

MSD Plus

HIGHLY PORTABLE MULTI-ZONE FERROUS DETECTOR

MAIN FEATURES

- **DETECTION OF ALL CELL PHONES** and **OTHER FERROUS CONTRABAND** concealed on the person or in body cavities (including keyfob cell phones, smart phones, earphones, radio transceivers, etc.)
- **MULTI-ZONE TARGETING INDICATION** identifies location of contraband on the body
- **HIGH SENSITIVITY** and **HIGH IMMUNITY** to external interferences
- **CONSTANT SENSITIVITY ACROSS THE DETECTION AREA** in pass-through operations
- Covert operation through use of **BT WIRELESS HEADSET**
- Fully weather proof for outdoor use (**IP65 CERTIFIED**)
- **UP TO 60 HOURS CONTINUOUS OPERATION**
- **EXTREMELY DURABLE DESIGN** including **AISI 316L** stainless steel and high impact reinforced plastics
- **SET-UP IN LESS THAN 10 SECONDS**

**MULTI-ZONE
TARGETING
INDICATION**

**ONE-PIECE AND
LIGHTWEIGHT
DESIGN**

(TOTAL WEIGHT
ONLY 22 lbs)

**FULL-HEIGHT,
360° DETECTION**

(HORIZONTAL
AND VERTICAL)

**4.1" TFT LCD
TOUCH SCREEN
DISPLAY**



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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 Plus** 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 Plus to be easily transported and operational in 10 seconds.**

BENEFITS

- **DETECTION** of all cell phones and other ferrous contraband
- **FULL-HEIGHT, 360° DETECTION** (horizontal & vertical)
- **9 ZONE COMBINATIONS** for pinpointing locations of contraband on the body
- **COVERT OPERATION** through use of BT wireless headset
- **FULLY WEATHER PROOF** for outdoor use
- **UP TO 60 h MAX. OF CONTINUOUS OPERATION**
- **ONE-PIECE** and **LIGHTWEIGHT DESIGN** (total weight only 22 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)
- **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 Plus** shape
- Dedicated pocket for accessories
- Space-saving
- Included parts:
 - **MSD Plus** Ferromagnetic Detector unit
 - Test sample
 - External AC/DC battery charger adapter
 - Carrying case



MSD Plus EVO™ OPTION

Even though the **MSD Plus** is typically used as a stand-alone single pole, the **MSD Plus 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 Plus 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 COLOR STATUS INDICATOR



WHITE

POWER INDICATOR LED



WHITE + RED

POWER INDICATOR LED
&
ALARM INDICATOR LED



WHITE + BLUE

POWER INDICATOR LED
&
CONNECTING BT DEVICE
IN PROGRESS LED

COVERT ALARM SIGNALING VIA BT HEADSET (OPTIONAL)

Match each single **MSD Plus** unit or **MSD Plus EVO** pass-through gate



Alarm indication for signal over the alarm threshold, with fixed or proportional pitch

Low battery: double beep

Self-diagnosis alert: intermittent tone

SPECIFICATIONS

CONTROLS AND INDICATORS



- ON/OFF switch
- 4.1" TFT-LCD touch screen display
- Programming of operational parameters and downloading of data logger by smartphone or portable PC

SECURITY: Password protected programming at User and Supervisor level

COLOR STATUS AND ALARM WARNING LIGHT

- | | |
|------------|--|
| WHITE | • Power Indicator LED |
| RED LIGHT | • Alarm Indicator LED |
| | • Full height alarm indication |
| | • Indication proportional to signal intensity |
| | • Alarm indication with different localization zones |
| | • Blinking light: diagnostics alarm |
| BLUE LIGHT | • Connecting BT device in progress LED |



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, 50W
Embedded rechargeable battery	Up to 16,5 h max of continuous operation with 2.5 h battery charge
	Up to 60 h max of continuous operation with 9 h battery charge

DETECTOR ENVIRONMENTAL CONDITIONS

Operating temperature	-4 to 140°F
Storage temperature	-35 to 140°F
Operating temperature during battery charging	32 to 104°F
Relative humidity	0 to 95%, non-condensing

WEIGHT

- **MSD Plus:** 22 lbs • Carrying case: 1.3 lbs • AC/DC adapter: 1.3 lbs • Installation kit: 0.6 lbs
- BT kit: 1 lb (includes battery charger)

MSD DIMENSIONS

Height: 75" / Width: 13"

SHIPPING INFORMATION

Dimensions (WxDxH)	16" x 79" x 19"
Weight	54 lbs

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
BRU Wireless Relay Unit	143764



• **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™ 8.0 or later
- Available on Apple store. Requirements: iOS 15.0 or later
- BT interface available

Solid rubber feet	88917
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MSD Plus 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

MSD Plus Maintenance Kit: Set of main spare parts and necessary tools	143750
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MSD Plus Training Kit: Set of innocuous items tampered creating a concealed space for hiding small size threat objects.	89054
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MSD Plus EVO™ Connecting Cable for synchronization without using BT	Length 9 ft	95376
	Length custom, up to 82 ft	95494

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



PASS-THROUGH OPERATION



CERTIFICATION & COMPLIANCE

- **NO-EMISSION:** safe for use for pacemakers and other medical implants
- **COMPLIANT** with the applicable electromagnetic Standards on Human Exposure and PMEDs such as glucometers, pacemakers, defibrillators, insulin pumps, neurological stimulators and cochlear implants
- **COMPLIANT** with and **CERTIFIED** to the applicable International Standards for electrical safety and EMC



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