

Professional Series Intrusion Detector

Knows when to alarm. Knows when not to.



BOSCH

Invented for life



Now Featuring
Multi-Point
Anti-Mask
with Spray Detect



▶ MOTION DETECTED
▶ 10 FEET
▶ NO ALARM



▶ MOTION DETECTED
▶ 20 FEET
▶ ALARM!



▶ MOTION DETECTED
▶ 50 FEET
▶ NO ALARM



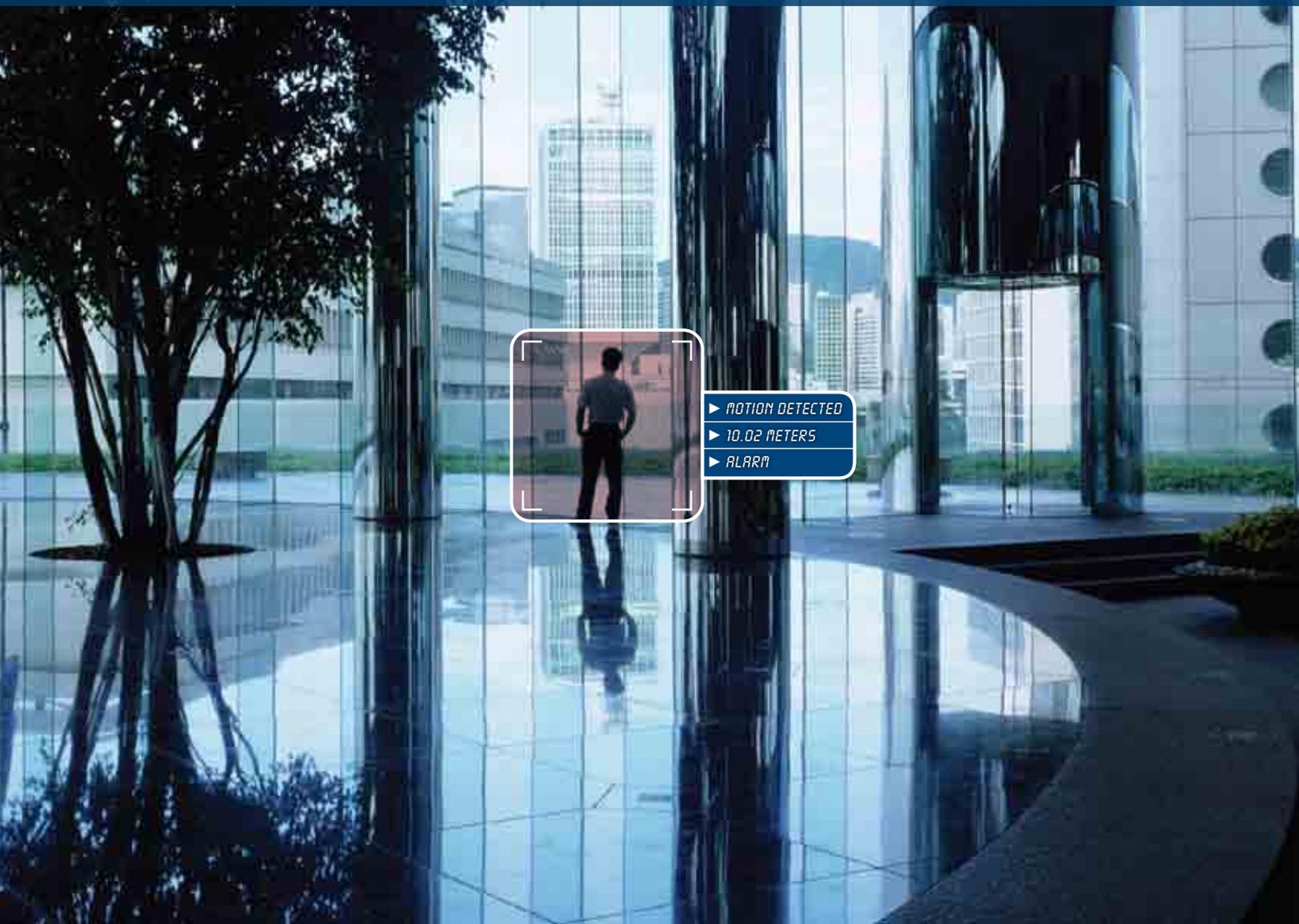
▶ MOTION DETECTED
▶ 25 FEET
▶ NO ALARM

Intelligent motion detection with unmatched versatility

If you could create a smarter motion detector, what would it do? Catch intruders, obviously, but without false alarms due to plants, small animals or the headlights of passing cars.

Introducing Bosch Professional Series Detectors: versatile, easy-to-install units that virtually eliminate false alarms, while improving catch performance. They're the smartest detectors in the world, and they're only from Bosch.

Designed with efficiency in mind, the Professional Series Detectors allow the end user to easily adapt the coverage area to fit any application. Incredibly versatile, Professional Series Detectors are the only detectors you need to carry.





Five models to choose from for any application reduces confusion and complexity

► **ISC-PPR1-W16**

The most advanced Passive Infrared (PIR) motion detector ever developed by the brand that sets the standard for PIR detector technology

► **ISC-PDL1-W18-G**

This detector incorporates range adaptive microwave Doppler radar and PIR signals into an exclusive, intelligent algorithm to provide the most accurate alarm decision possible

► **ISC-PDL1-WC30G**

Similar to the ISC-PDL-W18-G, but with a long range, narrow field of view coverage pattern

► **ISC-PPR1-WA16**

Similar to ISC-PPR1-W16, but with Multi-Point Anti-Mask Technology with Integrated Spray Detection, and microwave assist technology

► **ISC-PDL1-WA18-G**

Similar to ISC-PDL1-W18-G, but with Multi-Point Anti-Mask Technology with Integrated Spray Detection

Revolutionary Sensor Data Fusion Technology

creates a breakthrough in **intelligent alarm decisions**

While other motion detectors merely react to input from one or two sensors with a simple yes or no decision, Bosch Professional Series Detectors actually integrate and process data from up to 6 different sensors to make intelligent alarm decisions. This exclusive Sensor Data Fusion technology uses a sophisticated microcontroller within the detector to constantly adjust and balance the sensitivities of each sensor, resulting in the most accurate alarm decisions ever.



DOPPLER
MICROWAVE
DATA



LIGHT DATA



ROOM
TEMPERATURE
DATA

Long- and Short-to-Mid-Range PIRs

Bosch infrared sensors are sensitive to even the smallest differences between the temperature of the room and the target. Two PIR sensors (one for long-range; one for mid- and short-range) provide twice the resolution to more effectively monitor the entire coverage area.

Active White Light Suppression

By processing both infrared and white light, the Professional Series Detectors eliminate false alarms caused by stray lights, such as passing headlights.

Dynamic Temperature Compensation

As ambient room temperature approaches human body temperature, the sensitivity automatically increases to a narrow range within a few degrees of human body temperature, thus detecting subtle temperature differences while avoiding false alarms at higher temperatures.

Range Adaptive Doppler Radar

(available on PIR/microwave versions only)

The microwave transceiver automatically adjusts its detection thresholds based on input from the PIR sensors. By integrating the target distance information from the PIR, false alarms from the microwave Doppler radar are significantly reduced.



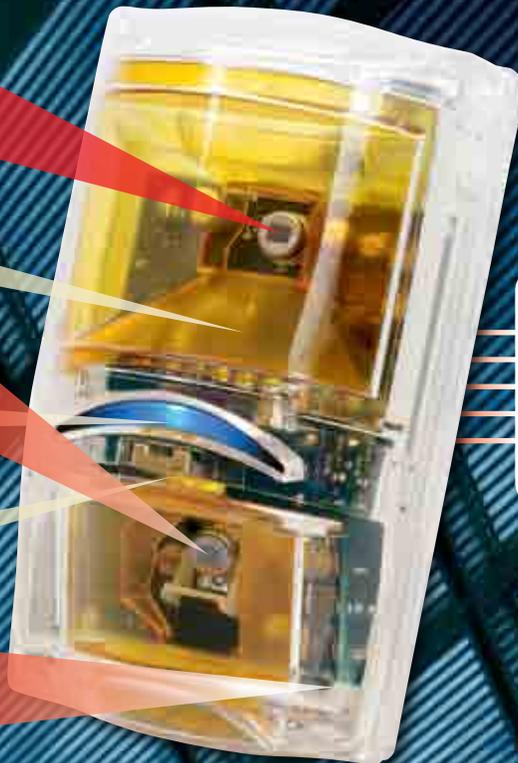
LONG RANGE
INFRARED
DATA



SHORT RANGE
INFRARED
DATA



MULTI-POINT
ANTI-MASK
TECHNOLOGY

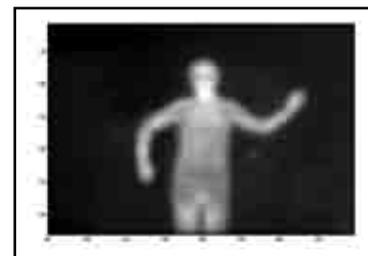


DATA
FUSION



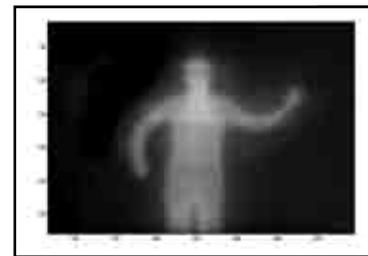
Tri-Focus Optics

Three specially designed Bosch lenses cover short-, mid- and long-range areas to eliminate gaps in coverage all the way from the mounting wall to the detector's maximum stated detection range. By dividing the job among three lenses and multiple sensors, the quality of optical signal for each range is vastly improved, resulting in greater resolution and the ability to distinguish intruders from false alarm sources. Professional Series Detectors monitor 86 zones and combine to form 11 solid curtains of detection within the coverage area.



Multi-Point Anti-Mask Technology

The Professional Series ISC-PPR1-WA16 and ISC-PDL1-WA18-G detectors offer anti-mask technology that is compliant with all of the latest international regulatory standards for detection of objects covering or placed in front of the detector. Using patented prism lenses and active infrared detection, the detector offers protection from all known forms of attack, including fabric, paper, metal, plastic, tape and spray.



IR images created by Bosch tri-focus optics (top) are much sharper than traditional optics (bottom).

Unparalleled Bosch technologies improve catch performance and reduce false alarms

	Traditional Motion Detectors	Bosch Innovation	Benefit of proprietary Bosch Technology
Alarm Decisions	Have only 1 or 2 internal sensors; signals are processed independently and are less accurate.	Sensor Data Fusion	Only Bosch balances and adjusts sensitivities of up to 5 internal sensors and fuses the data to make the world's most intelligent alarm decisions. This results in a 35% improvement in catch performance, while virtually eliminating false alarms.
False Alarm Immunity	Use filters and films to degrade the same light signals used for alarm decisions, reducing catch performance.	Active White Light Suppression	Only Bosch eliminates false alarms due to white light such as car headlights. By incorporating a white light sensor we are able to exclude such traditional false alarm sources.
Application Range	Have only 1 or 2 lenses or mirrors and use long-range sensors for short-range detection, making them prone to false alarms.	Tri-Focus Optics	<p>Only Bosch uses three separate sets of optics and two dedicated detectors for long, mid and short range coverage. This means that intruders stand out more clearly from the background and are more easily and accurately caught.</p> <p>Only Bosch has a simple dipswitch that allows installers to adjust PIR coverage range from 50 to 25 feet (15m to 8m), making each detector extremely versatile to reduce inventory.</p>
Small Animal Immunity	Do not measure distance to target; unable to distinguish between a small target up close and a larger target at a distance, leading to false alarms.	Tri-Focus Optics	Only Bosch measures range to target and can distinguish from a fly at 1 foot and a person at 50 feet, reducing false alarms from small animals and insects.
Consistent Coverage	Require lens and mirror adjustment when detector height is changed, leaving room for human error and inconsistent coverage.	Tri-Focus Optics	Only Bosch provides consistent coverage across entire coverage area, even when height is changed. No lens adjustment required.
Anti-Mask	Use simple active infrared anti-mask technologies.	Multi-Point Anti-Mask Technology	Only Bosch employs Multi-Point Anti-Mask Technology with Integrated Spray Detection that utilizes patented prism lenses and active infrared detection to provide industry-leading resistance to all known forms of attack. This technology complies with all of the latest international regulatory standards.



The **superior durability**
and **ease-of-installation**
you expect



Superior features reduce installation time by 25%
and ensure complete reliability for decades

- ▶ Sealed units prevent damage during installation as well as false alarms caused by drafts and insects passing over sensors, optics or electronics
- ▶ Flexible mounting height allows the detector to be positioned conveniently from 7 to 10 feet (2m to 3m) without adjustment
- ▶ Unique two-piece ergonomic sliding design simply slides into place, requiring only seconds to mount
- ▶ Built-in bubble level allows you to level horizontally and vertically without extra tools
- ▶ Plug-in terminal strips eliminate incorrect insertions and increase connection reliability
- ▶ The LED automatically adjusts intensity to compensate for the ambient light level

A Tradition of Quality and Innovation

For 125 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.



Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.

Bosch Security Systems, Inc.

130 Perinton Parkway
Fairport, NY 14450 USA
Phone: 800.289.0096
Fax: 585.223.9180
www.boschsecurity.us

© Bosch Security Systems, Inc., 2011
Modifications reserved
Printed in United States | 4/11