Evaluation Kit

Xovis
PC-Series
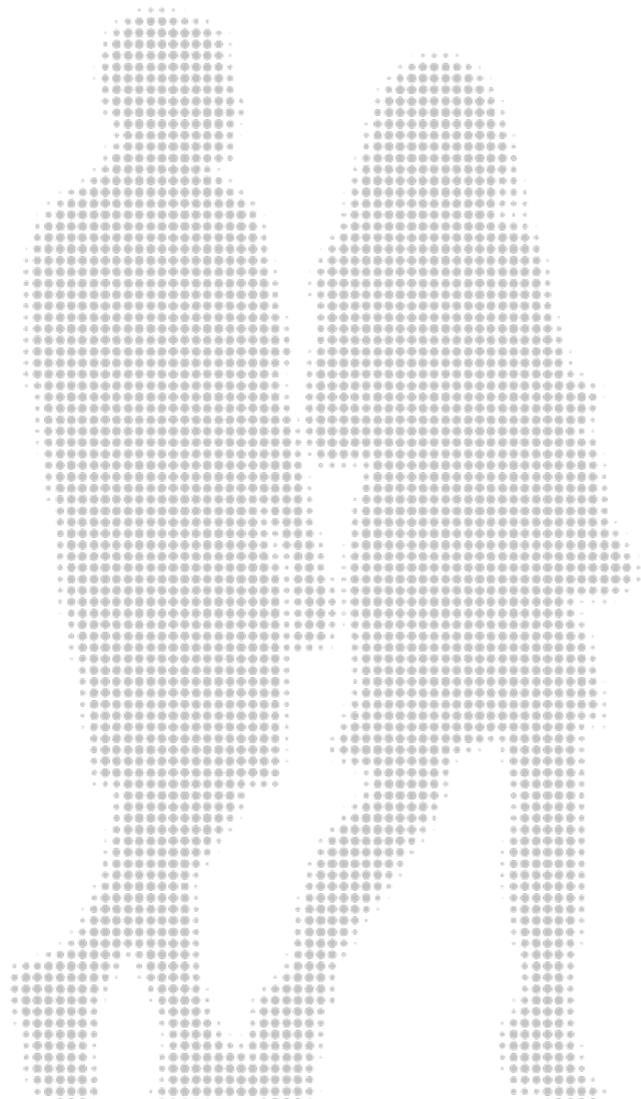
Way more than people counting

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Welcome

The Xovis Person Tracking Technology is the most complete people counting and tracking application available on today's market.

The technology empowers Retailers to collect valuable data and provides them with compre-hensive insights. On top of the sensor system, Xovis develops software solutions targeted at the specific applications of different markets.

Get familiar with the Xovis PC-Series portfolio and have a look at the comprehensive overview of the product and accessories, you find inside this PC-Series Evaluation Kit.

Any products described in the Evaluation Kit are available in stock. For any software upgrades or for downloading the latest manuals, please register via the Xovis Customer Support Portal **support@xovis.com**.

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Evaluation Kit

The PC-Series Evaluation Kit contains the herein described products:

PRODUCT	DESCRIPTION	PART NO.	QTY	PRODUCT	DESCRIPTION	PART NO.	QTY
	The PC2R is the standard entry model of the PC-Series with WiFi/Bluetooth monitoring	PC2R	1		PC2 surface mounting kit, allowing to install the sensor on concrete ceilings as well as offering a side exit for the ethernet cable.	PA-PC2-SM	1
	Gender Statistics plugin license, enabling the sensor to distinguish female and male people.*	PI-GES	1		PC2 flush mounting kit, for installations on a suspended ceiling.	PA-PC2-FM	1
	Staff Exclusion plugin licence, allowing to exclude staff wearing the Xovis Staff Exclusion name tag from being counted.*	PI-STE	1		Small pivot mounting kit, allowing the installation on uneven ceilings or to tilt any PC2 indoor model.	PA-PC-PS	1
	Name Tag with red Xovis Staff Exclusion Pattern.	PA-PC-NTR	1		Small mounting plate ensuring the correct positioning of any PC2 indoor model in case of a replacement.	PA-PC-MPS	1
	Name Tag with basalt gray Xovis Staff Exclusion Pattern.	PA-PC-NTB	1		PC2 drop pole adapter to install the PC2 sensor on any standard drop poles.	PA-PC2-DP	1
					PC2 1/4″ thread adapter allows to use any standard camera holder.	PA-PC2-TA	1

*The Staff Exclusion and Gender Statistics plugin are only available after the free upgrade to firmware V4.2 or higher. Later downgrades are not supported.

Feature Overview

The basic configuration of a PC-Series sensor includes following features:

- People Counting
- Zone occupancy
- Dwell time
- Event and object stream
- Heat and height map

Special Features

- 3D stereo vision technology with the widest viewing angle available on the market
- Unique sensor model portfolio to support any area/height situation
- Installation heights from 2.2m to 20m
- All-in-one solution: embedded device with no need for additional hardware
- Plug-and-play configuration
- Powerful AI-based plugins
- Fast integration by system integrators
- Robust operation with counting accuracy up to 99%
- Local data storage for offline operations
- Built-in WiFi/Bluetooth module
- Multisensor with up to 9 sensors
- Swiss quality product

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Feature Highlights

ROBUST OPERATION

The 3D stereo vision technology is highly robust against all kinds of external influences such as shadows, light changes or heat emissions.

REAL-TIME ANALYSIS

The whole 3D image processing is performed on the sensor itself. No additional servers are needed for image processing. In addition, the PC-Series features an ultra-wide viewing angle to cover wide passages and large areas with one single sensor.

TRACKING

Besides the standard people counting and zone occupancy applications, the robust and unique tracking technology provided by the PC-Series sensor offers the basis for a broad range of additional applications.
Every person that enters the visible area of the sensor is given a unique ID and is tracked continuously.

AI PLUGINS FOR IN-STORE ANALYTICS

Propel the insight gained from your counting data. Enrich people counts with demographic information and reduce bias in your data set. Exclude staff members from being counted and summarize groups of individuals into buying units.

WIFI/BLUETOOTH MODULE

Wireless device monitoring addresses various use cases such as the identification of recurring customers and the detection of staff presence.

FUTURE PROOF

Xovis PC-Series is a future-proof and safe investment: Already installed sensors can be upgraded in the field with current firmware upgrades to apply new features.

FAST INSTALLATION

All PC-Series sensors have a built-in wizard supporting a quick first-time setup and configuration. Since the installer is guided through the setup process, only basic know-how is required to perform the initial configuration.

Also, the well organised and state-of-the-art Web-GUI allows performing any maintenance activities efficiently.

INTEGRATION

Thanks to the simple XML-based interface, the sensor can be quickly integrated into existing systems.The sensor can be conveniently configured and read off via the web interface. An API is available for system integrators to realize a full sensor integration supporting all features.

COUNTING LINES

Counting lines are multipoint lines which can be adapted perfectly to any situation and count people in both directions when passing the line.

Each sensor allows to draw up to 99 independent counting lines and can monitor simultaneously forward and backward crossings.
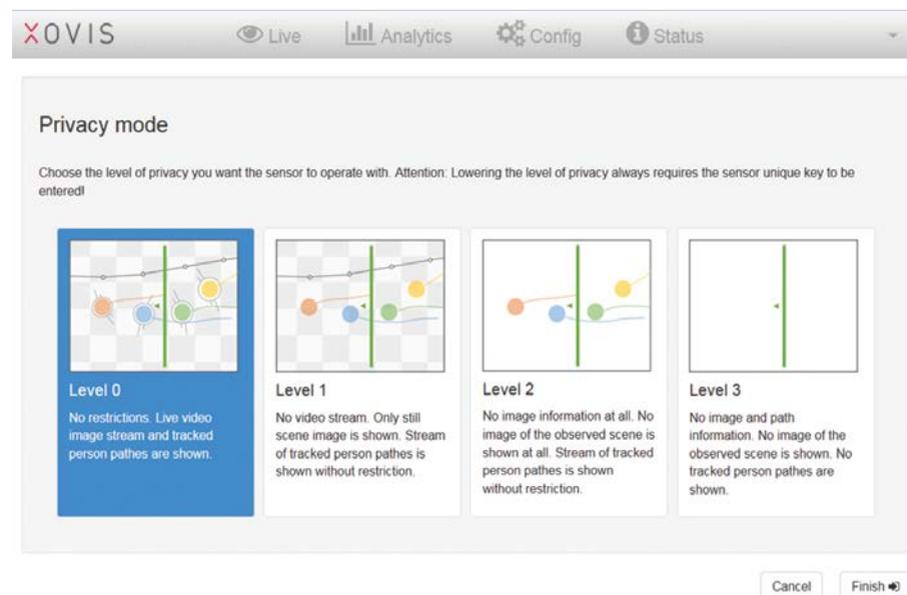
Feature Highlights

ZONES

The basic functionality of the PC-Series also includes zone occupancy as well. It shows the current number of persons present in a particular zone. In addition, zones can be defined as activation/deactivation zones for a dedicated counting line to perform a respective logical function.

On a single sensor up to 99 zones can be configured and monitored simultaneously.

PRIVACY PROTECTION

The PC-Series contains a mechanism to define up to four different privacy protection levels to fulfil every possible data privacy requirement.
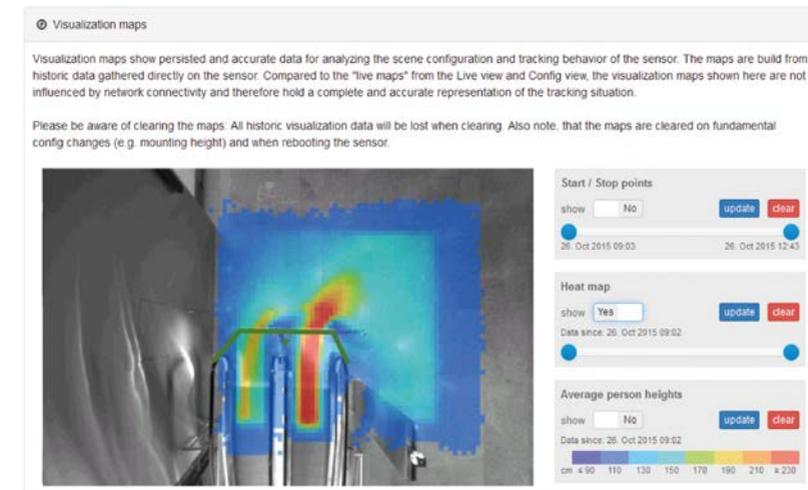
No video stream is leaving the sensor; only metadata is sent out.

VISUALIZATION MAPS

The analytics tab of the built-in Web-GUI contains four visualizations:

- Existing count data chart: allows to visualize the data inside the built-in database
- Start/stop point map: shows where a person has been generated and deleted
- Heat map for trend analysis
- Heightmap showing the average person height in the scene

PLUGIN ARCHITECTURE

A significant advantage of the PC2-Series it's plug-in architecture that results in functional flexibility at the sensor level. A broad range of plugins are available, ask us for detailed information.

Feature Highlights

ONE PORTFOLIO FOR VARIOUS APPLICATIONS

With various sensor models, the PC-Series covers installation heights from **2.2m** to **20m**, allowing to monitor up to **100m²** of effective tracking area with a single sensor.

The coverage capabilities of the full portfolio are described in the Selection Guide.
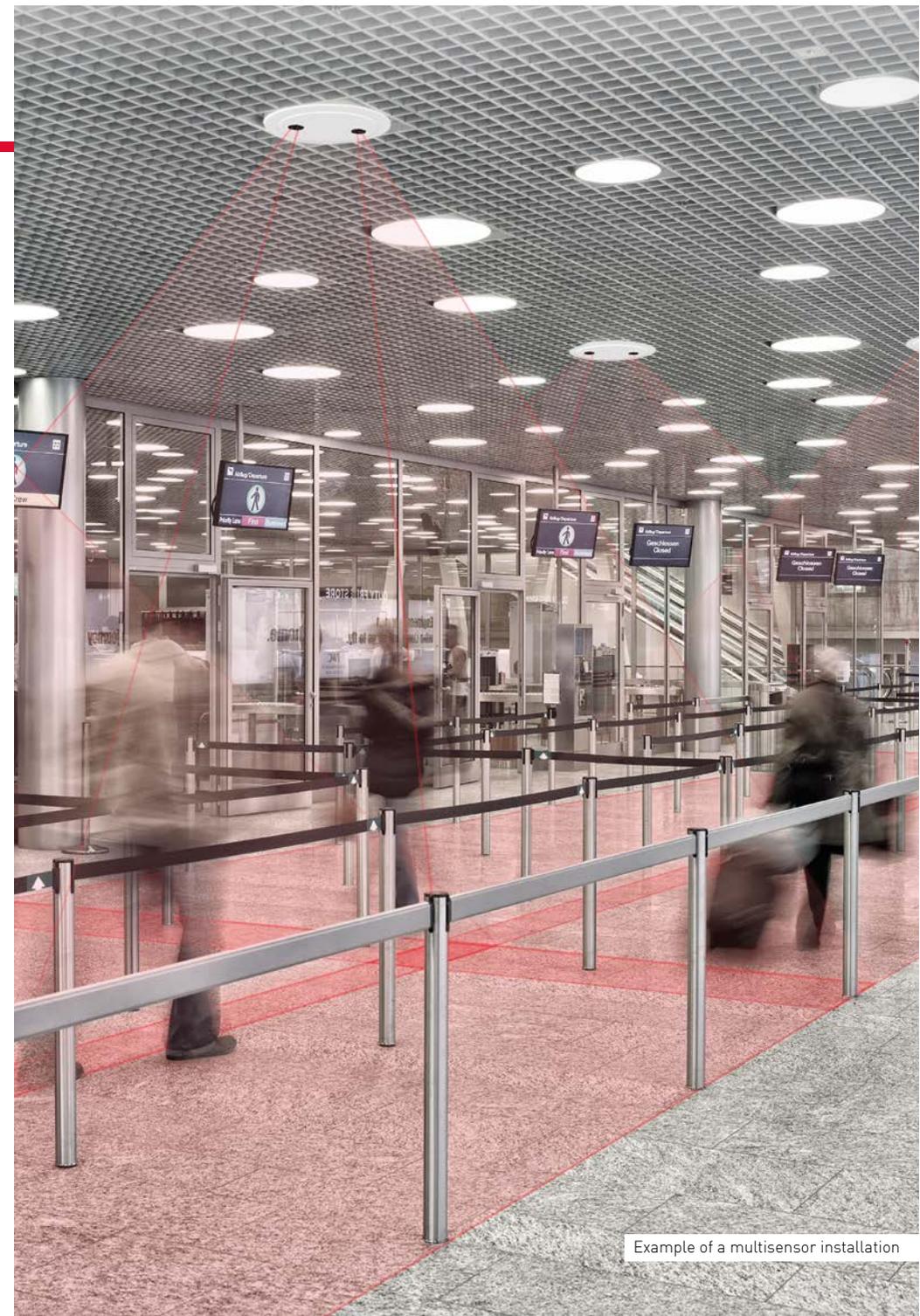
MULTISENSOR

Within a few minutes, a Multisensor with up to 9 sensors can be fully configured, supported by the automated stitching process and the dedicated Multisensor wizard. All configuration and processing performed on the sensors itself, there is no need for any additional server hardware or software. The Multisensor is tracking people through all involved sensors, handing over the person ID's from one sensor to the other. Multiple zones and counting lines can be monitored simultaneously, generating event-based information on a person ID level.

Also, the transmission of the coordinate stream of every single person opens the door for new powerful analyses and visualisations.

WIDE RANGE OF ACCESSORIES

The robust body of a PC-Series sensor allows to install it directly on the ceiling. Also, Xovis offers a wide range of accessories enabling our customers to fulfil various installation requirements.

Example of a multisensor installation

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Technical Data PC-Series

WORKING PRINCIPLE	3D stereo vision distance measurement
INSTALLATION ANGLE	+/-15° in x-axis +/- 5° in y-axis
OPERATION TEMPERATURE	0°... 45 °C
AS OUTDOOR VERSION	-25°...40°C
STORAGE TEMPERATURE	-20°... 70°
AIR HUMIDITY	20 ... 80%
IP PROTECTION	IP40 / IP65 (outdoor)
CONNECTION	RJ45 Ethernet, cat.5e
POWER SUPPLY	PoE Class 0 (IEEE 802.3af)
POWER CONSUMPTION	< 5W
REQUIRED ILLUMINATION MIN.	2 lux / 9 lux (outdoor)
DATA STORAGE	up to 120 days
MULTISENSOR	up to 9 sensors
SIZE (LXWXH)	PC2R: 13 x 9.4 x 3 cm
WEIGHT	PC2R: 250 g
MOUNTING HEIGHT	PC2R: up to 6m

Portfolio Overview PC2R Models

The PC2R with its 10cm distance between the lenses can be used between 2.2m and 6.0m depending on the model (PC2R-UL). The coverage depends on the installation height and the chosen model. This overview helps to find the right product concerning the installation height and the required coverage.

INST. HEIGHT	PC2R	PC2R-L	PC2R-UL
2.5M	2.26M X 1.46M	1.86M X 1.06M	2.50M X 2.16M
3.0M	3.53M X 2.10M	3.73M X 2.10M	4.88M X 4.04M
3.5M	4.69M X 2.95M	5.65M X 3.19M	6.75M X 5.70M
4.0M	5.84M X 3.68M	7.49M X 4.24M	-
4.5M	7.00M X 4.41M	9.34M X 5.29M	-
5.0M	7.00M X 5.00M	10.65M X 6.35M	-
5.5M	7.00M X 5.00M	10.65M X 7.40M	-
6.0M	7.00M X 5.00M	10.65M X 7.98M	-

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