



**TARGET  
PINPOINTING  
INDICATION**

**ONE-PIECE AND  
LIGHTWEIGHT  
DESIGN**

[TOTAL WEIGHT  
ONLY 21 LBS]

**FULL-HEIGHT,  
360° DETECTION**  
[HORIZONTAL  
AND VERTICAL]

**READY FOR  
IMMEDIATE USE**



# 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



FERROMAGNETIC DIVISION

[www.ceia-fmd.com](http://www.ceia-fmd.com)

GSA Contract Holder

**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 [included]
- 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 21 lbs 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





### MSD EVO™ OPTION

Even though the MSD is typically used as a stand-alone single pole, the **new MSD Pass-through configuration with EVO option** defines now the possibility to operate on a transit width **up to 6 ft 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-COLOR STATUS INDICATOR



#### GREEN LIGHT

NORMAL OPERATION, NO DETECTION.

#### YELLOW LIGHT

WARNING PROPORTIONAL INDICATION: TARGET DETECTION UNDER THE ALARM THRESHOLD.

#### RED LIGHT

ALARM PROPORTIONAL INDICATION: TARGET DETECTION OVER THE ALARM THRESHOLD.

#### BLUE LIGHT

CONNECTING BT DEVICE IN PROGRESS.

### COVERT ALARM SIGNALING VIA BT HEADSET [OPTIONAL]

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

## MSD SPECIFICATIONS

### CONTROLS AND INDICATORS

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	<ul style="list-style-type: none"> <li>• Password protected programming at User and Supervisor level</li> </ul>
MULTI-COLOR STATUS AND ALARM WARNING LIGHT	<ul style="list-style-type: none"> <li><b>GREEN LIGHT</b> • Normal operation, no alarm</li> <li><b>YELLOW LIGHT</b> • Detection of ferromagnetic object below alarm threshold</li> <li><b>RED LIGHT</b> • Detection of ferromagnetic object above alarm threshold:                             <ul style="list-style-type: none"> <li>- Full height alarm indication</li> <li>- Indication proportional to signal intensity</li> <li>- Alarm indication with 5 different localization zones</li> <li>- Full height alarm indication, followed by zonal signalling</li> </ul> </li> <li><b>BLUE LIGHT</b> • Connecting BT wireless device in progress</li> </ul>
ALARM SOUNDER	<ul style="list-style-type: none"> <li>• Alarm indication for target over the alarm threshold:                             <ul style="list-style-type: none"> <li>- Fixed tone</li> <li>- Tone proportional to signal intensity</li> <li>- Single pulse for pinpointing target</li> </ul> </li> <li>• Alarm tone can be selected, continuous and intermittent</li> <li>• Self-diagnostics signal: intermittent tone</li> </ul>
BT HEADSET (ACCESSORY)	<ul style="list-style-type: none"> <li>• Copies all acoustic indications, with the addition of checking BT connection</li> </ul>

### POWER SUPPLY

AC/DC external 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	14 to 149°F
Storage temperature	-35 to 158°F
Relative humidity	0 to 95%, non-condensing

### WEIGHT

- MSD: 21 lbs • Carrying case: 1.5 lbs • AC/DC adapter: 1.6 lbs • Installation kit: 0.6 lbs
- BT kit: 0.5 lbs (includes battery charger)

### MSD DIMENSIONS

Height: 75"	Width: 13"
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### SHIPPING INFORMATION

Dimensions (WxDxH)	16" x 79" x 19"
Weight	53 lbs

### DEGREE OF PROTECTION IP65 for indoor and outdoor use

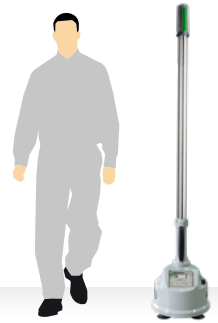
### AVAILABLE ACCESSORIES



EVO function activation		code 88918
BT wireless audio function activation. Includes a headset with AC/DC charger		code 88919
MSD-RRU Remote Relay Unit		code 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		code 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		code 89052
MSD Maintenance Kit: Set of main spare parts and necessary tools		code 89051
MSD Training Kit: Set of innocuous items tampered creating a concealed space for hiding small size threat objects.		code 89054
MSD EVO™ Connecting Cable	Length 9 ft	code 95376
	Length custom, up to 82 ft	code 95494
Standing mat: self-adhesive mat with indication of position and rotation		code 94590

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### 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



FERROMAGNETIC DIVISION

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