



MSD

HIGHLY PORTABLE CELL PHONE, FERROUS WEAPON AND CONTRABAND DETECTOR

- **Detection of all cell phones and other ferrous contraband** concealed on the person or in body cavities (including keyfob cell phones, smart phones, radio transceivers, etc.)
- **Constant Sensitivity across the detection area** in pass-through operations
- **Multi-Zone targeting indication** identifies location of contraband on the body
- Covert operation through use of **BT wireless headset**
- Fully weather proof for outdoor use (**IP65 certified**)
- **26 hours continuous operation**
- **Unmatched detection** in all environments without adjustment
- **Extremely durable design**
- No assembly required: **set-up in less than 10 seconds**

**TARGET
PINPOINTING
INDICATION**

**ONE-PIECE AND
LIGHTWEIGHT
DESIGN**

(TOTAL WEIGHT
ONLY 9,5 KG)

**FULL-HEIGHT,
360° DETECTION**

(HORIZONTAL
AND VERTICAL)

**READY FOR
IMMEDIATE USE**



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Threat Detection through Electromagnetics

The illegal use of cell phones is a growing and dangerous problem in correctional institutions worldwide. These devices are a significant threat to prison security and circumvent the monitoring processes in prisons, while allowing inmates to commit new crimes both inside and outside the facility.

The MSD was specifically designed to detect all cell phones and ferrous contraband concealed on the person or in body cavities (including key fob cell phones, smart phones, radio transceivers, etc.) quickly and easily. The one-piece design allows the MSD to be easily transported and operational in 10 seconds.

BENEFITS

- **DETECTION** of magnets and ferromagnetic metals
- **FULL-HEIGHT, 360° DETECTION** (horizontal & vertical)
- **5 INDIVIDUAL ZONES** for pinpointing locations of contraband on the body
- **COVERT OPERATION** through use of BT wireless headset
- **FULLY WEATHER PROOF** for outdoor use
- **24 HOURS TYPICAL / 26 HOURS MAX.** of continuous battery operation with 4.5 hours charge
- **ONE-PIECE** and **LIGHTWEIGHT DESIGN** (total weight only 9,5 kg with batteries included) easily transportable by one person
- **UNMATCHED DETECTION** in all environments without adjustment
- **EXTREMELY DURABLE DESIGN** using stainless steel and high impact reinforced plastics
- **ANTI-TIP SUCTION CUPS** for securing to smooth floor surfaces (included)
- **NON-EMITTING DEVICE:** safe for use for pacemakers and other medical implants
- **THROUGHPUT:** 60+ people per minute (based on uninterrupted flow, separately alarms resolution)



CARRYING CASE FOR PERSONAL TRANSPORT AND STORAGE

- Heavy-duty lightweight carry system
- Custom fit to the MSD shape
- Dedicated pocket for accessories
- Space-saving
- Included parts:
 - MSD Ferromagnetic Detector unit
 - Test sample
 - External AC/DC battery charger adapter
 - Carrying case



Carrying case stores all included parts





MSD EVO™ OPTION

Even though the MSD is typically used as a stand-alone single pole, **the MSD Pass-through configuration with EVO option defines now the possibility to operate on a transit width up to 180 cm with constant detection sensitivity from pole to pole.** Moreover, this new uniform solution allows the reliable screening of in-mates transiting through a corridor, the surveillance of large transit openings and an extremely accurate investigation of mattresses and other objects that could hide contraband.

MSD EVO™ PASS-THROUGH CONFIGURATION



Thanks to the **special EVO analyses**, the access point configuration works with uniform detection sensitivity over the entire transit area.

Accurate investigation of mattresses and other objects that could hide contraband.




BRIGHT MULTI-COLOUR STATUS INDICATOR

COVERT ALARM SIGNALING VIA BT HEADSET (OPTIONAL)



| | | | |
|---------------------------------------|---|--|---|
| GREEN LIGHT | YELLOW LIGHT | RED LIGHT | BLUE LIGHT |
| NORMAL OPERATION, NO DETECTION | WARNING PROPORTIONAL INDICATION | ALARM PROPORTIONAL INDICATION | CONNECTING BT DEVICE IN PROGRESS |
| | Target detection under the alarm threshold. | Target detection over the alarm threshold. | |

- Warning indication for signal under the alarm threshold, with fixed or proportional pitch 
- Match each single MSD unit or MSD EVO pass-through gate
- Alarm indication for signal over the alarm threshold, with fixed or proportional pitch
- Warning and alarm indications adjustable in continuous/pulsed tone and volume
- Low battery: double beep
- Self-diagnosis alert: intermittent tone

CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale.

SPECIFICATIONS

CONTROLS AND INDICATORS

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|---|
| ON/OFF push-button |
| 4-key keypad, for programming and status readout |
| Programming of operational parameters and downloading of data logger by smartphone or portable PC |

SECURITY: Password protected programming at User and Supervisor level

MULTI-COLOR STATUS AND ALARM WARNING LIGHT

| | |
|---------------------|--|
| GREEN LIGHT | • Normal operation, no alarm |
| YELLOW LIGHT | • Detection of ferromagnetic object below alarm threshold |
| RED LIGHT | • Detection of ferromagnetic object above alarm threshold: Full height alarm indication, Indication proportional to signal intensity, Alarm indication with 5 different localization zones, Full height alarm indication, followed by zonal signaling |
| BLUE LIGHT | • Blinking light: diagnostics alarm • Connecting BT wireless device in progress |

ALARM SOUNDER

- Alarm indication for target over the alarm threshold: Fixed tone, Tone proportional to signal intensity, Single pulse for pinpointing target
- Alarm tone can be selected, continuous and intermittent
- Self-diagnostics signal: intermittent tone

BT headset (ACCESSORY)

- Copies all acoustic indications, with the addition of checking BT connection

| | | |
|---------------------|-------------------------------|--|
| POWER SUPPLY | AC/DC ext. power adapter | 100 ... 240 V- , 47...63Hz, 40W |
| | Embedded rechargeable battery | 16h typical / 17h max. of continuous operation with 3 h battery charge 24h typical / 26h max. of continuous operation with 4.5 h battery charge |

| | | |
|--|---------------------|--------------------------|
| DETECTOR ENVIRONMENTAL CONDITIONS | Working temperature | -10°C to +65°C |
| | Storage temperature | -37°C to +70°C |
| | Relative humidity | 0 to 95%, non-condensing |

WEIGHT • MSD: 9,5 kg • Carrying case: 0,6 Kg • AC/DC adapter: 0,7 Kg • Installation kit: 0,3 kg • BT kit: 0,2 kg (includes battery charger)

MSD DIMENSIONS Height: 1900 mm / Width: 327 mm

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|-----------------------------|--------------------|---------------------------|
| SHIPPING INFORMATION | Dimensions (WxDxH) | 400 mm x 2000 mm x 480 mm |
| | Weight | 24 kg |

DEGREE OF PROTECTION IP65 for indoor and outdoor use

| | | |
|------------------------------|---|---------|
| AVAILABLE ACCESSORIES | EVO function activation | 88918 |
| | BT wireless audio function activation. Includes a headset with AC/DC charger | 88919 |
| | MSD-RRU Remote Relay Unit | MSD-RRU |



App CEIA FMD: the application allows monitoring of the device, adjustment of the settings and downloading of data logger.
Available on Google Play™. REQUIREMENTS: Android™ 7.0 or later.
BT interface available

Solid rubber feet 88917

MSD Demo Kit: Kit of demonstration objects, consisting of: BT wireless headset
• Hair pins • Hospital pager • Magnet • Medical scissors • Micro cell phone
• Micro smartphone • Needle • Razor blades • Transceiver • Voice recorder 89052

MSD Maintenance Kit: Set of main spare parts and necessary tools 89051

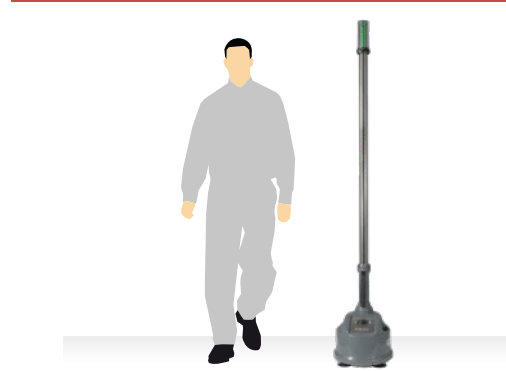
MSD Training Kit: Set of innocuous items tampered creating a concealed space for hiding small size threat objects. 89054

| | | |
|----------------------------------|---------------------------|-------|
| MSD EVO™ Connecting Cable | Length 2.7 m | 95376 |
| | Length custom, up to 25 m | 95494 |

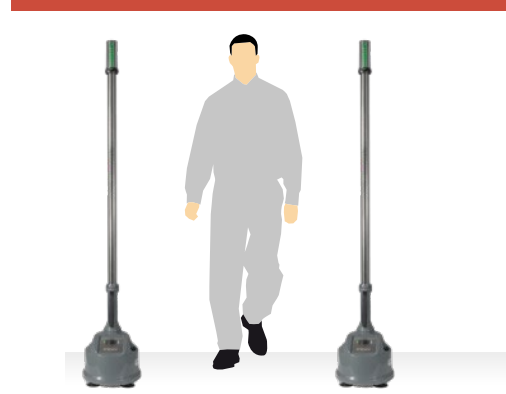
Standing mat: self-adhesive mat with indication of position and rotation 94590



PASS-BY OPERATION



PASS-THROUGH OPERATION



HORIZONTAL OPERATION



CERTIFICATION AND COMPLIANCE

Safe for use for pacemakers and other medical implants

Compliant with the applicable electromagnetic Standards on Human Exposure and pacemaker safety

Compliant with and certified to the applicable International Standards for electrical safety and EMC



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