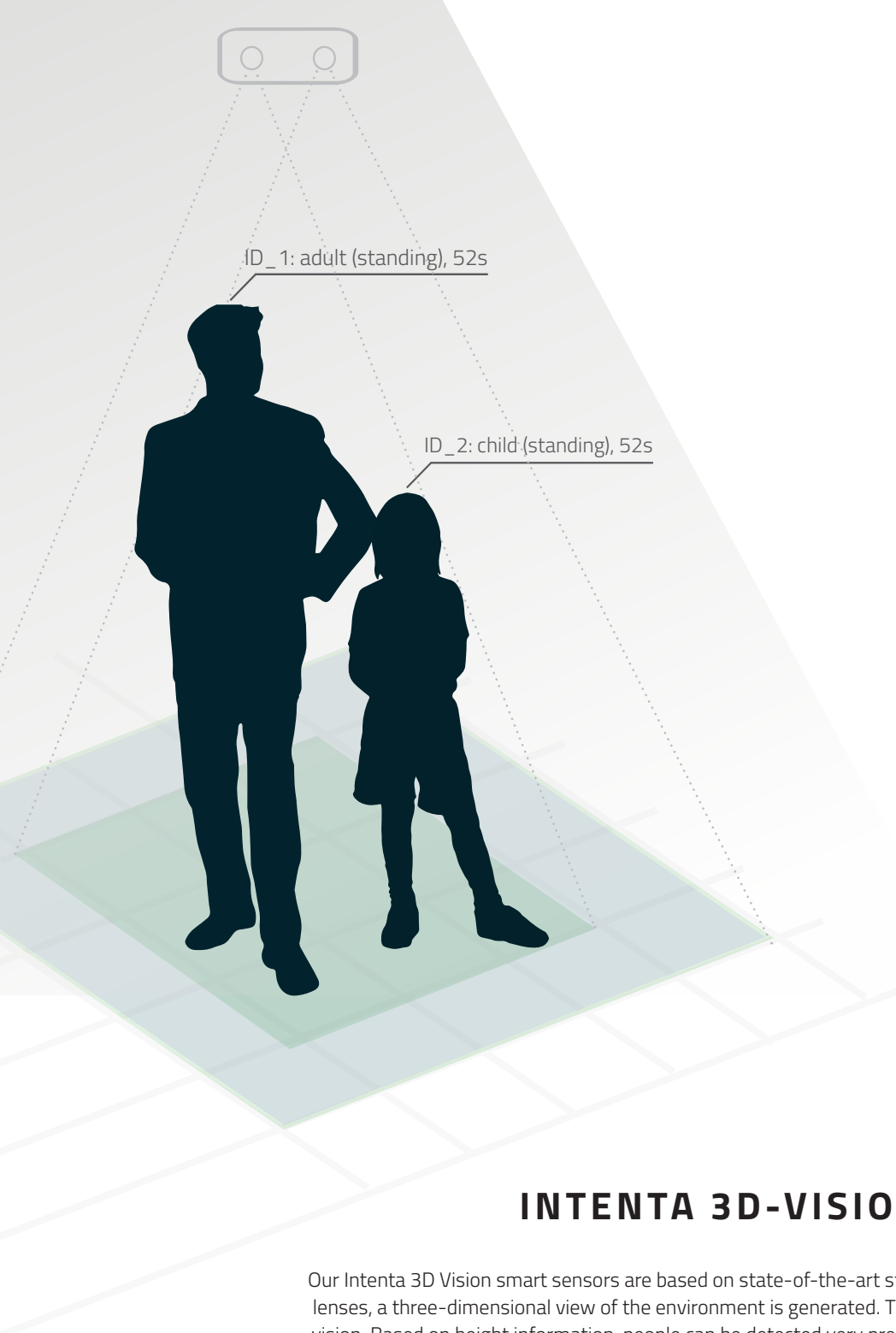


## INTELLIGENT 3D VISION SENSORS

### PRODUCT PORTFOLIO



PEOPLE-COUNTING, PATH DETECTION,  
SECURITY AND MORE



## 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).



OPTIONAL HD-VIDEO STREAM



TYP AND POSE  
CLASSIFICATION



PRECISE OPTICAL OBJECT  
DETECTION



DSGVO / GDPR COMPLIANT  
THROUGH EMBEDDED DATA  
PROCESSING



STABLE AGAINST CHANGES IN  
BRIGHTNESS

## 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

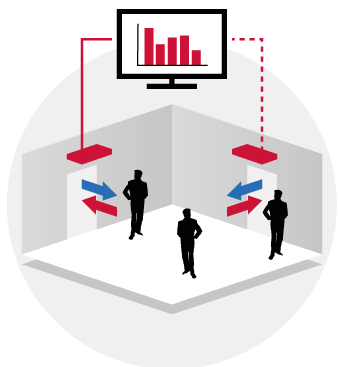
Detect conspicuous behavior in real-time and keep an eye on the flow of people in security-critical areas.



### HEALTH

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

## FUNCTIONS

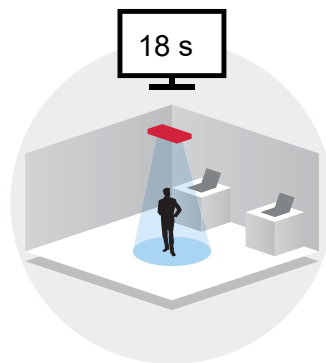


### PEOPLE-COUNTING

Using Intenta Sensors, it is possible to count people accurately, distinguishing between children and adults. In addition, it can be used to provide information about the walking paths of the individual people.

### DWELL-TIME MEASUREMENT

Our sensors can measure the amount of time people spend in a freely definable area. For each individual person, it is possible to determine how long they have been in which part of the room..

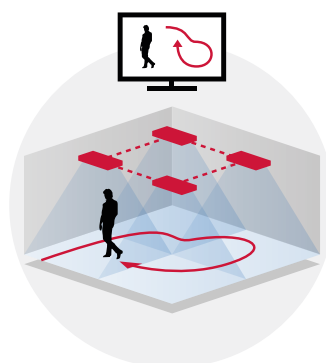


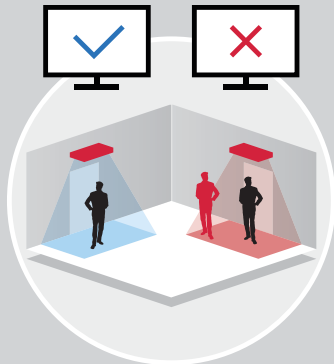
### QUEUE DETECTION

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

By intelligently combining multiple sensors, large areas can be analyzed. The paths of individual people can be reliably tracked across multiple sensors. More details on Multi Sensor Tracking on page 8.





## 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.

An image documentation of violations is also 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 if and how long people are in an area, as well as their posture. Unusual 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



### VARIANTS

INTENTA S1000-SLC

INTENTA S1000-MC

### MOUNTING HEIGHTS

2,20M - 4,50M

2,50M - 6,00M



PEOPLE-COUNTING &  
OCCUPANCY MANAGEMENT



DWELL-TIME MEASUREMENT



QUEUE DETECTION



PEDESTRIAN COUNTING

## OUR SPECIALIST FOR PEOPLE COUNTING

The Intenta S1000 people counter is an easy-to-integrate and also cost-effective solution focused on people counting and dwell time measurement. The functionality is based on proven algorithms and the stereovision principle of our Intenta S2000 multifunction sensor.

The Intenta S1000 is configured via an intuitive web interface. With a wide range of interfaces, our sensors can be easily connected to subsidiary systems like an analytics software for an even more precise analysis of your customer footfall. Due to their high accuracy the sensors provide reliable data for determining the absorption or conversion rate.

In combination with an additional mounting kit, the S1000 can also be used for pedestrian counting. In addition to the counting data, the dwell time of people in front of the window can be analyzed for even further information outside your shop.

## HIGHLIGHTS

At least 98% counting accuracy

Remote Management

Real-Time Data

Concealed interfaces and  
protected optics

Multisensor tracking (MST)  
up to 9 sensors

### Intenta S1200 outdoor



The durable Intenta S1200 outdoor offers you the possibility to use the functionalities of our Intenta S1000 in outdoor areas. This includes people counting and level measurement. The robust outdoor housing protects the sensor against environmental influences. The RJ45 outdoor connector makes connection easy and ensures reliable data transmission. The swivel mounting bracket allows for flexible installation.

## INTENTA S2000

### FULL FLEXIBILITY FOR INDIVIDUAL APPLICATIONS

The Intenta S2000 laid the foundation of our entire sensor product range. It is suitable for installations with high demands on individuality due to its wide range of mounting heights, 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 use cases with high security requirements. Its installation height is the same as the Intenta S2000-MC.

### HIGHLIGHTS

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

#### VARIANTS

INTENTA S2000-SLC

INTENTA S2000-MC

INTENTA S2000-HC

INTENTA S2000-SHC

#### MOUNTING HEIGHTS

2,20M - 5,00M

2,50M - 8,00M

5,00M - 10,00M

7,00M - 12,00M



PEOPLE-COUNTING & OCCUPANCY MANAGEMENT



DWELL-TIME MEASUREMENT



QUEUE DETECTION



ACCESS MONITORING



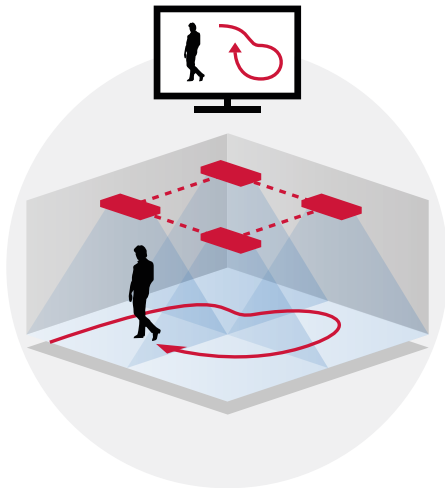
WRONG-WAY DETECTION



UNUSUAL BEHAVIOUR



## MULTISENSOR-TRACKING



## LARGE-AREA MONITORING WITH FEW SENSORS

By connecting several sensors together to one combined grid it's possible to analyze the walking paths of individual persons over large areas. Up to 9 sensors can be combined to provide uninterrupted people tracking in large or difficult areas.

The arrangement of the sensors can be at will, even with different mounting heights or as a combination of different sensor types. The analysis capabilities are equivalent to the full functionality of a single sensor. The configuration is done as usual via the web interface of the sensor.

## PEDESTRIAN COUNTING



## IT'S WORTH TAKING A LOOK OUTSIDE

The high accuracy of our 3D sensors makes it possible to collect reliable data on footfall in front of shops. In addition to counting pedestrians, the sensor can also measure the time people spend in front of shop windows, providing additional information on the effectiveness of advertising. The sensor is mounted inside the shop window using a special mounting device and then reliably provides anonymous data about the pedestrian flow in front of the shop. The Intenta S1000 is used to measure foot traffic.



## YOUR BENEFITS



### INTENTA 3D-VISION SENSORS

The software and hardware of our sensors are developed and produced at our headquarters in Chemnitz, Germany. This means that we can offer you all of our solutions from a single source and can respond to your specific needs.

- + High accuracy, even in dense groups of people or crowded areas
- + 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 STEREO VISION**

Since 2011, we have been developing high-precision optical 3D sensors for a wide range of applications. The introduction of the Intenta S2000 in 2014 and the successful implementation of numerous customer projects demonstrate our extensive expertise in the development, production and marketing of stereo vision sensors. Our high quality standards and continuous growth have enabled us to establish a global presence and gain many satisfied customers and partners. Today, we offer a mature product portfolio with innovative solutions covering a wide range of demanding applications.

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### **RELIABLE PARTNER FOR YOUR INDIVIDUAL DEVELOPMENT**

The production of our optical sensors as well as the development of their software and hardware takes place at our headquarters in Chemnitz, Germany. This gives us the opportunity to implement your individual demands into special customer developments. Don't hesitate to contact our sales team if you are looking for an individual development.

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### **COMBINED EXPERTISE**

Intenta ARC GmbH is part of the Intenta Group, which offers a comprehensive range of services in the field of digitalisation and software engineering. With its extensive expertise, the group supports customers worldwide in optimising business processes and developing innovative digital solutions.

## CONTACT INFORMATION

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

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