OPTRACON™ M30 SENSOR

CONCEALED THREAT DETECTION AT A DISTANCE

Optracon™ M30 sensors combine state-of-the-art Radar with Video Analytics, Artificial Intelligence and Machine Learning to produce a world first disrupting technology.

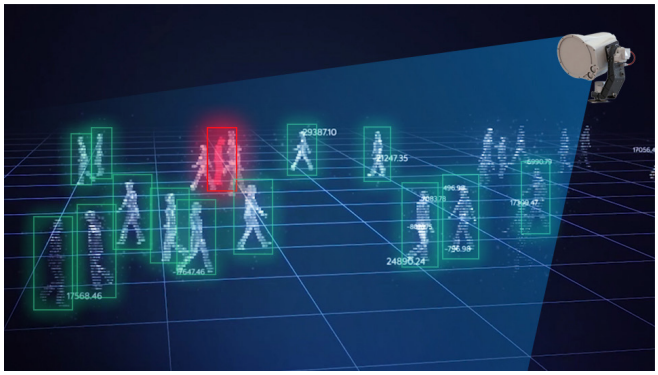
A system that autonomously screens people as they walk through public access areas for mass casualty threats. This screening process is automatic, real time and completely safe. It can detect a stand-off threat when concealed beneath clothing and can operate at distances of up to 30 meters from the sensor.

The system automatically tracks people within the threat detection area, quickly screens them, and then monitors anyone who generates an alert. As new people arrive the system will screen them too, whilst keeping track of those who have already been screened.

- Detects concealed suicide bomb vests and assault rifles at a distance of 30m
- Operates real time in unstructured environments
- Screen up to 60 people a minute
- Integrated video camera for clear target identification
- Automated screening able to manage multiple concurrent threats
- Multiple units can be networked into single solution
- Remote pan & tilt control for active user targeting
- Simple to deploy
- Uses standard video industry bracketry
- Perfectly suited for rapid deployment requirements

Optracon™ OM30 sensors combined with Optracon™ management control software, provides simple, effective and accurate security screening of remote threats, suitable for multiple internal or external applications, including:

- Transport hubs, including Airports, Rail, Underground and Ports
- Critical infrastructure – including Government and Corporate Facilities
- Schools, Universities and other places of higher education
- Stadia and Arenas– including VIP events, sports, concerts and varied ‘pop-up’ events
- Hotels
- Military and Law Enforcement Facilities
- Religious sites and Places of Worship.



GET IN TOUCH:

Radio Physics Solutions Ltd. Ely, Cambridgeshire, UK | info@rpssys.com | www.rpssys.com

OPTRACON™ M30 SENSOR

CONCEALED THREAT DETECTION AT A DISTANCE

OM30 – Gen 2.3 Sensor | Detector specifications

Dimensions	360 x 490 x 520 mm including P/T gimbal and mount
Weight	6kg Detector head. 12 kg including P/T gimbal and mount
Interface	Wired Ethernet CAT6 (Gbps)
Power	100 to 260V AC 70W
Operational range	6m to 30m
Radar scanner movement	+8 to -8 degrees transmitter scanning
Pan movement	250 degrees horizontal
Tilt movement	52 degrees vertical
Antenna Arrangement	1 Transmit and 2 receive on cross and co polarisations
Frequency	71-86GHz
Transmit beam width	Typical 300mm at 30m
Detection	When combined with Optracon™ management control software, the Optracon™ solution detects personnel borne concealed mass casualty threats including bomb vests and assault rifles.
Detection time	< 1 second
Typical deployment	2.5m to 3.5m mounting height above ground Indoor or outdoor line-of-sight to target to be screened required
Fixing	4" PCD
Temperature	-10˚C to +50˚C (MIL-STD-810G)
Ingress protection	IP65 (EN 60529)
EMC/EMI	EN 301 489-1, ETSI EN 301 489-3
Safety	IEEE Std C95.1™-2005 IEC EN 62368-1
Overview camera	
Sensor	CMOS 1/2.8"
Resolution	Full HD 2.12MPX 1936x1096
Frame rate	53FPS

Assault Rifles

PBIED

Up to 60 People Per Minute

Up to 30 Meters

Automatic Screening

Free Space Detection

GET IN TOUCH:

Radio Physics Solutions Ltd. Ely, Cambridgeshire, UK | info@rpssys.com | www.rpssys.com