

HI-PE Multi-Zone Plus

ENHANCED WALK-THROUGH METAL DETECTOR

- **Accurate Detection** of magnetic, non-magnetic and mixed-alloy metal weapons
- **Multi-Zone Target Indication** over the entire transit area
- **Extremely High Discrimination** and **flow rate**
- **Exceptional Immunity** to electromagnetic and mechanical interferences
- **Very High Reliability** and **Performance Consistency**
- **Built-in Operational Functional Verification**
- **Compliant with and certified** to the applicable Standards for Enhanced Metal Detectors
- **Programmable** by local keyboard, **chip card** or **infrared remote controller**



• Networking capabilities

- > NETWORK MANAGEMENT OF ENHANCED METAL DETECTORS
- > REAL-TIME DEVICES MONITORING
- > TRANSIT FLOW MONITORING
- > TRANSITS AND EMD EVENTS LOGGING
- > MONITORING OF THE EMD WORKING PARAMETERS



AVAILABLE
IN OUTDOOR
VERSION (IP65)

The HI-PE Multi-Zone Plus is an Enhanced Walk-Through Metal Detector for the inspection of people in transit. The technology used provides **compliance with the strictest Security Requirements for EMDs**, still maintaining a high flow rate.

The HI-PE Multi-Zone Plus Metal Detector is **recommended for use in all high security applications** where the maximum degree of protection is required, combined with a substantial flow of people and the minimum number of alarms due to metal personal effects.

The **overall system is characterized** by sturdy, reliable electronic and mechanical construction, ease of installation, automatic reset calibration and very high immunity to external electrical and mechanical interference.



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WALK-THROUGH GATE STRUCTURE

State-of-the-art, compact and washable panels
Made entirely of advanced technical materials
Extremely robust, elegant and stable
Integrated Network Camera Capability
Protected against aging, weather and wear-and-tear

TOTAL DIMENSIONS: 835 x 660 x 2255 mm (WxDxH)

TRANSIT AREA: 720 x 2050 mm (WxH)

CENTRAL CONTROL UNIT

Ergonomic and robust design
High Visibility alphanumeric display and programming keyboard
Made of advanced plastics (IP20 protection degree) or stainless steel (AISI 304 IP65 protection degree) and antivandalic construction
Access to the front panel protected by hardware key

TOTAL DIMENSIONS: 387 x 80 x 178 mm (WxDxH)

ALARM SIGNALLING

VISIBLE SIGNALS	Multi-zone display bar for "height on person" localization High intensity display Green and red metering signals proportional to the mass of the object detected
AUDIBLE SIGNALS	High acoustic intensity alarm signal Volume and tone of alarm signal can be programmed

PROGRAMMING

LOCAL by Control Unit alphanumeric display and keyboard

REMOTE via RS-232, Bluetooth™ or Ethernet networking connection

SECURITY LEVEL	International Standard (IS) command
selectable through	Chip card

Programming and chip card access protected by (user and super-user) password

OPERATIONAL FEATURES

Very high discrimination and transit flow rate, five or more times compared with other metal detection systems

Quick reset time, programmable from 0.2 sec.

Very high detection speed (up to 15 m/sec.)

Build-in operational and technical functional verification

One-touch key reading of inbound, outbound and Security Level Data

No initial or periodical calibration requirement

INSTALLATION DATA

Automatic synchronisation between two or more metal detectors with a reciprocal distance of down to 5 cm without the use of external cables

Build-in floor sensitivity adjustment function

Build-in general noise (GN) and electromagnetic noise (EN) digital read-out

POWER SUPPLY: 90 ÷ 264 Vac, 47 ÷ 63 Hz, 80 VA Max

ENVIRONMENTAL DATA

PROTECTION DEGREE Indoor Model: IP20 - IEC529
Outdoor Model: IP65 - IEC529

OPERATING TEMPERATURE: -20°C to +70°C

STORAGE TEMPERATURE: -35°C to +70°C

RELATIVE HUMIDITY: 0 to 95% (without condensation)

ACCESSORIES / OPTIONS

FIELD UPGRADEABLE FOR DETECTION OF GAMMA RADIATION compliant with and certified to the applicable detection requirements for Gamma Portal Monitors

CHIP CARDS for automatic calibration of Security Levels and parameters setting

RCU2: the console provides complete remote control of CEIA Walk-Through Metal Detector functions

INFRARED CONTROLLER for wireless remote programming of the control unit

BLUETOOTH™ INTERFACE

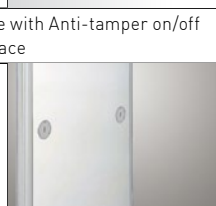
MBSU-2 Unit is a compact portable Battery backup with Charger device designed to supply CEIA Metal Detectors in outdoor applications or in situations where mains power supply is unavailable

APSIM: connection module with Anti-tamper on/off switch and Ethernet interface

PRECISE DIRECTIONAL TRANSIT COUNTER: available with dual beam transit counter

MD SCOPE: software for oscilloscope simulation and terminal operation on CEIA MDs

OUTDOOR VERSION, waterproof degree IP65



SIGNALLING

GREEN AND RED METERING SIGNALS PROPORTIONAL TO THE METAL MASS DETECTED

UNDER THE ALARM THRESHOLD

***	Small metal mass
*****	Medium metal mass

OVER THE ALARM THRESHOLD

***	Medium metal mass
*****	Large metal mass

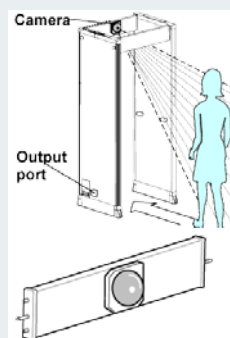
METAL TYPE INDICATION (option):

- In the case of an alarm the green section of the control unit display indicates the type of the metal mass detected

Ferr	ferrous metal
nonFe	non ferrous metal

NETWORK CAMERA

- HI-PE Multi-Zone Plus can be equipped with an embedded camera to film people in transit. The analog or network-connectable camera output is placed at the bottom of the TX panel



CERTIFICATION AND CONFORMITY

- Compliant with and certified to the applicable Standards for Enhanced Metal Detectors
- Tested and Certified as compliant with the applicable electromagnetic Standards on Human Exposure and pacemaker safety
- Approved by Ministries and Competent Governmental Authorities
- Compliant with and certified to all Airport Security Standards worldwide
- Compliant with and certified to the applicable CE Standards for electrical safety and EMC
- Harmless to magnetic media (floppy disks, tapes, etc.)
- HI-PE Multi-Zone Plus Test and Certification activities completed in 2008 by STAC (Civil Aviation Technical Center, France) conforming to the Regulation (EC) No 2320/2002



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