



SECURITY THAT
WORKS IN A
CHANGING WORLD

















MORE PEOPLE + MORE TIME + MORE \$\$



ESTIMATED ECONOMIC IMPACT MASS CASUALTIES

MILIONS OF SOFT TARGETS





FAMILIAR CONCERNS NEW TARGETS

Current Threats Today, terrorists are zeroing in on nightclubs, shopping centers, cafes, and sporting venues. TARGETS THREATS THREATS



MODULAR MILLIMETER WAVE ARCHITECTURE

- SOLID STATE
- HIGH SPEED
- MODULAR
- FULLY AUTOMATED



- MODULAR "TILE" ARCHITECTURE FOR UNPARALLELED FLEXIBILITY.
- CONFIGURATION DEPENDENT ON THREAT SET AND CON-OPS
- COTS MULTI-SENSOR INTEGRATION



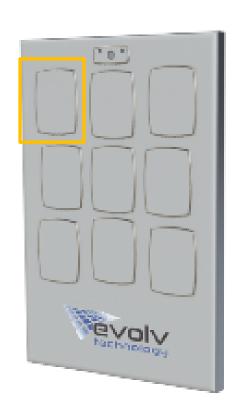
ACCESS & ENTRANCES

- Mass Casualty Prevention
- Overt or Discreet
- Local or Remotely Monitored



FIELD ACCESS POINTS

- Rapidly Deployable
- Onsite or Remotely Monitored
- Flexible Based on ConOps



PASS-BY AREAS

- Low Profile, Potentially Covert
- Remotely Monitored



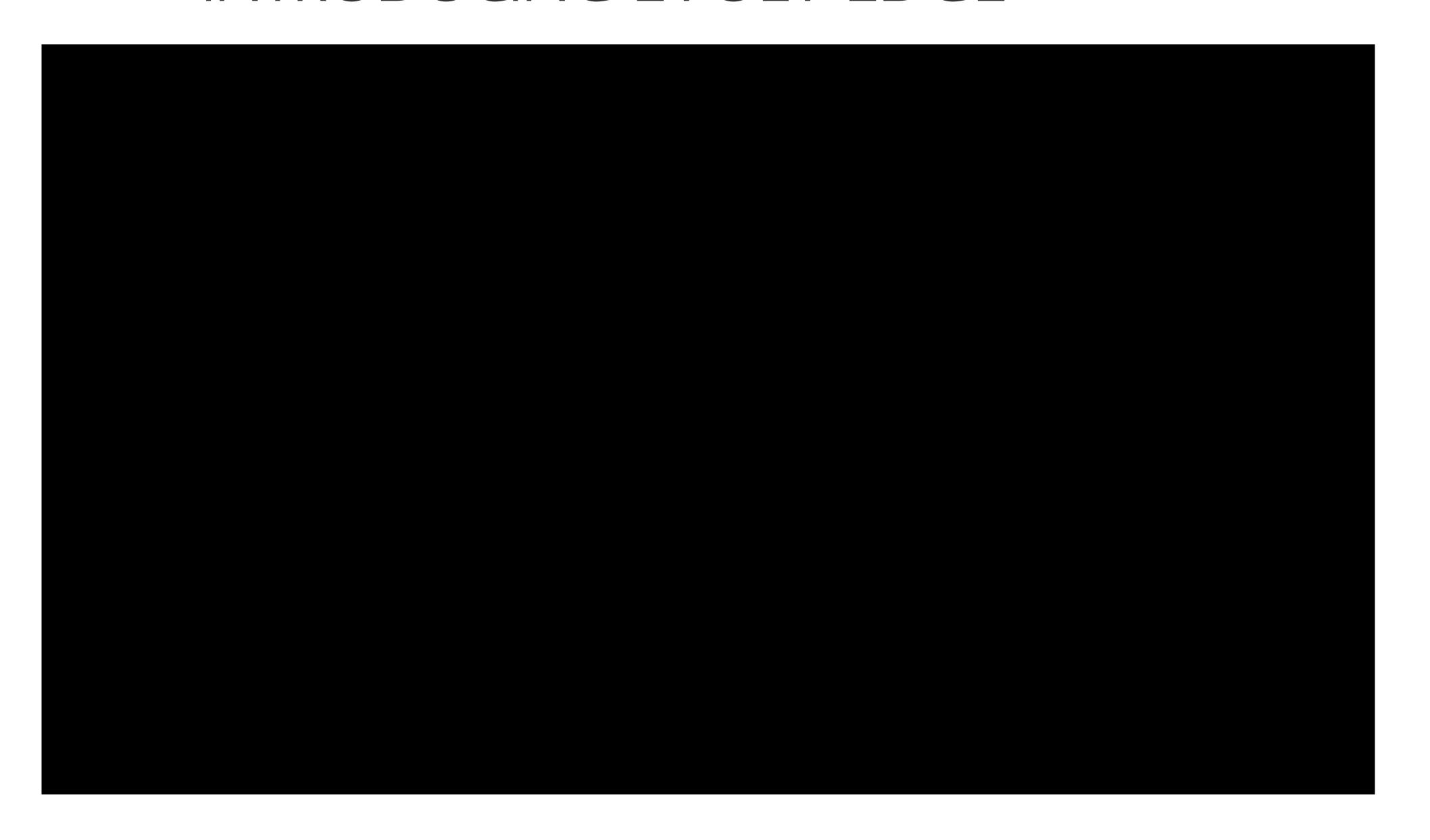
SECURITY CHECKPOINTS

- Fit into Existing Checkpoints
- ConOps aligned with Current Processes

EVOLV EDGE

Mass Casualty Threats
Fully Automated
High Throughput
Low False Alarm Rate
Unparalleled Flexibility



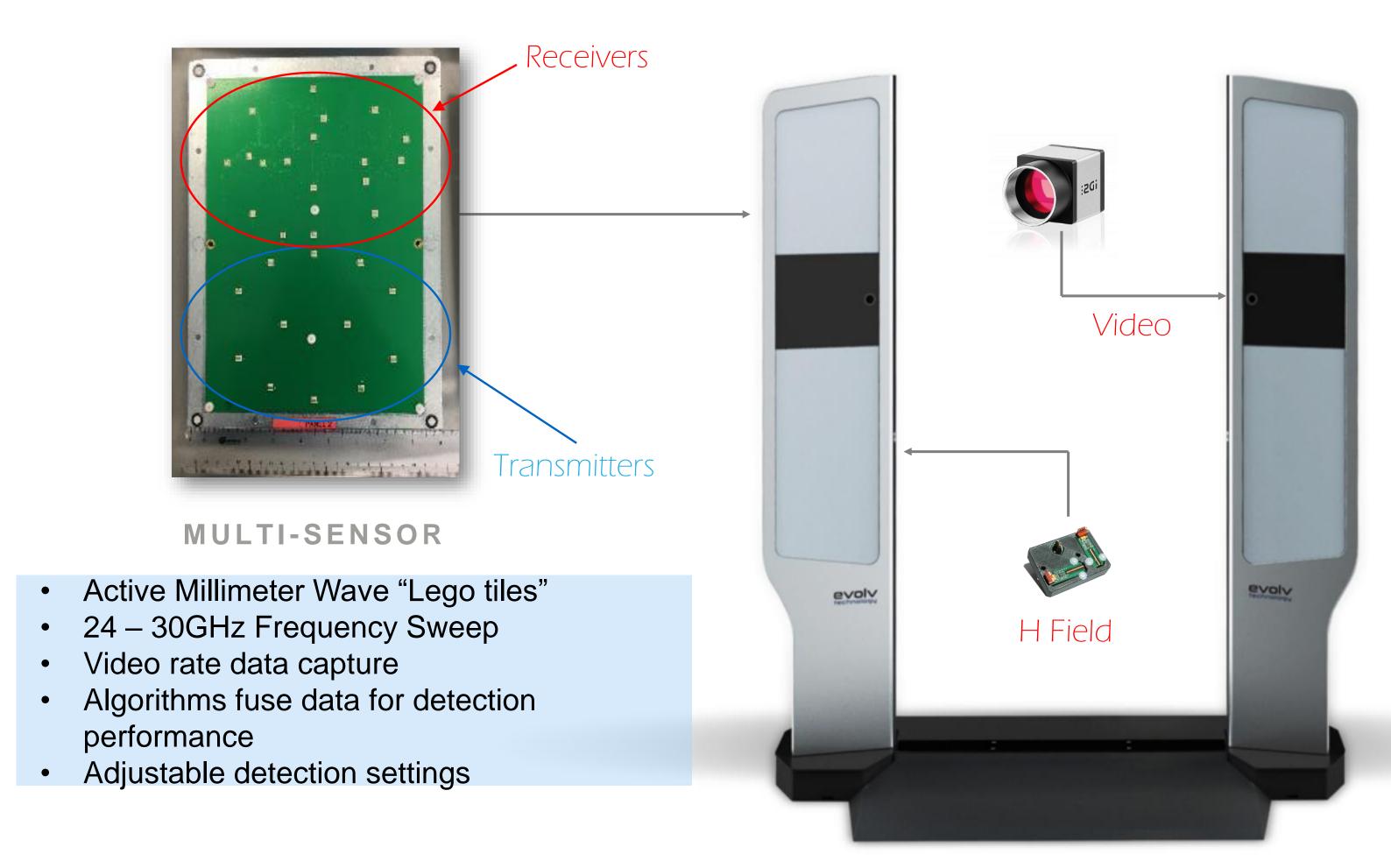


Mass casualty threat detection
Fully automated
Up to 800pph
Low false alarm rate
No divestment required

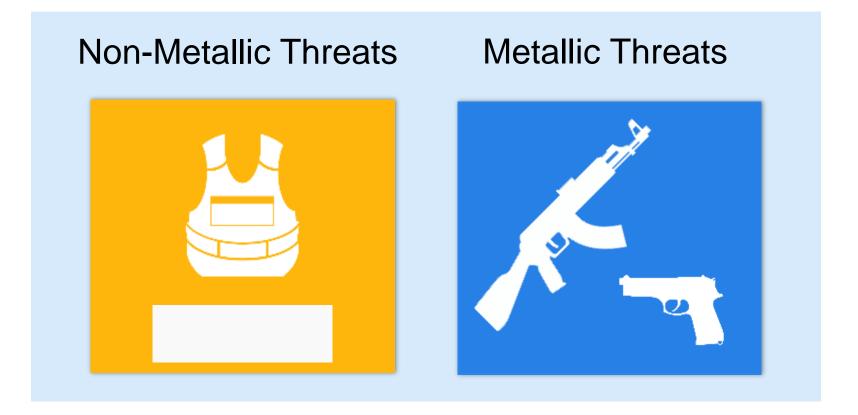


The next generation in security technology, Evolv Edge $^{\text{TM}}$ provides comprehensive mass casualty screening with high throughput and unparalleled flexibility.

MILLIMETER WAVE



FIREARM AND EXPLOSIVES DETECTION



CONCEPT OF OPERATIONS

- Walk through at normal speed (800pph)
- No divestment of personal items
- Red light / Green light detection
- Very low false alarm rate
- Portable, easy set-up

Open Architecture

USB-3 Hardware Interface

API's Available to Facilitate Software Integration



EXPLOSIVE SIGNATURE DATA

<u>Lossless</u> <u>Dielectrics</u>









Absorbing Dielectrics





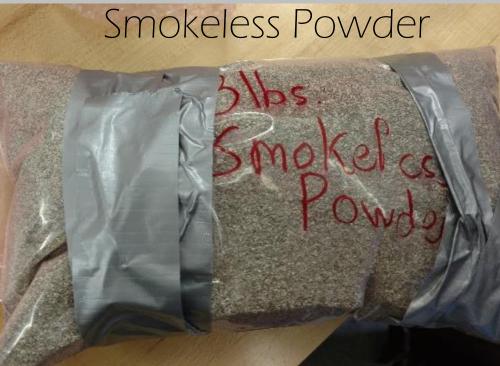




Highly
Absorbing
Dielectrics











PHENOMENOLOGY-BASED ATD

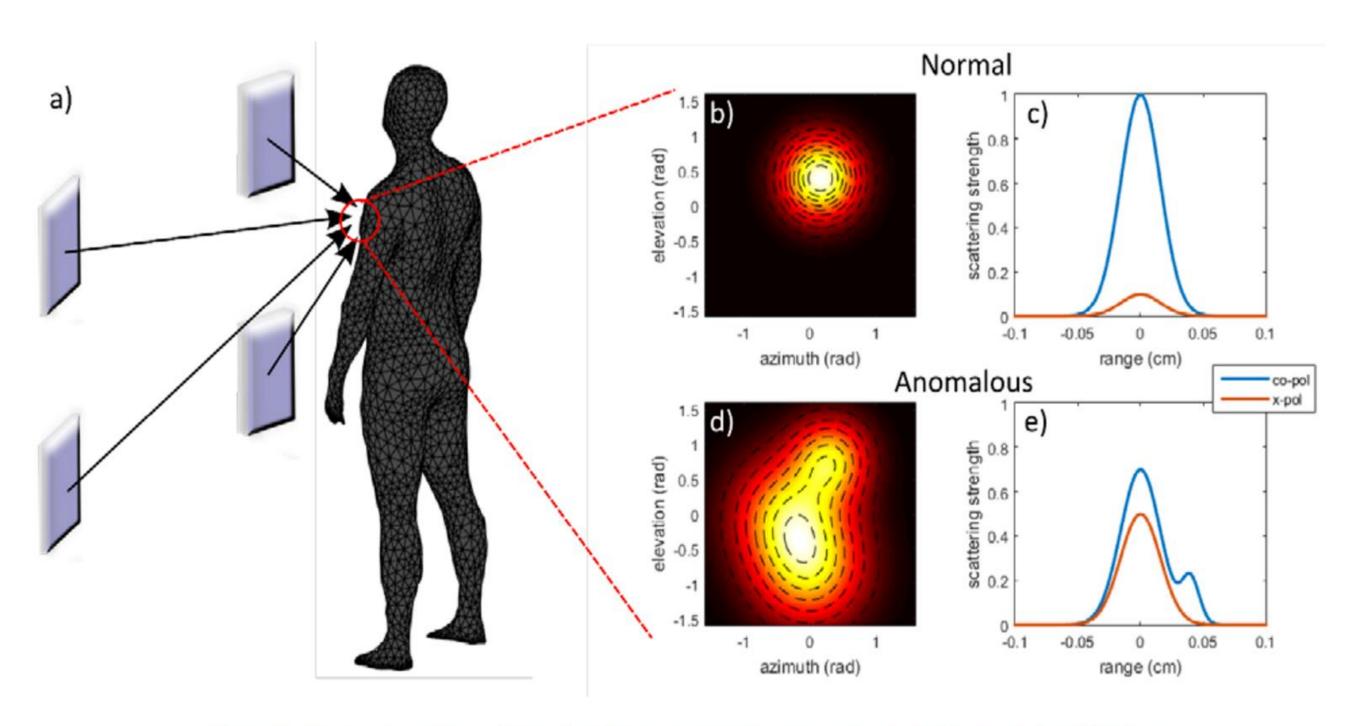


Figure 3: Generation of angular and pulse responses for anomaly detection and classification

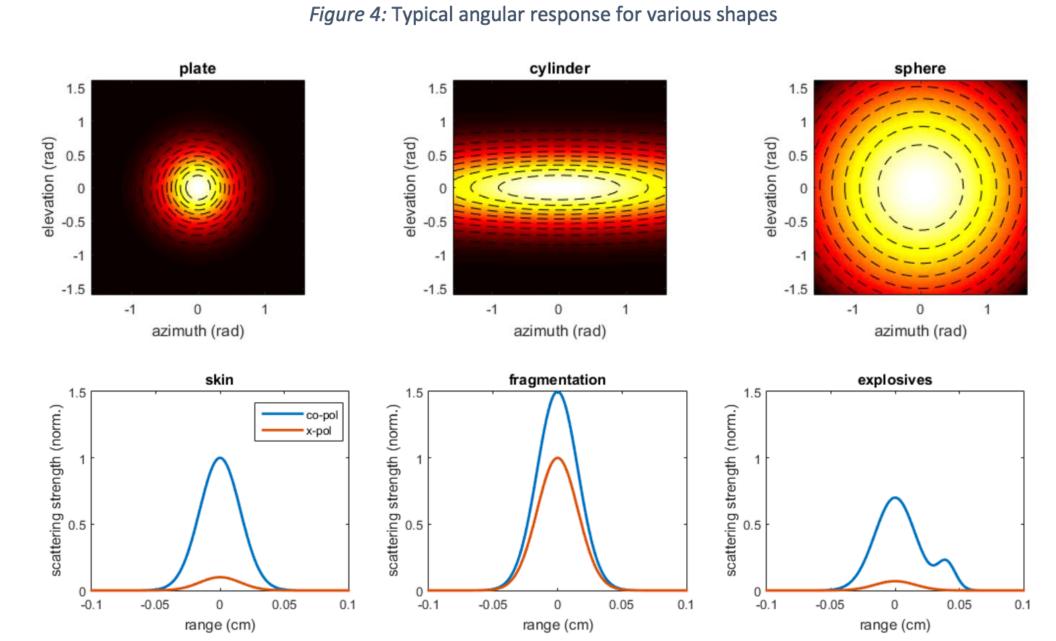
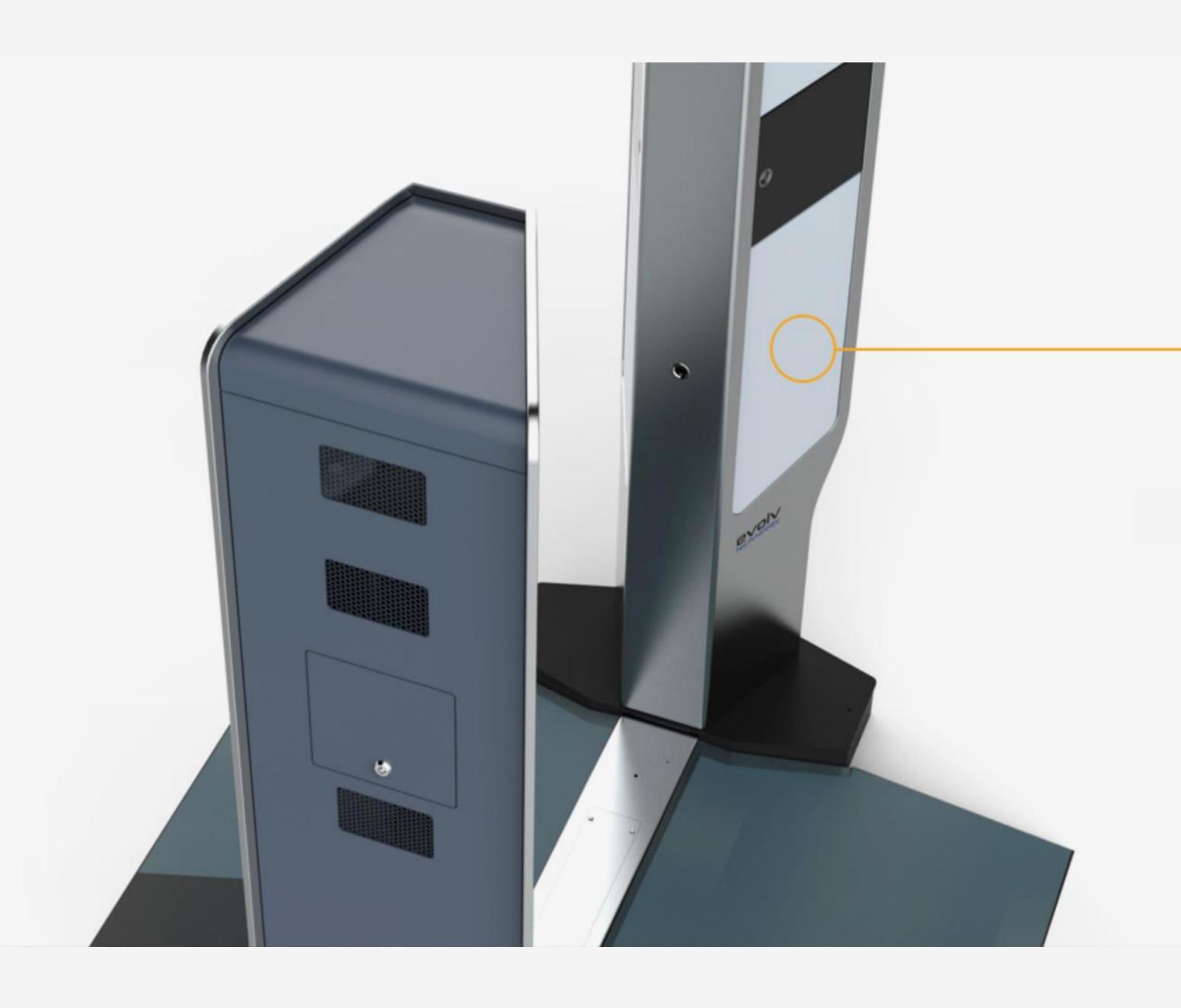


Figure 5: Typical pulse response for various materials





A color-coded readout on the intuitive user interface indicates the type of threat detected.

DETECT TODAY'S THREATS

Spot firearms and non-metallic explosives with near-zero false positives. Millimeter wave and magnetometer sensors can detect concealed long guns, suicide vests, and IEDs.

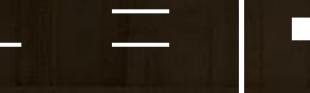


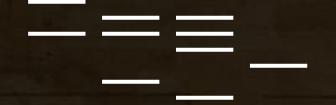


Multi-material detection
Image acquisition
Monitoring
Always on/real-time



ARTIFICIAL INTELLIGENCE





Rapid info processing
Pattern matching
Object recognition
Objective analysis
Always on/real-time



HUMAN IQ

Disambiguation
Behavioral insight
Actionable answers
Judgment calls



OPERATIONS

Con Ops Response/Amelioration

ble answers Escalation

REAL-TIME, MODERN THREAT DETECTION & PREVENTION



FACIAL RECOGNITION

INTELLIGENT RBS

Integrated watch list

Using proven facial recognition technology in combination with human judgement



EDGE

Manchester Airport 11-2-16











FIREARM AND EXPLOSIVES DETECTION

HIGH-THROUGHPUT FULLY AUTOMATED MASS CASUALTY THREAT DETECTION





WELCOME TO THE FUTURE OF PHYSICAL SECURITY



EXISTING CHECKPOINTS

Planes are the target

Centralized security

Complete control of traffic flow

All individuals treated the same

Siloed security operations

Small, artfully concealed threats



NEW WORLD PARADIGM

Anything can be a target

Distributed, randomized security protocols required

Can't control the traffic flow

Many bad guys are known to authorities

Connected security operations

Small blades don't matter, firearms and suicide vests do

