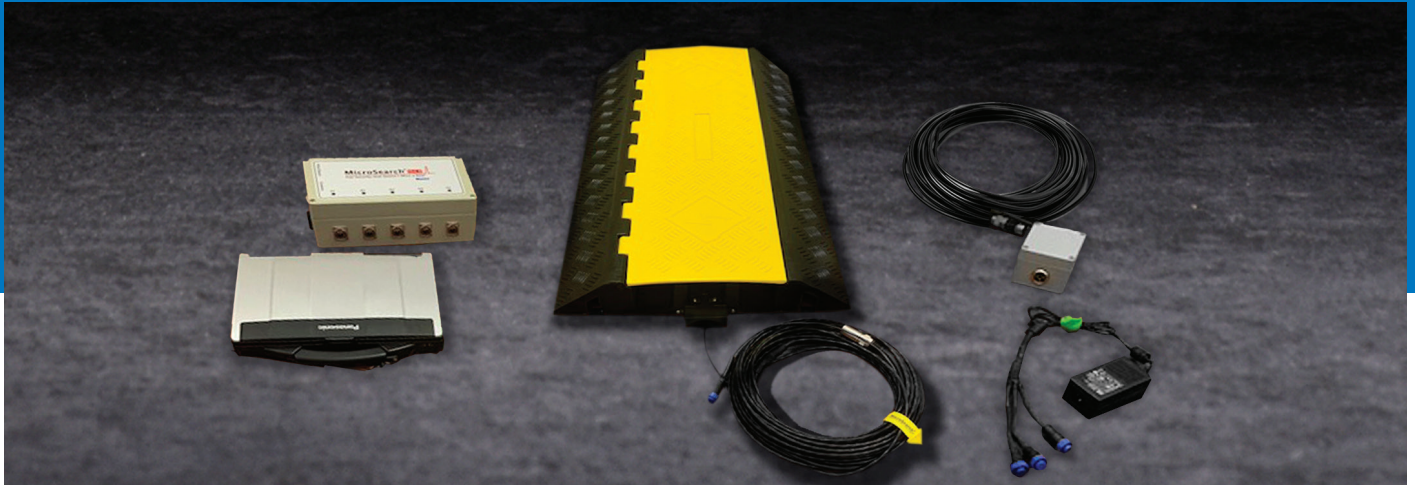


# MicroSearch® Contactless Vehicle Sensor for Touch-Free Human Detection

*Introducing the Next-Generation of MicroSearch Vehicle Sensor: Increased Safety and Portability for Inspectors*



The MicroSearch® human presence detection system detects individuals hiding in motor vehicles of any size by sensing the subtle vibrations of the human heartbeat. MicroSearch is currently deployed around the world protecting critical infrastructures, government and military facilities, correctional facilities and national borders against unauthorized and illegal human presence.

Until now, MicroSearch was deployed with either Wired or Wireless Vehicle Sensors supported by an internal geophone that sends a signal through a control box and into the software-supported laptop provided by ENSCO.

The MicroSearch Contactless Vehicle Sensor (CVS) is the next generation of vehicle sensor and the only product on the market that provides an advanced touch-free system designed to enhance inspector safety and provide even greater portability. All MicroSearch products are known throughout the industry for having the highest degree of accuracy, reliability, cost-efficiency and durability. With the introduction of the CVS, MicroSearch will continue with an uncompromised track record as the industry leader.

MicroSearch CVS incorporates an RF sensor with custom-designed electronics. The operational system is enclosed in a ruggedized and waterproof sensor housing, making it suitable for outdoor use in all climates.

The CVS was developed to allow the MicroSearch system operator the ability to inspect a vehicle to determine the presence of unauthorized persons without having to physically attach sensors directly to the vehicle. MicroSearch CVS provides the same level of effectiveness, accuracy and ease of use that customers depend on with increased flexibility for the inspector.

**Description:** The CVS is similar in size to the current Wired and Wireless Vehicle Sensor. The CVS is backward engineered and compatible with all other features of the current MicroSearch hardware and software, integrating seamlessly into all current MicroSearch operating platforms. The result is a vehicle sensor that offers additional safety and security for the system operators and a reduction in the level of effort needed to conduct vehicle inspection.

#### Technical features include:

- The sensor can be deployed either in a provided speed reduction enclosure (essentially a speedbump) or embedded below surface.
- Two vehicle sensors are needed to be connected to the system to conduct an inspection.
- The two sensors should be set in place to accommodate the largest vehicle expected to be tested.
- The test can then be conducted as is currently done with the Wired Vehicle Sensor and the Wireless Vehicle Sensor versions.
- The CVS requires the vehicle to be turned off and all authorized persons to disembark the vehicle, as with other MicroSearch sensors.



MicroSearch detects unauthorized individuals hiding in vehicles and containers.

MicroSearch offers fast processing for maximum efficiency.

### Benefits:

- The CVS is reverse-compatible with all current MicroSearch System Components (Laptop, Software, Control Box). Current customers have no additional tools or accessories to purchase.
- Does not require direct exposure to the vehicle being inspected, unlike others on the market.
- A passive system that does not require the intrusive attachment of sensors to a vehicle.
- The CVS location/orientation can be easily changed to other viewing angles (below, on top, from side of vehicle, etc.) customized to each customer operational scenario.

### How Does a Touch-Free, Contactless System Benefit Users?

- No longer requires direct exposure to the vehicle being inspected.
- Enhances staff safety and security.
- Provides discretion to the test/inspection – party being inspected need not be aware of test/inspection.
- Requires less staff to conduct a test/inspection.

### Technical Data:

- Low power motion detector working in the 24GHz – ISM – Band
- Dimensions (including speed reduction/protection device): 38in x 20in x 3in (96.5cm x 51cm x 8cm)
- Speed Reduction/Protection Device max. weight capacity: 26,000 per axle
- Cable Length: 50ft (15m)
- Power Requirement: 100 – 240VAC, 50/60Hz
- Operating Temperature: -20°C – 60°C
- Storage Temperature: -20°C – 60°C
- Electrical components protected by high temperature epoxy and potting compound.
- Provides electrical insulation and protects components from environmental concerns.

**MicroSearch**<sup>®</sup>  
For Security that Doesn't Miss a Beat

5400 Port Royal Rd.  
Springfield, VA 22151  
U.S.A.

+1-703-321-4420  
800-367-2682, X4420  
microsearch@ensco.com  
www.ensco.com/microsearch