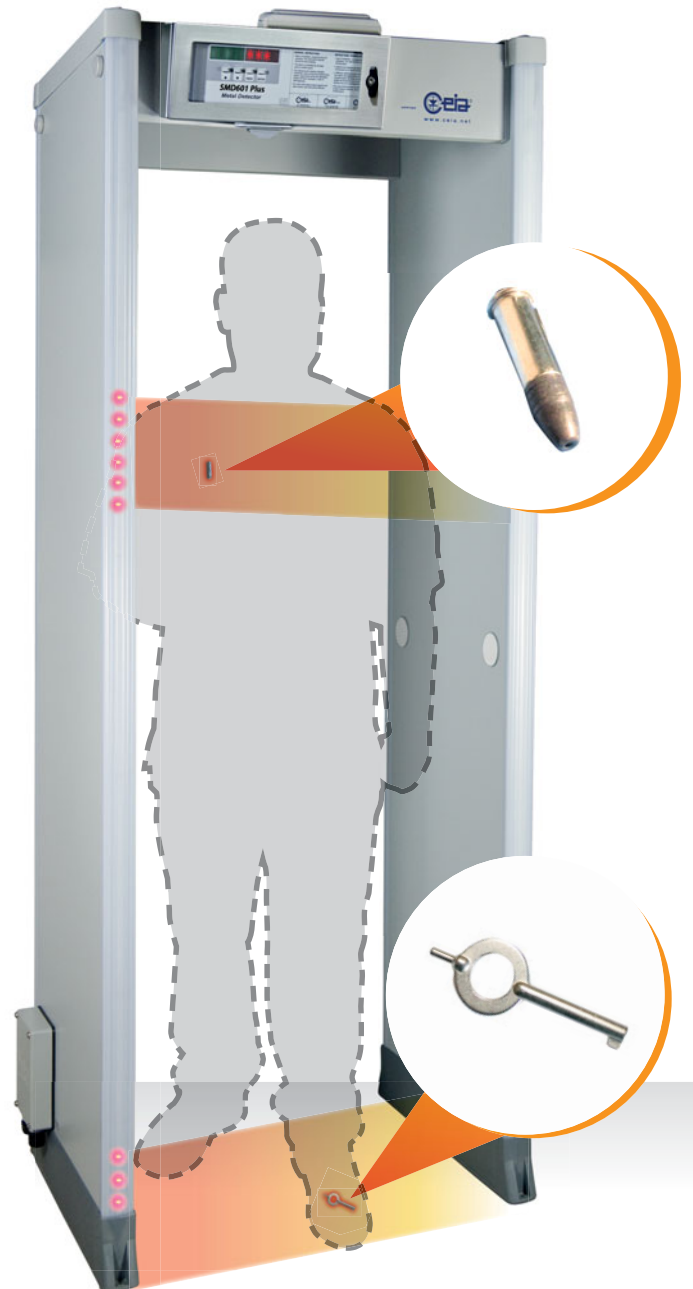# SMD601 Plus

EMD+

THE MOST SENSITIVE MULTI-ZONE METAL DETECTOR FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES

REFERENCE STANDARD IN SENSITIVITY

- Most Sensitive WTMD, fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards

- Very Accurate Pinpointing of individual and multiple metal targets

- Integrated Correctional Profiling System (optional)

- Exceptional Immunity to environmental interferences

- Unmatched Reliability

SMD601 Plus detects even the smallest metal items **anywhere on or in the body**.

Ceia s.r.l. An ISO 9001 Company — CERTIFIED

GSA Contract Holder

CERTIFIED SAFETY ACT — U.S. DEPARTMENT OF HOMELAND SECURITY — SCIENCE AND TECHNOLOGY — www.safetyact.gov

CEIA® USA

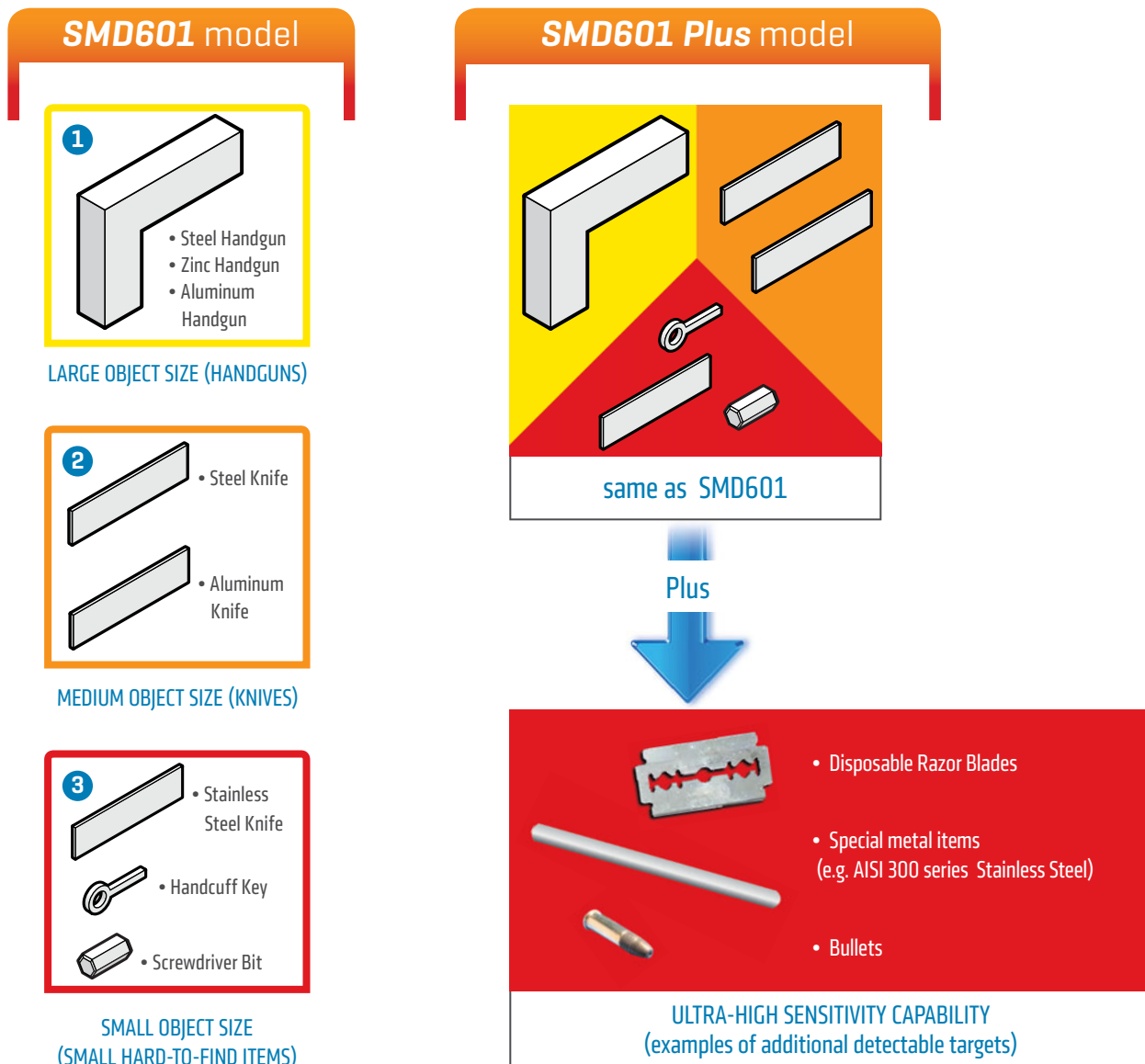### Threat Detection through Electromagnetics

www.ceia-usa.com

The *SMD601 series* Walk-Through Metal Detectors include two distinct models, *SMD601* and *SMD601 Plus*

Both of them comply with the strictest Law Enforcement Standard for WTMDs (i.e. NIJ-0601.02).
The well know SMD601 model is the best high sensitivity equipment available in the market today and it has been selected and adopted by the most prestigious Law Enforcement Institutions.

The SMD601 Plus further extends the detection sensitivity of the SMD601 to metal threats previously considered undetectable due to their minimal dimensions and metal composition similar to the ones specified in the new NIJ-0601.03 Standard.

Fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards

SMD601 model

1
- Steel Handgun
- Zinc Handgun
- Aluminum Handgun

LARGE OBJECT SIZE (HANDGUNS)

2
- Steel Knife
- Aluminum Knife

MEDIUM OBJECT SIZE (KNIVES)

3
- Stainless Steel Knife
- Handcuff Key
- Screwdriver Bit

SMALL OBJECT SIZE
(SMALL HARD-TO-FIND ITEMS)

SMD601 Plus model

same as SMD601

Plus

- Disposable Razor Blades
- Special metal items (e.g. AISI 300 series Stainless Steel)
- Bullets

ULTRA-HIGH SENSITIVITY CAPABILITY
(examples of additional detectable targets)

SMD601 Plus detects even the smallest metal items **anywhere on or in the body**

The *SMD601 Plus* is a **very high sensitive Walk-Through Metal Detector**. An absolute must when the detection of extremely small metal masses is required on the body or even if hidden in body cavities.

A full-height light bar displays the location of the detected metal masses in transit. This results in rapid identification of threats and a reduction or elimination of the need for manual searches.

HIGH RESOLUTION AND PRECISION

VERY HIGH SENSITIVITY

- Very accurate pinpointing of individual and multiple metal targets

- Quick, accurate analysis of all parts of the body of people in transit, from the shoe level to the crossbar

- Built-in programs to screen visitors and staff for weapons and contraband

Advanced Alarm Indication

2 BARS
PROGRAMMABLE DISPLAY BARS

FLEXIBLE SOUND SYSTEM

BIDIRECTIONAL COUNTER

- Entrance and Exit Multi-Zone Display Bars each programmable as entry pacing and/or localization lights

- Flexible Acoustic Alarm Signaling System:
  - ☑ 10 Continuous and Pulsed Tones   ☑ 34 Special Sounds

- 10 Acoustic Intensity Levels

- High Precision Transit Counter:
  - ☑ In-Bound Transits   ☑ Out-Bound Transits
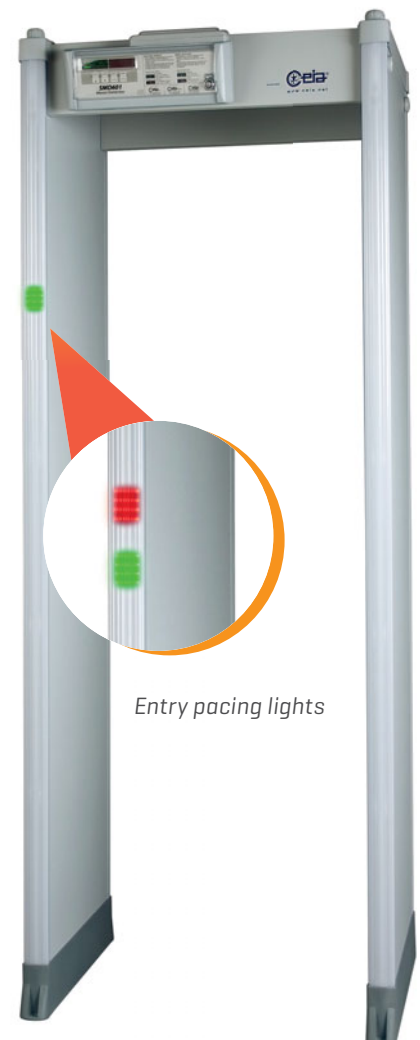 - ☑ Alarm Rate

An accurate and comprehensive alarm system allows the best use of Metal Detector. Optical indicators are fully programmable, both gate sides can indicate either separately or simultaneously vertical transit zones of detected threats and also be configured as traffic lights to regulate the access of the people being screened.

Entry pacing lights

Most Powerful and Versatile Security Features

22 is 20 Custom
SECURITY LEVELS

- Over 40 built-in Security Programs
  - ☑ Up to 22 pre-programmed Security Programs
  - ☑ Up to 20 user programmable Security Programs

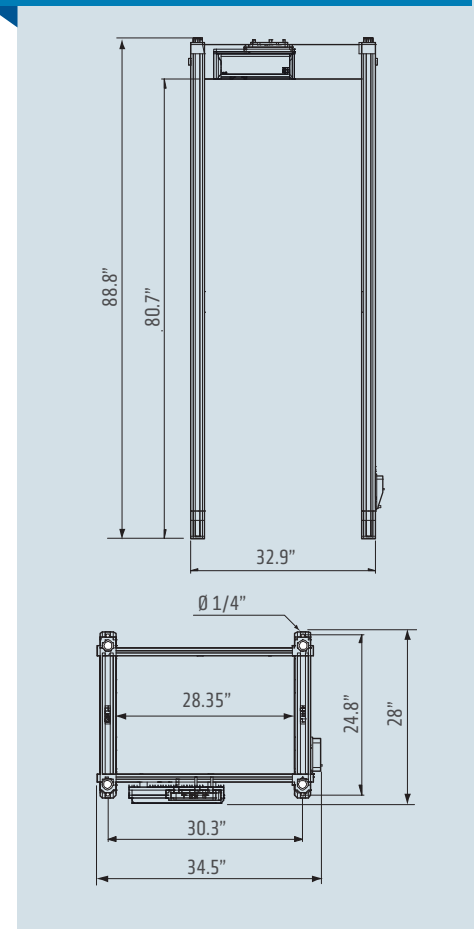- Chip Card system for fast, simple and secure parameter changes and security level selection

Model Configuration

Features	SMD601 Plus/PZ
Fully compliant with, and exceeding, the NIJ-0601.02 Standard	■
Additional Ultra-High Sensitivity (NIJ-0601.03 Standard)	■
2 display bars programmable as zone indicators and/or pacing lights	■
Dual Side 20 localization zones	■
High precision transit counter	■
Chip Card Reader	■
Bluetooth, infrared and RS-232 communication	■
Programmable Random Alarm capability	■
Password and hardware key access protection	■
One Touch Automatic Self Installation (OTS)	■
Powered by safe low voltage DC	■
Anti-tamper on/off switch	■
Correctional Profiling System	❍
Integrated video camera (lobby applications) with MDAR software	❍
Integrated web-server & logger (includes Ethernet and USB interface)	❍
Weather resistant protection	❍
Anti-vandalism, anti-tampering protection	❍
IP65 configuration: IP67 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22, IP65 control unit	❍
Embedded battery charger and under-voltage protection	❍
Long life crossbar battery back-up	❍

■ STANDARD   ❍ OPTION

Dimensions

Communication Capabilities

TYPE OF OPERATION	Ethernet	USB	Wi-Fi	Infrared	Bluetooth	RS-232
Maintenance	❍	❍	❍		■	■
Remote Control	❍		❍	■	■	■
Remote Data collection	❍		❍			

■ STANDARD   ❍ OPTION

UNDER THE ALARM THRESHOLD

Small metal mass
Medium metal mass

OVER THE ALARM THRESHOLD

Medium metal mass
Large metal mass

Green and Red Metering Signals Proportional to the Metal Mass Detected

Correctional Profiling System (option)

NIJ compliant screening of people with or without implanted metal objects

CORRECTIONAL PROFILING

1
2a
2b

OK

ALARM

1 A profiled user presents their badge to the barcode reader.

2a The user transits through the Metal Detector.

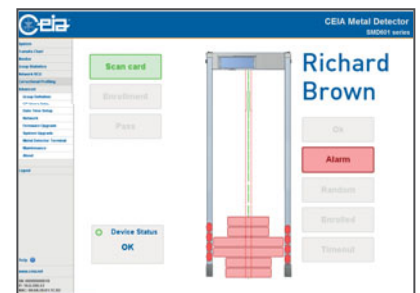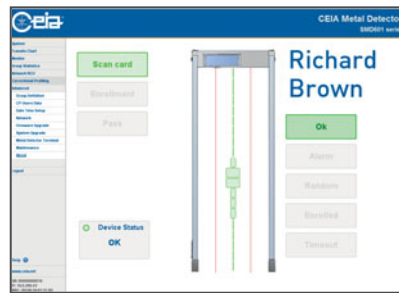The Metal Detector ignores profiled non-removable metal objects and does not alarm.

2b The user transits through the Metal Detector. The threat objects is detected and the Metal Detector shows its position.

➤ Ordering code: 1D/2DREADER/P

This option requires the installation of the integrated web-server & logger.

➤ Alarm signaling may be shown on a PC or tablet web browser

APSiM3Plus Integrated Web-server & Logger (option)
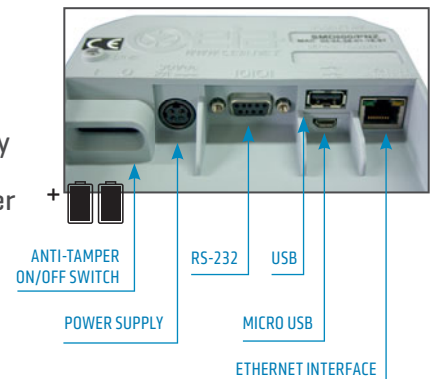
MONITOR

REPORT

- Monitor the status of Metal Detector network in real time
- Remotely control and verify the security level
- Report on number of people screened and alarm rates automatically
- No server or specialized client software required, only a web browser
- Zero configuration network for simple setup
- 2 x Ethernet 100base-TX; Wi-Fi - 802.11 b/g

➤ Ordering code: APSiM3Plus/P

ANTI-TAMPER ON/OFF SWITCH

RS-232   USB

POWER SUPPLY   MICRO USB

ETHERNET INTERFACE

CEIA USA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale

w w w . c e i a - u s a . c o m   5

Additional Options and Upgrade Kits

➤ **Integrated video camera with MDAR software**

SMD601 series can be equipped with an embedded camera to record people in transit. The kit includes the camera with mechanical support, the adapter crossbar and the connection cable. This option requires the installation of the integrated web-server & logger.

Part # 54253

MDAR, video recorder and instant alarm player

➤ **Weather Resistant Protection**

Kit for upgrading the standard version to outdoor applications according to IEC 60950-22; this kit includes shelters, crossbars, protection covers for power supply and IP67 mains power supply adapter.

Part # 55630

➤ **Anti-vandalism, Anti-tampering Protection**

This option includes stainless steel control unit, IP67 mains power supply adapter, protection covers for power supply and antenna connection compartments, equipped with screws requiring tools for removal. Part # 55629

➤ **IP65 Configuration**

This option includes IP67 power supply adapter, anti-vandalism protections, weatherproof gate structure, compliant with IEC 60950-22, IP65 control unit. Part # 55631

➤ **Long life crossbar battery back-up**

Crossbar battery back-up in stainless steel case. Provides up to 6 hours of autonomous working time.

Part # 55681

➤ **Embedded Battery Charger and Under-voltage Protection**

Anti-tamper on/off switch, RS-232 interface, battery charger with 12 hours mains disconnection diagnostic alarm.
Part # APSM2Plus/P

Accessories

➤ Chip Cards

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

➤ RCU2

Control unit for full remote access,including alarm signalling and programming of CEIA Metal Detectors.
Part # RCU2

➤ MBSU-2

Independent, compact size, long life power supply in weatherproof stainless steel case, with embedded fast charger:

• Up to 9 hours typical
  (6 hours minimum)
  continuous operation
  with SMD601 Plus
• 5 hours typical charging time.

Part # MBSU-2

8"

16.73"

5.43"

➤ MD-Scope

Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality.

Part # MD-SCOPE2

➤ IRC-1

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

➤ Metal Detector Divesting Table
FOR MANAGEMENT OF PERSONAL METAL BELONGINGS

• Standard length: 24" (Part # 18074)
• Extended length: 47" (Part # 39491)

➤ Upper Connection Module

This extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories, such as RCU-2.

Part # 46650

➤ RRU

Remote relay unit (RRU) to repeat the detection alarms of the gate through a relay contact. The RRU module can be used for integration of the Metal Detector in interlocked door systems.

Part # RRU

➤ Reference Test Samples

CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets:

• Part # NIJ-0601.02-SKN: complete test samples kit for NIJ-0601.02 detection and discrimination compliance verification.
• Part # NIJ0601.02SO/MO-SK : test samples kit for NIJ-0601.02 MO and SO classes detection capability verification.
• Part # EMD-SK-NIJ-CL2/3: test samples kit for NIJ-0601.03 detection capability verification.

➤ Waterproof Mains Power Supply

100W IP67 power supply for outdoor applications. It is provided with flanges for simple installation.
Part # 43564

Specifications

KEY FEATURES	Ultra High Sensitivity	
	Fully compliant with the NIJ-0601.02 and NIJ-0601.03 Standards	
	20 High Precision localization zones	
	High precision bidirectional counter with automatic rescreening compensation	
	Chip Card capability for fast, simple, and secure programming	
	Random alarm capability programmable from 0% to 100%	
	Exceptional Immunity to external interferences	
	Can be combined with the Network based CEIA Profiling System for further sensitivity enhancement by compensating non-removable personal metal items	
	Powered by safe low voltage DC	
	Standard Interfaces: RS-232, Bluetooth, Infrared. Other available interfaces: Wi-Fi, Ethernet, USB	
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 and washable panels	
	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 two levels of passwords	
ALARM SIGNALING	VISUAL SIGNALS	Multi-zone display bar for "height on person" localization
		2 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	VISUAL	Fixed or proportional to the mass in transit - visible from 20 ft under lighting of 4000lux
	VISUAL ZONE INDICATION	20 distinct zones
PROGRAMMING	Over 40 built-in security programs	
	Remote via RS-232, Infrared Remote Control Unit, Bluetooth™ or Ethernet 10/100 base T 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	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 and technical functional verification	
	One-touch key reading of inbound, outbound and Security Level Data	
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance as close as 12" without the use of external cables	
	Built-in floor sensitivity adjustment function	
	Automatic Installation function (OTS)	
SHIPPING DATA	Dimensions (WxDxH): 92" x 11.4" x 31.5"	
	Weight: 163 lbs	

Environmental Data

- POWER SUPPLY : 100...240V~ -10/+15%, 47...63Hz, 40 VA max

- OPERATING TEMPERATURE: -4°F to 158°F -34.60°F to 158°F upon request

- STORAGE TEMPERATURE: -34.60°F to 158 °F

- RELATIVE HUMIDITY: 0 to 95% (without condensation)

Certification and Compliance

- Complies with the applicable Standards for Law Enforcement and Correctional Facilities
- Fully compliant with the NIJ-0601.02 Standard requirements
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with applicable International Standards for electrical safety and EMC
- Harmless to magnetic media (CD, 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

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