

02PN20/EZH



ELLIPTIC, MULTI-ZONE AND HEAVY DUTY ENHANCED METAL DETECTOR

- Superior Detection and Throughput
- Compliant with the strictest Security Standards
- 60 localization zones: • 20 vertical • 3 lateral
- Improved Detection, Discrimination, Spatial Resolution and Interference Immunity
- Aesthetic, Unobtrusive and Light Weight
- Water resistant IP65 protection degree
- Rapid Installation: no tools required for assembly



PORTABLE
CONFIGURATION
AVAILABLE



www.ceia-usa.com

Threat Detection through Electromagnetics

GSA Contract Holder



The recent introduction of stringent Federal security standards has prompted CEIA to release a series of walkthrough **Metal Detectors expressly designed for high level applications**. These metal detectors look similar to other models in CEIAs product offering, but feature a combination of advanced target detection and state of the art personal object discrimination.

Detection Features



VERY HIGH SENSITIVITY

- Capability to detect the full range of metal weapon threats even within body cavities
- Met-Identity technology for Identification of Threat Composition

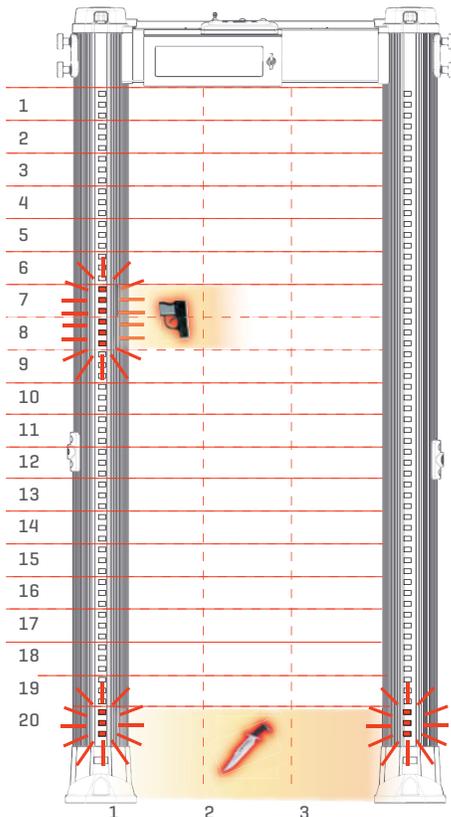


METAL KIND IDENTIFICATION

The most advanced Security Standards require detection of all ferrous and non-ferrous metal weapons and of those constructed in special non-magnetic alloys. The 02PN20/EZHD detects firearms and knives of this type, even when they are hidden within body cavities, and accurately indicate the position of the threat, its intensity and its prevalent composition. Inspection personnel thereby acquire thorough knowledge of the metal item and can act, according to procedures, with maximum effectiveness and security.



- 60 pinpointing zones with high resolution & precision:
 - 20 Vertical
 - 3 Lateral



Met-Identity technology

With Met-Identity technology, the 02PN20/EZHD allows you to know where, how much and what type of metal is being brought into the secure area.



➤ Ferrous Metal



➤ Non Ferrous Metal

60 ZONES!

Locate the exact position of the threat item.

Unique Alarm Signaling



- 4 Multi-Zone Display Bars, each programmable as entry Stop/Go and/or local alarm indication
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment

Accurate signaling is essential for best operation and flow management. The O2PN20/EZHD provides the user with fully-programmable signaling. Both entry-points can indicate with a high level of accuracy, even simultaneously, the vertical and lateral areas of transit of the threats detected, and can also be configured as 'traffic lights' to control transits through the detector.



- Flexible Acoustic Alarm Signaling System:

✓ 10 Continuous and Pulsed Tones ✓ 34 Special Sounds

- 10 Acoustic Intensity Levels

A complete acoustic alarm system allows personalization of the alarm tones and intensities, with a wide choice of continuous, pulsed and special tones at different levels of intensity. The wide volume control dynamic allows operation even in very noisy environments.



- Very High Precision Transit Counter:

✓ In-Bound Transits ✓ Out-Bound Transits ✓ Alarm Rate

✓ Automatic Compensation for repeated transits of the same person

The Metal Detector provides an automatic count of the people passing through the access point in both directions and the related nuisance alarm percentage.



4 Multi-Zone Display Bars

Light bars indicate metal position vertically and laterally and can also show pacing lights.



High Precision Transit Counter

4-beam very high precision transit counter is also available for enhanced performances [option]

Unmatched Throughput



- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow

The transit volume magnetic scanning system, invented by CEIA and applied since production of the first zonal Metal Detectors in 1986, allows state-of-the-art detection and discrimination results.

The O2PN20/EZHD has an extremely low nuisance alarm rate even at the strictest Security Levels requested today, and therefore allows high transit flow rates and the minimum need for intervention by inspection personnel.



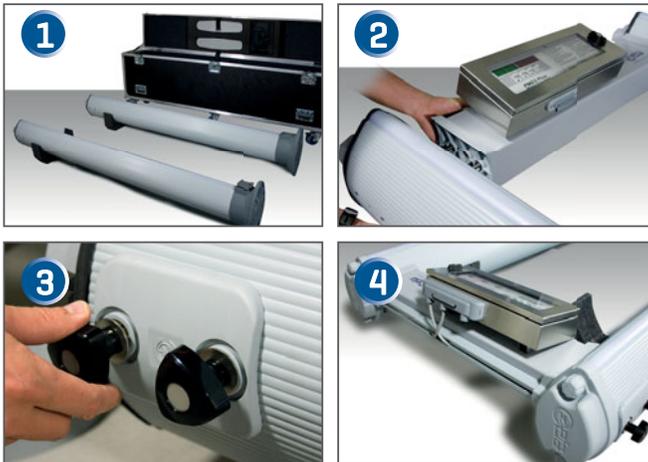
Rapid Installation



- **One touch automatic installation (OTS)**
Innovative function assisting the installation through an automatic step-by-step procedure.



- **Highly adaptable for installation in all environments**
- **Automatic Compensation function to adjust for windy environments**
- **Continuous self diagnostics assure monitored performance reliability**
- **Upper tie-down points available for stabilization in case of strong winds (up to 25 mph)**



Quick installation: no tools required.

Most Powerful and Versatile Security Features



- **Up to 50 built-in Security Programs**
 - ✓ Up to 30 International Standards
 - ✓ Up to 20 Customizable Levels

Setting the Security Levels could not be easier and more versatile than in the 02PN20/EZHD. Users can choose directly from the known International Standards or request implementation of a Standard personalized to their own requirements. Users can also create their own work program and save it in internal memory provided for the purpose.



- **Chip Card system for fast, simple and secure parameter changes (i.e. alarm volume and tone, counter reading, etc...) and security level selection**
- **Any security standard can be enhanced with selectable random alarm probability**



Chip Card System

Chip Card for automatic selection of Security Levels and parameter changes.

Extended Communication Capabilities

Extended communication capabilities including data networking for alarm and status supervision through wireless TCP/IP. The Q2PN20/EZHD can be fitted with the APSiM3 Plus Wireless Network Module.

TYPE OF OPERATION	Ethernet	Infrared	Bluetooth
Maintenance	○		■
Remote Control	○	■	■
Remote Data collection	○		

● STANDARD ○ OPTION

-  Bluetooth
-  Wi-Fi local area network
-  Web-Browser
-  Network management

The APSiM3 Plus integrates a secure web server and WiFi infrastructure using state of the art SSL and WPA2 security protocols. The APSiM3 Plus can act both as a WiFi client and WiFi access point allowing to set up a local secure wireless network without requiring additional devices. The wireless network covers a 300ft wide area on open site conditions.

Any authorized device capable of wireless connectivity and https browsing [such as tablet pc, smart phones and laptops] can access the following functionalities:

- Automatic monitoring of the auto-diagnostics, battery level and security level of the installed Q2PN20/EZHD group [fig. 1].
- Visual representation of the transits flow through the Q2PN20/EZHD. The transits data is stored in the APSiM3 Plus for up one year and can be downloaded through date selection [fig. 2].

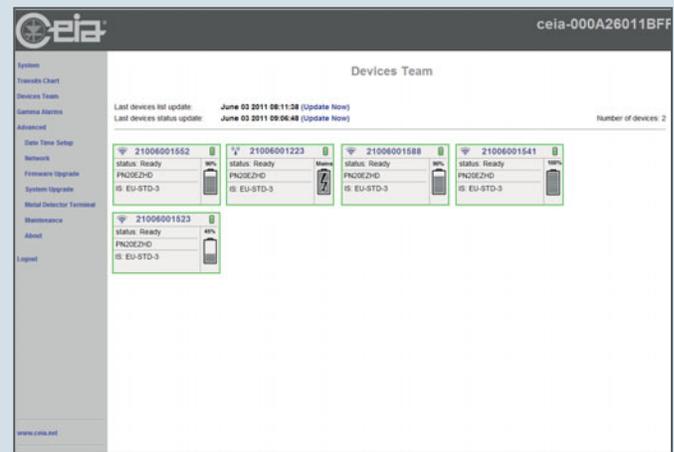


 Fig. 1: Automatic monitoring of the auto-diagnostics, battery level and security level



 Fig. 2: Visual representation of the transits flow through the Metal Detector.

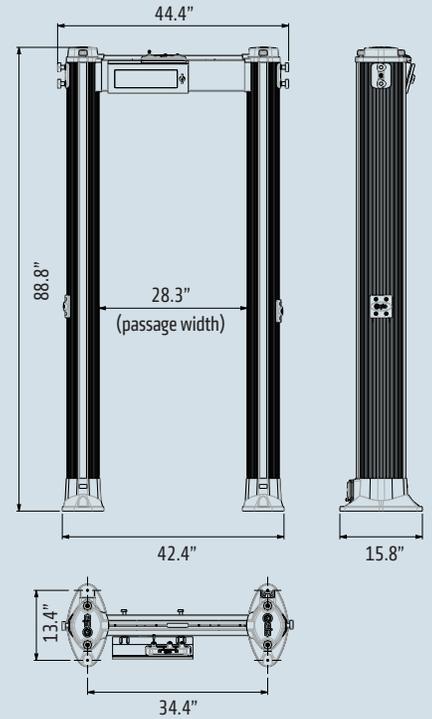
Model Configuration

Features	O2PN20/EZHD [Standard version]	O2PN20/EZHD-N [Navy reduced height version]
Reduced height for low-ceiling applications	—	■
4 display bars each programmable as zone indicators and/or pacing lights	■	■
60 localization zones (20 vertical x 3 lateral) with left, center and right indication	■	■
Chip Card Reader	■	■
Bluetooth and infrared communication	■	■
Programmable Random Alarm capability*	■	■
3-Level Password and hardware key access protection	■	■
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	■	■
One Touch Automatic Self Installation (OTS)	■	■
Automatic Operational Functional Verification (OFV)	■	■
Automatic Vibration Compensation (AVS, EVA)	■	■
Automatic Channel Search (CS)	■	■
Automatic Floor Gain Adjustment (FGA)	■	■
Automatic Technical Functional Verification (TFV)	■	■
Automatic Environmental Noise Compensation (ENA)	■	■
Powered by safe low voltage DC	■	■
Weather resistant protection	■	■
Anti-vandalism, anti-tampering protection	■	■
IP65 protection (includes weather resistant and anti-vandalism options)	■	■
Very High precision transit counter (4-beam)	□	□
Integrated web-server & logger	□	—
Transport case	□	□

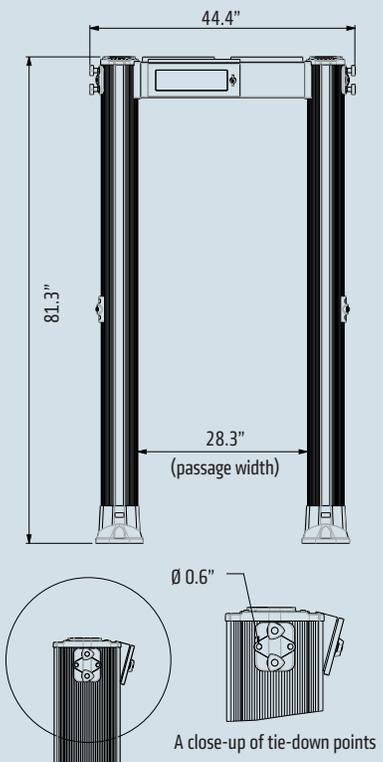
■ STANDARD □ OPTION *Transit Counter required

Dimensions

O2PN20/EZHD



O2PN20/EZHD-N



Options

➤ Integrated Web-server & Logger

APSIM3 Plus Wireless Network Module, 10/100 baseT Ethernet interface, data logger, real-time clock, integrated web-server, statistical transit data analysis.

Part # APSIM3Plus/E

➤ Very high precision transit counter

Four photocells fitted into the archway allow counting of transits, alarms and percentage of alarms. The 4-beam version increases accuracy in counting and determination of transit direction, even in intense transit conditions. Part # 56109

➤ Transport case

- Protects the metal detector during transport and storage
- Facilitates moving the metal detector
- Set to include all parts and accessories
- Minimizes storage space
- Dimensions: 92" x 16.5" x 30"
- Weight (case only): 132 lbs

Part # 57290 (Standard version)

Part # 64296 (Navy version)



Accessories

➤ Chip cards

Chip cards for simple and secure selection of security Levels and parameter setting. List of chip-cards available on request.



➤ MBSU-2-HD

Separate, compact long life power supply in stainless steel case and high protection degree (IP65), with embedded fast charger (Part # MBSU-2-HD):

- 13.6 hours typical (10 hours minimum) continuous operation
- 6.5 hours typical charging time



➤ Elliptic Gate Protective Cover

Protective Cover is designed to protect the gate in permanent outdoor installations during periods of inactivity from water, ultraviolet rays, humidity, dirt, sand, temperature spikes and other environmental hazards. The Protective Cover is column-fitted, durable and weatherproof. Yet it is also breathable, allowing moisture to evaporate from inside.

The cover is simple to install and to remove.

Part # 64395

Open the link below to see Elliptic Gate Protective Cover video:

www.ceia.net/security/EllipticGateProtectiveCover.aspx?lan=us1



➤ MD-Scope2

Powerful, PC based installation and service software. Includes oscilloscope and terminal functionality (part # MD-SCOPE2). The connection is performed via bluetooth (standard) or via cable connection (part # 3805).



➤ Stabilizing plates

Comfortable alternative to direct floor mounting.

- Standard version: part # 64355
- For uneven floor and mobile applications: part # 46938



➤ RCU2

Control unit for full remote access, including alarm signaling and programming of CEIA Walk Through Metal Detectors (part # RCU2). The connection is performed via bluetooth (standard) or via cable connection (part # 3618).



➤ Upper tie-down points

Part # 64886



➤ IRC-1

Infrared Remote Controller for wireless remote programming of the control unit. Part # 47180



➤ Test samples kit

Reference Samples for accurate verification of the Security Level. Includes guided procedures and certificate of calibration.

Part # EMD-SK-GAL / Part # EMD-SK-GDML



➤ Ceiling power adapter (Part # 63732)



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ELLIPTIC, MULTI-ZONE AND HEAVY DUTY METAL DETECTOR



Specifications

KEY FEATURES	Wide range of threat detection from guns to 1/2 cutter blade	Automatic Environmental Noise Compensation (ENA)
	Excellent discrimination of personal metal effects	Met-Identity technology identifies and signals the metal type in real time
	60 localization zones (20 vertical x 3 lateral) with left, center and right indication	High precision bidirectional counter with automatic rescreening compensation
	One touch automatic self installation (OTS)	Chip Card capability for fast, simple, and secure programming
	Automatic Operational Functional Verification (OFV)	Random alarm capability programmable from 0% to 100%
	Automatic Vibration Compensation (AVS,EVA)	Exceptional Immunity to external interferences
	Automatic Channel Search (CS)	Powered by safe low voltage DC
	Automatic Floor Gain Adjustment (FGA)	Standard Interfaces: Bluetooth, Infrared
	Automatic Technical Functional Verification (TFV)	Other available interfaces: Ethernet
	QUALITY	Continuous self diagnostic system
Proven reliability		
No periodic re-calibration and preventive maintenance required		
No scheduled maintenance		
Fully digital design		
WALK-THROUGH GATE STRUCTURE	State-of-the-art, robust, washable and compact elliptical columns	
	Protected against aging, weather and wear	
CENTRAL CONTROL UNIT	Ergonomic and robust design	
	High visibility alphanumeric display and programming keyboard	
	Made of advanced plastics or stainless steel and anti-vandalism construction (option)	
	Access to the front panel protected by hardware key and 3 levels of passwords	
ALARM SIGNALING	VISUAL SIGNALS	Multi-zone display bar for "height on person" localization 4 light bars with selectable entry/exit and pacing indication Green and red metering signals proportional to the mass of the detected target
	AUDIO SIGNALS	10 selectable continuous and pulsed tone plus 34 special tones 10 selectable sound intensities ranging from 0 to 90 dBa at 1m
	TYPE OF SIGNALING	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
PROGRAMMING	VISUAL ZONE INDICATION	60 distinct zones (20 vertical x 3 lateral) entry and exit side
	PROGRAMMING	Up to 50 built in security programs Remote via Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T (option) interface SECURITY LEVEL International Standard (IS) command Chip card Local by Control Unit alphanumeric display and keyboard Programming and chip card access protected by user and super-user passwords
OPERATIONAL FEATURES	Very high discrimination and transit flow rates five or more times greater than other metal detection systems	
	Quick reset time as short as 0.2 seconds for high throughput rate	
	Very high detection speed (up to 50 ft./sec.)	
	Built-in operational functional verification	
INSTALLATION DATA	One-touch key reading of inbound, outbound and Security Level Data	
	Automatic synchronisation between two or more metal detectors with distance of down to 6" (15 cm) without the use of external cables Automatic Installation function (OTS)	

Environmental Data

- POWER SUPPLY : 100...240V~ -10/+15%, 47...63Hz, 40 VA max
- OPERATING TEMPERATURE: -4°F to 158°F (-35°F to 158°F upon request)
- STORAGE TEMPERATURE: -35°F to 158°F
- RELATIVE HUMIDITY: 0 to 95% (without condensation)

Certification and Compliance

- Compliant with the applicable Standards for Enhanced Metal Detectors
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with all Airport Security Standards worldwide
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (floppy disks, tapes, etc.)

Comprehensive support

CEIA USA PROVIDES FULL OPERATIONAL AND TECHNICAL TRAINING SUPPORT BY CERTIFIED PERSONNEL EITHER AT CEIA USA FACILITY OR AT CUSTOMER PREMISES

- phone technical support
- in-house and on-site repair/services
- standard and custom training



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