

SMD600 Plus

ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR



HIGH SENSITIVITY

Fully compliant with
the **NIJ-0601.02**
Law Enforcement Standard



HIGH DISCRIMINATION

Compliant with and Certified
to the **strictest Standards**
for Airport security screening

*The **SMD600 Plus** is the first
Metal Detector in the market fully
compliant with the **NIJ-0601.02**
Standard, as required in **very high**
sensitivity applications, which also
allows **very high throughput** in high
security public screening checkpoints.*

CERTIFIED BY GOVERNMENTAL LABORATORIES*

* Data available upon request



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Threat Detection through Electromagnetics


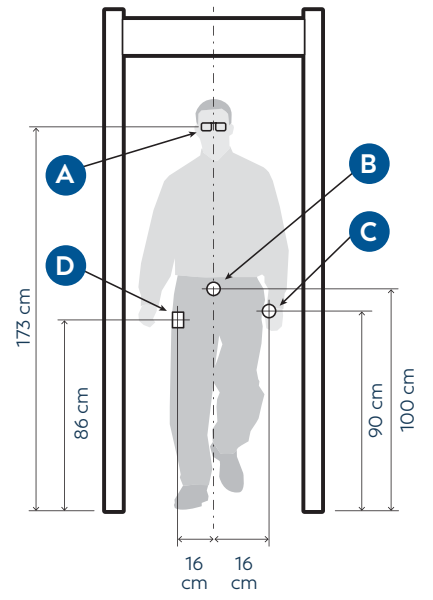
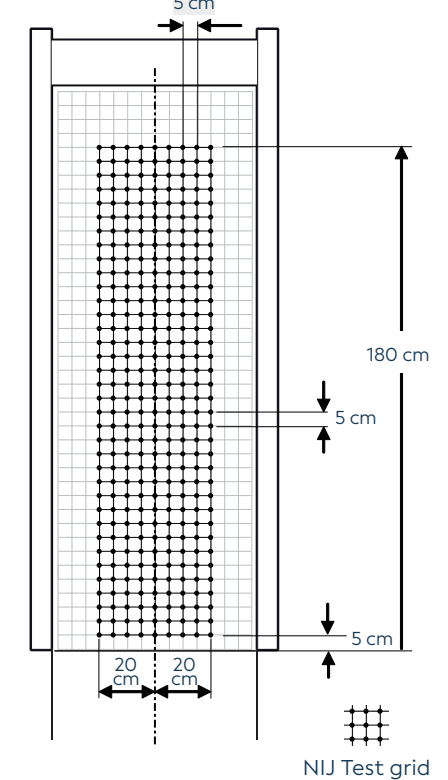
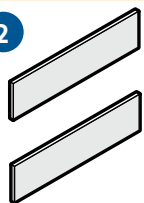
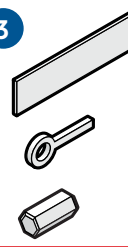
FULLY COMPLIANT WITH THE NIJ-0601.02 STANDARD

The Standard establishes the requirements of **Sensitivity, Discrimination** and **Immunity** for **Law Enforcement** and **Correctional Facilities**.



NIJ-0601.02 FULL COMPLIANCE

The SMD600 Plus Metal Detector fully complies with the requirements of the NIJ0601.02 Standard for all Security Levels, and can therefore be applied in situations from the inspection of visitors to that of inmates in top-security checkpoints, even in areas with strong electrical and mechanical interferences.

3 LEVEL OF SECURITY	INNOCUOUS ITEMS	TEST POSITIONS		
<p>1</p>  <ul style="list-style-type: none"> • STEEL HANDGUN • ZINC HANDGUN • ALUMINUM HANDGUN 				
<p>LO LEVEL: LARGE OBJECT SIZE</p>			<p>DISCRIMINATION TEST</p>	<p>DETECTION TEST OBJECT TRANSITS</p>
<p>2</p>  <ul style="list-style-type: none"> • STEEL KNIFE • ALUMINUM KNIFE 			<p>Clean tester shall carry the innocuous items specified, performing the specified number of transits, walking at normal speed (0,5...1,5 m/s). Ensure that the Metal Detector will trigger less than the indicated number of alarms:</p>	<p>Perform, for each Test Object, two passages, one forward and the other backwards, for each position and for each orientation, verifying that for every transit an alarm is triggered.</p>
<p>MO LEVEL: MEDIUM OBJECT SIZE</p>	<ul style="list-style-type: none"> LO 25 transits with A + B + C + D (max 5 alarms) MO 25 transits with A + B (max 5 alarms) SO 8 transits with no items (no alarms allowed) 			
<p>3</p>  <ul style="list-style-type: none"> • STAINLESS STEEL KNIFE • HANDCUFF KEY • SCREWDRIVER BIT 	<ul style="list-style-type: none"> A Eyeglasses B Belt buckle C Watch D Set of coins 			
<p>SO LEVEL: SMALL OBJECT SIZE</p>				

TWO-IN-ONE ENHANCED METAL DETECTOR

The SMD600 Plus is a very high sensitivity Metal Detector that also offers characteristics of high discrimination and high detection uniformity.



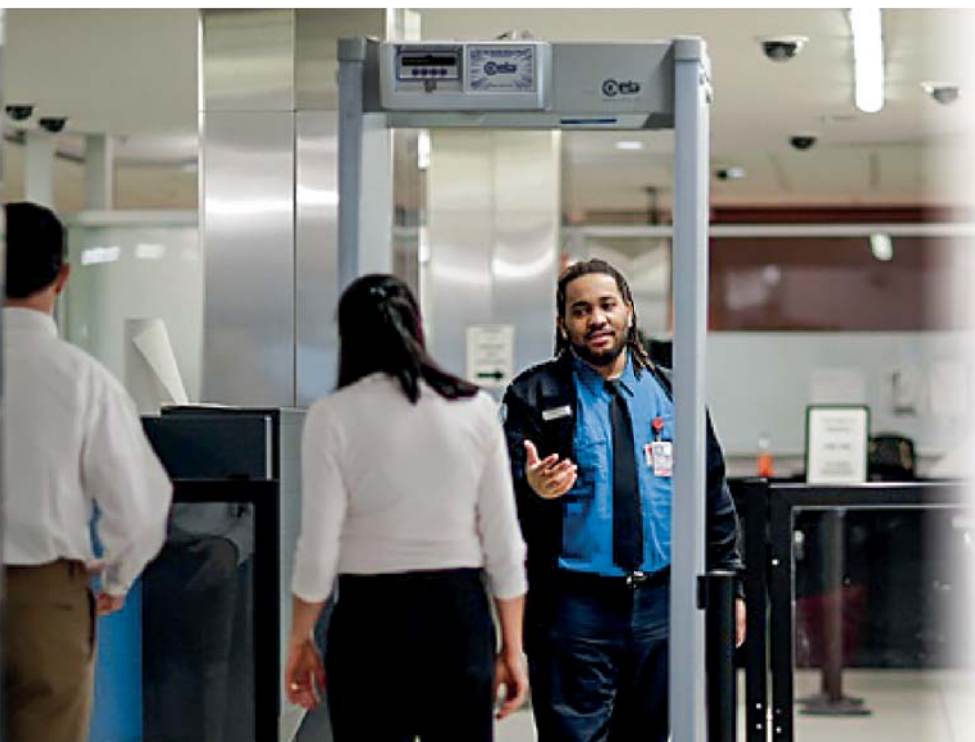
HIGH SENSITIVITY

- 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
- Met-Identity technology for Identification of Threat Composition
- Accurate pinpointing of individual and multiple metal targets



HIGH THROUGHPUT

- Cutting-edge discrimination technology allows personal effects to be ignored, creating rapid transit flow
- No need to remove items such as belts, coins, keys, jewelry, watches, wallets, etc.
- Low nuisance alarm rate even at the strictest Security Levels
- High transit flow rates and the minimum need for intervention by inspection personnel



ALARM



NO ALARM





UNIFIED CONSTRUCTION
FOR **INDOOR** AND
OUTDOOR USE



CERTIFIED IP66 CONTROL UNIT

- Waterproof / Dustproof: IP66 compliant (IEC 60529)
- Robust structure through the use of high-performance polymers for the construction of housing
- Exceptional impact resistance at low and high temperatures and resistance to corrosion from atmospheric agents
- Display made with specific polymer to improve the visibility of the LEDs by increasing the definition and clarity



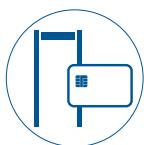
UNIQUE ALARM SIGNALLING

- Dual Side 20 x 2 localization zones
- High visibility of the control unit and the zone indication independent from the operator position and the installation environment
- Flexible Acoustic Alarm Signaling System:
 - ▶ 10 Continuous and Pulsed Tones
 - ▶ 34 Special Sounds
- 10 Alarm Volume Levels
- Very High Precision Transit Counter



MOST POWERFUL AND VERSATILE SECURITY FEATURES

- Up to 50 built-in Security Programs
 - ▶ Up to 30 International Standards
 - ▶ Up to 20 Customizable Levels
- Chip Card system for fast, simple and secure parameter changes and security level selection
- Any security standard can be enhanced with selectable random alarm probability



SPECIFIC SHOE ALARM COLOR INDICATION



CHIP CARD SYSTEM

The system allows the Head of Security to **set Security Level quickly, reliably** and without having to program the device in any way.



MI2 CELL PHONE DETECTION

SMD600 Plus can be upgraded anytime with MI2 Sensor for superior smartphone and cellphone detection.



CELL PHONES DETECTOR

- Detection of standard and micro cell phones and smartphones concealed on the person or in body cavities
- Detection of magnetic items - smartwatches, select headphones/earbuds
- Constant Sensitivity across the detection area in pass-through operations
- Multizone yellow signaling



METAL DETECTOR

- Simultaneous detection of all-metal weapons, including magnetic, non-magnetic and mixed alloy and light alloy threats
- High Throughput
- Detection of radiation shielding containers (Lead) containing radiological sources
- Multizone red signaling



SMD600 Plus-MI2 code: 121865

SMD600 Plus MODEL CONFIGURATION

STANDARD CONFIGURATION

Fully compliant with, and exceeding, the NIJ-0601.02 Standard	•
4 display bars each programmable as zone indicators and/or pacing lights	•
Dual Side 20 x 2 localization zones	•
Specific Shoe Alarm color indication	•
Antivandalic and Antitampering IP66 Control Unit	•
High Precision Transit counter (2-beam)	•
Chip Card Reader	•
BT, infrared and RS-232 communication	•
Programmable Random Alarm capability	•
3-Level Password and hardware key access protection	•
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signaling)	•
OTS: One Touch Automatic Self Installation	•
OFV: Automatic Operational Functional Verification	•
AVS, EVA: Automatic Vibration Compensation	•
CS: Automatic Channel Search	•
FGA: Automatic Floor Gain Adjustment	•
TFV: Automatic Technical Functional Verification	•
ENA: Automatic Environmental Noise Compensation	•
Powered by safe low voltage DC	•
Anti-tamper on/off switch	•

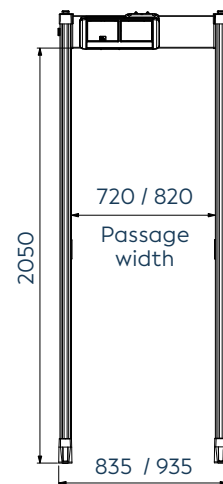
COMMUNICATION CAPABILITIES

TYPE OF OPERATION	ETHERNET	USB	INFRARED	BT	RS-232
MAINTENANCE	○	○		•	•
REMOTE CONTROL	○		•	•	•
REMOTE DATA COLLECTION	○				

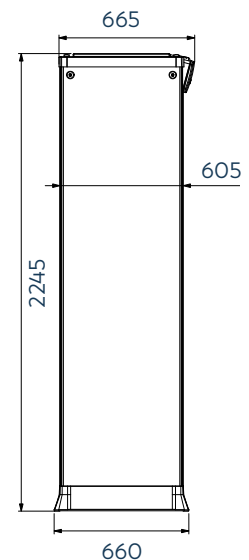
STANDARD • OPTION ○

DIMENSIONS (mm)

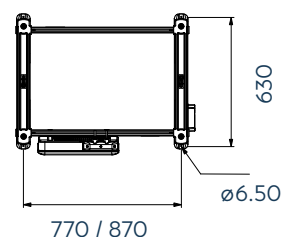
FRONT







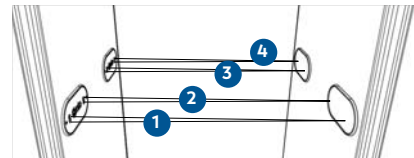


LATERAL



TOP



OPTIONS / ACCESSORIES

	DESCRIPTION		CODE
INTEGRATED CAMERA SYSTEM	Video camera with support arm and connecting cables. Installation of the APSiM3 Plus module is required.		54253
APSiM2 PLUS Integrated Web-server & Logger, Battery Back-up and Charger	Lower Connection Module with anti-tamper on/off switch, RS-232 interface, internal battery back-up and the following functions: <ul style="list-style-type: none"> • Built-in 10/100 base T Ethernet LAN interface • Web server for set-up and remote data log • Real/Time clock with battery backup • Non-volatile Memory for Metal Detector events storage 		APSiM2Plus/P
APSiM3 PLUS Wireless Network Module	Includes all features and characteristics of the APSiM2 Plus with additional: <ul style="list-style-type: none"> • Wi-Fi communication capability • Compatibility with NetID Management software (NetID software license not included) 		APSiM3Plus/P
EMBEDDED BATTERY BACK-UP AND CHARGER	Lower Connection Module with anti-tamper on/off switch, RS-232 interface and internal battery back-up. The module provides an audible 'flat battery' signal activated when the battery charge goes below the operational limit of the device (signal endurance: about 12 hours).		APSM2Plus/P
VERY HIGH PRECISION TRANSIT COUNTER (4-BEAM)	The 4-beam version further increases accuracy in counting and determination of transit direction, even in intense transit conditions: <ul style="list-style-type: none"> ▶ In-Bound Transits ▶ Out-Bound Transits ▶ Alarm Rate ▶ Automatic Compensation for repeated transits of the same person 		46112
820 mm USEFUL PASSAGE WIDTH			55635
IP65 CONFIGURATION WITH IP66 CONTROL UNIT	Outdoor sheltered permanent or non-sheltered short-term installations (single event entrance).		720 mm passage width: 138341 820 mm passage width: 138986
CROSSBAR BATTERY BACK-UP	<ol style="list-style-type: none"> 1 Crossbar battery back-up in stainless steel case. Up to 10 h of autonomous working time. 2 Protection cover 		55681 Protection cover <ul style="list-style-type: none"> • 720 mm passage width: 75122 • 820 mm passage width: 75124




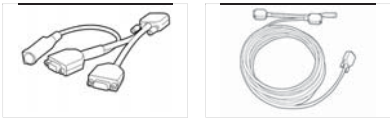

OPTIONS / ACCESSORIES

	DESCRIPTION	CODE
<p>WHEEL KIT - LONG RANGE</p>	<p>For heavy duty, longer range movement of the walk-through metal detector.</p>	 <p>70796</p>
<p>WHEEL KIT - SHORT RANGE</p>	<p>For short range movement of the walk-through metal detectors.</p>	 <p>75459</p>
<p>METAL DETECTOR DIVESTING TABLE</p>	<p>In combination with CEIA Walk-Through Metal Detectors, it is a temporary location of personal metal effects for people to be screened:</p> <ol style="list-style-type: none"> 1 Standard length: 610 mm 2 Extended length: 1200 mm 3 Outdoor version: 1300 mm 	 <p>STANDARD: 18074 EXTENDED: 39491 OUTDOOR: 67021</p>
<p>RRU</p>	<p>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. An additional relay is available for a customer-specified application.</p>	<p>RRU-2</p>
<p>REFERENCE TEST SAMPLES</p>	<p>CEIA provides certified Test Samples reproducing for shape, material and signal on WTMDs the same effect of the reference targets:</p> <ol style="list-style-type: none"> 1 NIJ-0601.02-SKN: Complete test samples kit for NIJ-0601.02 detection and discrimination compliance verification 2 NIJ-0601.02-SO/MO-SK: Test samples kit for NIJ-0601.02 MO and SO classes detection capability verification 3 EMD-SK-GDML: Reference samples for accurate verification of the disassembled guns Security Level 	 <ul style="list-style-type: none"> • NIJ-0601.02-SKN • NIJ-0601.02-SO/MO-SK • EMD-SK-GDML
<p>OFV</p>	<p>Operator Functionality Verification test-kit</p>	 <p>OFV</p>

OPTIONS / ACCESSORIES



VISUAL ALARM WITH ZONE INDICATION

	DESCRIPTION		CODE
<p>RCU2</p>	<p>Control unit for full remote access, including alarm signalling and programming of CEIA Metal Detectors. The connection is performed via serial cable connection or via BT (option).</p>		<p>RCU2</p>
<p>MD-SCOPE</p>	<p>Powerful, PC based installation and service Software. Includes oscilloscope and terminal functionality. The connection is performed via BT (standard) or via cable connection.</p>		<p>MD-SCOPE2</p>
<p>TDU Thermal Detection Unit</p>	<p>The TDU (Thermal Detection Unit) is an upgrade sensing kit for covid screening compliance:</p> <ol style="list-style-type: none"> 1 Thermal Camera Arm 2 Dual Reference Calibration Unit 		<p>TDU/P</p>
<p>SUPPLY UNIT SERIES</p>	<ol style="list-style-type: none"> 1 MBSU-2 2 TSU (Tactical supply unit) <p>Portable and compact battery back-up units and charger designed to supply DC voltage to CEIA equipment where mains is not available or as Uninterruptable Power Supply unit (UPS) in installations requiring continuous operations. The devices are extremely easy to use, and provide indication of the battery level and charging status.</p> <p>Typical continuous operation</p> <ul style="list-style-type: none"> • MBSU-2: 14h • TSU: 4 battery pack: 12h / 6 battery pack: 17h / 8 battery pack: 23h 		<p>MBSU-2</p> <p>TSU</p>
<p>IRC-1</p>	<p>Infrared Remote Controller for wireless remote programming of the control unit.</p>		<p>47180</p>
<p>CHIP CARDS</p>	<p>Chip cards for simple and secure selection of Security Levels and parameter setting. List of chip-cards available on request.</p>		
<p>MD-WHK</p>	<p>Wireless repeater of acoustic indications for WTMDs. Bluetooth audio function to be requested at WTMD ordering time.</p>		<p>MD-WHK</p>
<p>UPPER CONNECTION MODULE</p>	<p>This module along with an extension cable allows the connection of power supply and serial communication to personal computers or CEIA accessories.</p>		<ul style="list-style-type: none"> • 46650 • 180 mm: 89040 • 5 m: 95352
<p>TOP POWER CABLE</p>	<p>This cable allows the AC/DC adapter to be connected to PS/COM port located on top of the TX antenna to supply the Metal Detector Gate.</p>		<ul style="list-style-type: none"> • 10 m: 64228 • 20 m: 68346

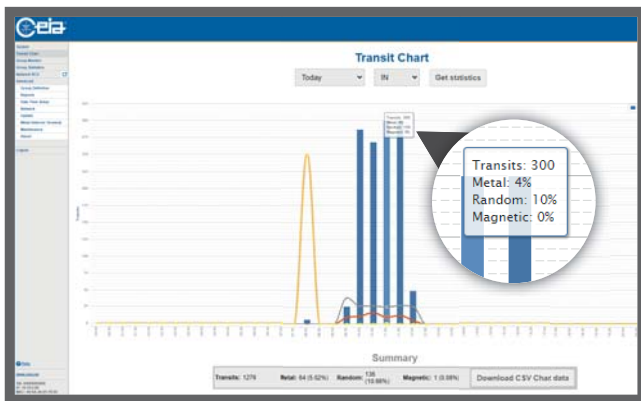
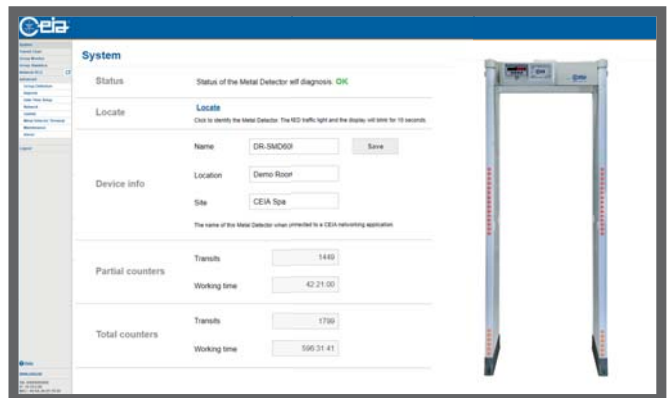
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INTEGRATED WEB-SERVER & LOGGER (OPTION)



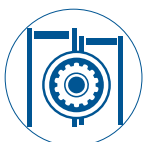
MONITOR

- Status monitoring of Metal Detector network in real time
- Centralized Setting of the Metal Detectors' working parameters
- Transits flow monitoring



REPORT

- Automatic statistical reporting of people screened and alarm rates
- Detailed reporting of the transits data and of the Security Device configuration data



CONTROL

- Security level verification and signals remote control
- No server or specific client software required, only a web browser
- Zero configuration network for simple setup
- 2 x Ethernet 100base-TX



APSiM2 Plus, APSiM3 Plus

The APSiM2 Plus, APSiM3 Plus modules allow you to protect and manage your checkpoint better while saving labor hours in the process.

SPECIFICATIONS

GATE STRUCTURE	Useful transit area (W x H): 720 mm x 2050 mm (standard configuration)
	820 mm x 2050 mm (wider passage width)
	Antivandalic and antitampering IP66 control unit
	Antitampering ON/OFF switch
	State-of-the-art, robust and washable panels
	Protected against aging, weather and wear
OPERATIONAL FEATURES	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 15 m/sec.)
	Built-in operational functional verification (OFV)
	One-touch key reading of inbound, outbound and Security Level Data
QUALITY	Continuous self diagnostic system
	Proven reliability
	No periodic re-calibration and preventive maintenance required
	No scheduled maintenance
	Fully digital design
ALARM SIGNALLING	Multi-zone display bar for "height on person" localization
	Dual side 20 x 2 localization zones
	Specific shoe alarm color indication
	4 light bars with selectable entry/exit and pacing indication
	Green and red metering signals proportional to the mass of the detected target
	10 selectable continuous and pulsed tone plus 34 special tones
	10 selectable sound intensities ranging from 0 to 90 dbA at 1m
	Random alarm capability with independent counters, alarm tone and alarm volume
Met-Identity technology (separate Ferrous and Non-Ferrous alarm signalling)	
TYPE OF SIGNALLING	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
	20 x4 distinct zones (20x2 entry side and 20x2 exit side)
PROGRAMMING	Up to 50 built-in Security Programs
	Remote via Infrared Remote Control Unit, BT 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
INSTALLATION DATA	Automatic synchronisation between two or more metal detectors with distance of down to 5 cm without the use of external cables
	One Touch Automatic Self Installation (OTS)

ENVIRONMENTAL DATA

- **POWER SUPPLY:** 100...277V~ ±10%, 47...63Hz, 40 VA typical consumption
- **OPERATING TEMPERATURE:** -20°C to +65°C (-37°C to +70°C upon request)
- **STORAGE TEMPERATURE:** -37°C to +70°C
- **RELATIVE HUMIDITY:** 0 to 95% (without condensation)

CERTIFICATION AND COMPLIANCE

- Fully compliant with the NIJ-0601.02 Standard requirements
- Complies with the applicable Standards for Law Enforcement and Correctional Facilities
- Compliant with and certified to the applicable Standards for Enhanced Metal Detectors (EMD)
- Compliant with all Airport Security Standards worldwide
- Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety
- Compliant with applicable International Standards for electrical safety and EMC

APPLICATIONS

- ✓ GOVERNMENT BUILDINGS
- ✓ AIRPORTS
- ✓ INDUSTRIES (SECURITY)
- ✓ INDUSTRIES (LOSS PREVENTION)
- ✓ NUCLEAR FACILITIES (SECURITY)
- ✓ PRISONS (VISITORS)
- ✓ PRISONS (INMATES)
- ✓ COURTS
- ✓ DATA PROCESSING CENTERS (EDP)

SAMPLE INSTALLATIONS



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