

FULLY AUTOMATED AND REAL-TIME HIGH-THROUGHPUT, LOW CONTACT SECURITY SCREENING



## Human Security Radar Overview

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Human Security Radar® (HSR) is a fully automatic real-time threat detection and mass people screening solution that introduces and extends secure perimeters without disrupting the people flow:

- Uniquely high throughput of up to 5,000 people per hour
- Automatic threat detection, driven by Artificial Intelligence
- Screens without the need to divest, remove coats or remove bags
- Detection of IEDs, including low metallic devices
- Detection of automatic firearms and bladed weapons
- Detection of handguns

HSR uses technology based on safe centimeter range radio-frequency waves with extremely low power levels. The system uses stereo video cameras and provides video-tracking capability of detected targets.

HSR detects threats automatically and in real-time. It requires no specially trained operator and, therefore, has very low operating costs. Security officers, the security control room as well as first responders can monitor multiple devices simultaneously, automatically receiving alarm signals, photos and coordinates of any people who alarmed and location of the potential threat.

## Features

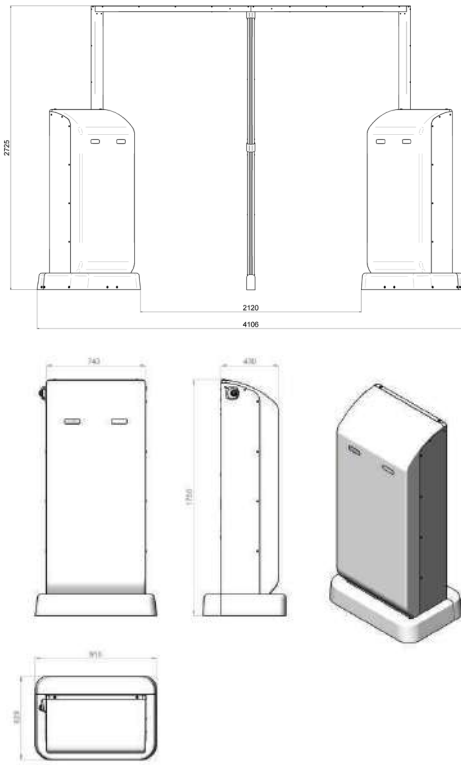
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- real-time operation
- automatic threat recognition
- multiple people screened simultaneously
- operator independent
- high throughput
- standoff detection
- no privacy issues
- supports covert or overt deployments
- easily integrates with existing security systems
- high probability of detection and low false alarm rate

## Applications

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- mass transit hubs, high-speed trains
- public venues
- airport arrival / departure halls
- museums and exhibitions
- conferences, sports events
- critical infrastructure
- government buildings
- shopping malls, office buildings
- cruise ships
- military / police checkpoints



## Operating conditions and environment

Temperature:	10°C - 30°C
Humidity:	5-90%, non-condensing
Placement:	not to be exposed to rain and snow
Surrounding:	heavy sources of vibration and reflection should be avoided

## Installation details

Width of free passage, m:	2 x 1.1
Footprint (with inspection zone), m <sup>2</sup> :	width 4.5 x length 5 (configuration A)
Upper boundary, m	~ 3
Dimensions of a pillar, cm <sup>3</sup>	75x176x43
Weight (2 pillars), kg	~ 300
Power requirements	1.3kW / 220V / 50Hz

## Example of alarm output

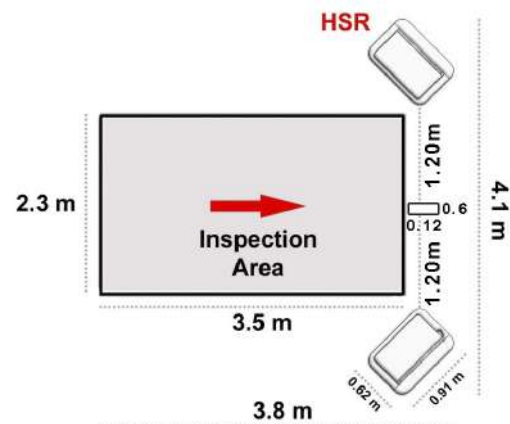


## Specifications

### General Specifications

Throughput:	up to 5000 p / h real-time, free flow system
Inspection area, m <sup>2</sup> :	2.2 x 3.0 (configuration A)
Speed of analysis:	real-time
Alarm information:	alarm trigger, tracking information, photo of the person

## Example of HSR installation for unidirectional people flow



Schematic view of HSR inspection zone. Arrow shows direction of people flow. Alarm signals are sent to hand held devices used by responders as well as security manager's and control room screens.

## Regulatory compliance

Health and Safety:	meets IEEE C95.1-2005 (EU standard for safety levels to Human Exposure of Radio Frequency Electromagnetic Field, 3kHz to 300GHz)
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