



**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

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

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

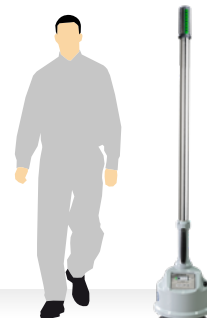
AVAILABLE
ACCESSORIES

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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