures complete people counting in particularly large or irregular areas.

The arrangement of the sensors can be chosen at will, even at different heights or with a combination of different sensor variants. The analysis options correspond to the complete range of functions of a single sensor. Configuration is carried out as usual via the sensor's web interface.

3D-VISION TECHNOLOGY



OPTIONAL HD-VIDEO STREAM



DSGVO / GDPR COMPLIANT
THROUGH EMBEDDED DATA
PROCESSING



PRECISE OPTICAL
OBJECT DETECTION



STABLE AGAINST CHANGES IN
BRIGHTNESS



TYPE AND POSE CLASSIFICATION

YOUR BENEFITS

DEVELOPED AND
MANUFACTURED
IN GERMANY

INTENTA 3D-VISION SENSORS

The software and hardware of our sensors are developed and produced at our headquarters in Chemnitz, Germany. We therefore offer all solutions from a single source and can respond specifically to your wishes.

- + High accuracy, even in dense groups of people
- + Integration with manufacturer-independent platforms
- + Variable installation height (2.2m to 12.0m)
- + Easy installation and setup
- + Automatic calibration
- + Large area analysis through MST
- + Fail-safe update
- + Open interfaces for easy integration
- + Individual pre-configuration (Settings and Logo)
- + Sustainable through continuous feature upgrades

ABOUT US

MORE THAN 10 YEARS OF EXPERIENCE IN IMAGE PROCESSING AND DATA FUSION

Our development work and expertise is broadly based and sustainable in three business areas, including 3D vision sensor systems, software engineering, and automotive software. In the latter, we develop production-ready software components for driver assistance and navigation systems for well-known automobile manufacturers. In doing so, we meet the highest quality and safety standards in software development up to ASIL-D.

180 EMPLOYEES

Our team is our strength. That is why we foster talent at all levels. In doing so, we rely on active knowledge transfer and training across all business units in order to be able to face all tasks with the highest demands and standards.

THREE LOCATIONS IN GERMANY

In addition to our headquarters in Chemnitz, we also have branch offices in Ingolstadt and Hamburg.

CONTACT INFORMATION

We will be happy to advise you on our products and customized system solutions:

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