Human Detector

Human Detector *systems guard and protect cars as part of collections or in show rooms.*

„The value of an object is usually only appreciated once the object has been lost."

Arthur Schopenhauer

Human Detector systems
guard and protect cars

The **Human Detector** system can be quickly installed and represents a powerful, compact security and monitoring system for the deployment in car show rooms, private collections and museums. It protects vehicles and other technical devices effectively against physical contact, theft or vandalism. The **Human Detector** reliably detects if a person touches the monitored object and controls monitoring cameras as well as alarm systems. Our **Human Detector** technology can be implemented into existing systems.
The **Human Detector** offers unique protection for mobile culture assets. The compact modules can be installed on vehicles within minutes. Alert messages are transmitted via radio for distances of up to 300 metres, irrespective of the location of the monitored automobile. *3. The **Human Detector** does not need any networking or a separate power supply. Long term operation is possible with the installed batteries or via the supply system of the vehicle. The **Human Detector** features three physical sensor systems, working independently from each other. The capacitive sensor monitors the outer layer of the object to be protected. Physical contact on the metal surface and metal parts is reliably detected at an early stage. Theft of accessories as well as scratches to surfaces are immediately recognised. The seismic sensor measures the slightest vibration inside the vehicle.
The system detects physical contact with any kind of objects, such as breaking of windows and the opening of doors and hatches. The optional radar sensor monitors the interior area of automobiles.
Someone reaching into the vehicle is immediately detected. In addition the **Human Detector** features a port for the connection of various alarm sensors, such as pressure and motion sensors.
The **Human Detector** provides comprehensive protection for vehicles in car dealerships and collections. Its deployment is cost effective, fast and flexible, and combines video- and alarm technology.
Damages through theft of parts, vandalism and carelessness are sustainably reduced.

Please also refer to the following information:

Human Detector - Museum and Exhibition
Human Detector - Sale Support
These are found under: **www.human-detector.com**

Do you have a particular assignment or task in mind? We would be delighted to provide more information and to design a protection plan for you.

Vehicles in Museums

... can be protected with the **Human Detector** in a sustainable manner. Each vehicle to be secured is equipped with a **Human Detector**. If required, an acoustic alarm is triggered when a vehicle is being touched, and the **Human Detector** centre is being informed via radio. A video camera immediately pans to the relevant vehicle and records the occurrence. Due to the high resolution of modern video cameras, you receive film material, which is admissible at court.
In a museum, the **Human Detector** offers cost-effective protection against theft of parts, vandalism and the well-known “gropers”. The systems are equally suitable for permanent, as well as temporary exhibitions.

Collector‘s and individual vehicles

... are protected with the **Human Detector** in a simple and fast manner. If a person for example touches the vehicle, an acoustic alarm is triggered. The alarm signal can be transferred onto a video surveillance or alarm system if required. An alarm can therefore be triggered via a smartphone app, wherever you are in the world.
The **Human Detector** provides first class protection against theft, vandalism and unintentional damage. Typical examples of deployment are the protection of collector‘s vehicles, vintage cars, high-end sports- and production cars, vehicles in exposed positions (sale events, shopping malls, exhibitions, etc.).

Vehicles at Car Dealerships

... are being secured in- and outdoors by the **Human Detector.**
The system offers high protection against theft of parts and vandalism in outdoor areas. The **Human Detector** controls the surveillance cameras and triggers an alarm, if required. All information can be recorded on digital long-term devices and accessed worldwide. Alarm control centres can be added upon request.
The **Human Detector** offers flexible protection against theft of parts and vandalism in indoor areas. The device can be quickly implemented, due to being supplied via the on-board supply system.
“Offenders”, as well as potential customers, can be reported via a discreet acoustic signal, pager or smartphone.
Sales staff are able to monitor the situation at the relevant model on display on a surveillance monitor or smartphone and react accordingly.

Complete protection
via multi-sensor technology

Commercially available vehicle alarm systems are not capable of monitoring vehicles in showrooms or museums. These devices are exclusively made for monitoring automobiles while parked.

The **Human Detector** comprises several sensors. These sensors provide for the nearly complete monitoring of vehicles in exhibitions and collections. Additional sensors can be added if necessary.

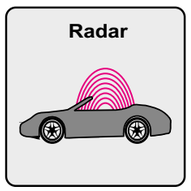
Capacitive Surface Sensor

The surface sensor detects human contact with the metallic surface of vehicles. Even the slightest touch is reliably detected. Depending on the adjusted sensitivity, the approach is detected long before a vehicle is touched. Accessories, radiator ornaments, as well as sensitive brass components are therefore effectively protected.

Seismic Sensor

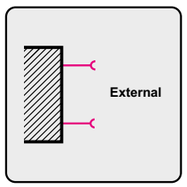
The vibration sensor measures the slightest vibration on the monitored vehicle. They usually occur, when doors and hoods are opened or accessories on the vehicle are disassembled. The Human Detector is equipped with two independently working seismic sensors. Even the slightest vibration is therefore reliably detected.

Radar Sensor (optional)

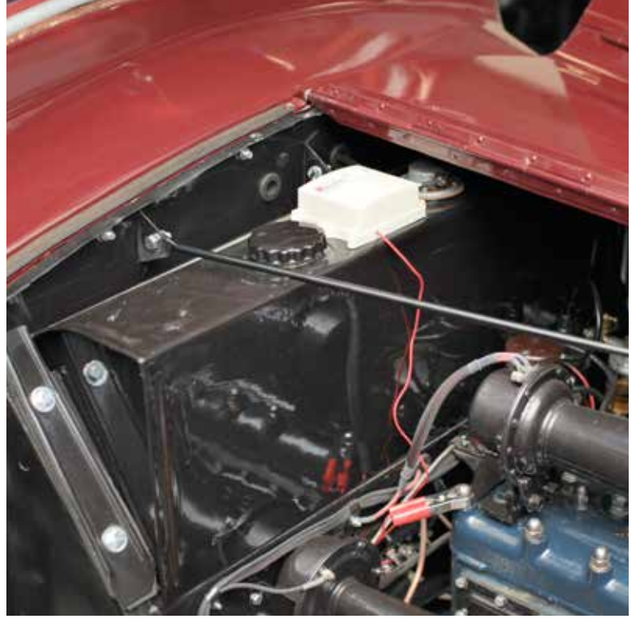


The radar sensor monitors the area above open vehicles. Convertibles can therefore be protected against reaching into the vehicle. The radar sensor is situated in its own housing and is connected to the Human Detector via cable.

External Sensor Connection



Additional alarm sensors can be connected to the Human Detector. Smoke detectors, door contacts, pressure alarm, motion and other sensors can therefore be incorporated.



Human Detector sensor installed on the engine

Human Detector centre mounted to the ceiling

Installation within a few minutes

The costs of an overall solution are not only determined by the purchase price. It is rather much more important to keep installation costs at a low level. The **Human Detector** sensors can be easily mounted onto the vehicle. Even a person without any technical background is capable of carrying out the installation after a short induction or reading the manual.
The protection of individual vehicles is completed in this way. In case of an alarm a loud acoustic sound is triggered.
Several **Human Detector** sensors can be networked with the **Human Detector** centre via encrypted radio technology.

Existing alarm systems are connected to the control centre. The **Human Detector** System controls surveillance cameras and video recording devices. Alarm states are reported on smartphones or networked computer.
You can see your vehicles at any time via smartphone. We recommend the installation of the radio network and the connection of alarm- and video surveillance equipment to be carried out by skilled technicians. We are happy to provide names of suitable companies, or the installation of the system can be carried out by our own service technicians.

Human Detector – Advantages at a glance:

- Complete protection through multi-sensor surveillance
- Detects approaches before contact takes place
- Acoustic alarm on the vehicle for security and sales staff
- Ideal for individual vehicles, car showrooms and museums
- Worldwide access and alert via smartphone
- Wireless network and voltage supply
- Can be integrated with existing alarm and surveillance equipment
- Control of movable surveillance cameras (PTZ)
- Monitoring of large objects due to radio range of 300 metres *3
- Straightforward installation of the **Human Detector** sensors
- **Security made in Germany**

Human Detector

a system growing with its tasks

The **Human Detector** can be operated in a range of different configuration stages. The possibilities range from the protection of individual vehicles with a local acoustic alarm to the protection of entire showrooms, museums and collections. They can be also distributed over separate locations or several floors, if required.

Operation without Networking

The protection of vehicles from physical contact is often requested at exhibitions. It is often sufficient to sound a short warning signal. Careless visitors are warned and staff are made aware of the situation. The **Human Detector** modules are mounted to the vehicle and are not networked via radio. The system can also be networked at a later stage.

Operation with Networking

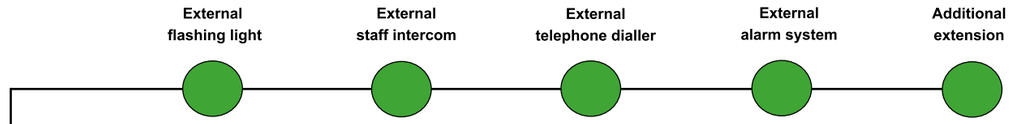
The **Human Detector** modules are connected to the **Human Detector** centre via radio. It comprises a loud alarm siren, emergency power supply as well as ports for connecting external alarm- and surveillance devices. The radio transmission is of a high standard. Availability and condition of the batteries in the **Human Detector** modules are continuously monitored. Failure and attempted manipulation are therefore detected at an early stage.

Connection via radio for distances of up to 300 metres

The networked operation represents the ideal solution for deployment in collections and car dealerships. Visitors and interested parties are not disturbed by acoustic alarms from the vehicle. The recording of all alarm conditions and the subsequent processing of these is carried out at a central location. Recordings and configurations are carried out by a PC. Multilingual control software is included in the consignment.

Standardised interfaces offer flexibility for further expansion

The **Human Detector** centre comprises 8 digital outputs and 1 NC- alarm output. Additional devices such as sirens, alarm systems, personal paging systems, surveillance cameras or telephone diallers can be connected. Each **Human Detector** sensor is capable of triggering an individual alarm. Actions are triggered according to the level of threat. The alarms can be documented and recorded with the help of a computer.



Intelligent Deployment of Video Technology

The **Human Detector** centre controls up to 255 surveillance cameras and network recording devices from different manufacturers with the help of the acknowledged Pelco protocol. All unwanted actions, such as touching of vehicles, can therefore be recorded. Movable PTZ-cameras are precisely directed towards the required object. The monitoring and recording is carried out automatically and does not require additional staff.

Alarm Messages and Pictures on your Smartphone

Messages are send to smartphones and computers via optionally connected network recording devices. In the case of an alarm an alert is sent via e-mail or SMS. Video images can be checked from anywhere in the world to enable you to decide on the required course of action. You are able to view your vehicles via smartphone, irrespective of an alarm occurring.

The Human Detector system at a glance:

Item: HD-SM

Human Detector sensor module

· Compact sensor module for the protection of automobiles
· Integrated seismic and capacitive sensors (adjustable sensitivity)
· Optional radar sensor for the deployment with convertibles
· Connection terminals for external alarm systems (such as motion sensors)
· Isolated output NC (VDS compatible)
· Long term operation with powerful lithium batteries
· Integrated loud transmitter for alarm messages (adjustable duration)
· Secure, encrypted radio operation with a range of up to 300 metres *3
· Installation with screws, glue, ties or magnetic mounting plate
· Measurements sensor housing: 117w x 85h x 41d in mm
· Weight: 160 grams (including batteries)
· Operating voltage: 2 x lithium CR123 batteries or via vehicle on-board supply system
· Scope of delivery: Sensor module, 2 x CR123 batteries, installation instructions

Item: HD-C

Human Detector centre

· Centralized control for **Human Detector** module (max. 1000)
· Secure, encrypted radio operation and large range through separate aerial *3
· Embedded, powerful alarm siren
· RS-485 interface for controlling of external surveillance cameras and recording devices (PELCO)
· 8 x alarm output for controlling video recording devices, sirens, signal lights, etc.
· Installed rechargeable battery for emergency operation in case of power failure
· USB-interface for configuration, including configuration software in German/English
· Measurements housing for wall mounting: 139w x 210h x 58d in mm
· Weight: 460 grams (without power supply)
· Operating voltage: 230V/50 Hz AC
· Scope of delivery: Human Detector centre, power supply, configuration software (Win), installation instructions

Item: RS-1Z

Radar sensor

· Single-zone radar sensor *4
· Range: approx. 2.5m (adjustable)
· Measurements housing: 68w x 60h x 14d in mm
· Weight: 30 grams
· Operating voltage: 12 V DC (connector for **Human Detector**)

Recommended accessories:

· **Replacement batteries for Human Detector**	**Item: CR123**
· **12 V on-board supply cable**	**Item: HD-12V**
· **Potential plate for loose installation**	**Item: HD-GND**
· **Connector cable with clips**	**Item: HD-AS**
· **Magnetic mounting plate**	**Item: HD-MAG**
· **PTZ-surveillance cameras**	**on request**
· **NVR-network video recording device**	**on request**
· **Alarm systems, sirens and accessories**	**on request**
· **Paging systems**	**on request**

„I would never have been able to protect my automobile museum in such an easy and flexible manner, if it hadn't been for the Human Detector modules."

Martin Waltz, Volante Automuseum

*1 The capacitive sensor can only be deployed in a dry environment (indoor).
*2 Capacitive sensors work with conducting materials, such as metal and carbon
*3 The range is variable depending on the type of building and fittings. Maximum distances can be achieved in open spaces.
*4 The optional radar sensor has an independent housing, therefore increasing the total power consumption. For operation an external power supply is required (vehicle on-board power supply or mains).
Technical specifications are subject to change without notice.

Additional accessories are available on request. We would be very happy to provide advice for the integration of our Human Detector systems into your existing alarm- and video surveillance systems.

Distributed by:

Human Detector

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