CEIA USA’s mission is to sell, distribute and service the world’s most advanced technology in electromagnetic fields manufactured by CEIA to the Federal Government, State and Local Governments and Corporations.

CEIA USA strives to educate our current and potential customers on the proper deployment of Metal Detector Security Technologies with the aim of achieving the best operational response.

CEIA USA will continue to increase its operational base of customers through education, seminars and trade shows and with continuous improvement in the technology offered.

CEIA USA, Cleveland, OH
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1962</td>
<td>CEIA was founded when it began production of Metal Detectors for the textile industry capable of detecting small quantities of metal in fabric in order to protect the production machinery.</td>
</tr>
<tr>
<td>1988</td>
<td>The revolutionary CEIA 02PN6 column model is selected by Federal Bodies as the device for mobile, open-air applications.</td>
</tr>
<tr>
<td>1991</td>
<td>CEIA Metal Detectors are certified by FAA according to the “3-gun-test” security standard.</td>
</tr>
<tr>
<td>1996</td>
<td>CEIA patents the elliptical column walk-through Metal Detector. This efficient, aesthetically pleasing device can easily and unobtrusively be used in high level government agencies and private corporations.</td>
</tr>
<tr>
<td>1997</td>
<td>CEIA USA is founded in Cleveland, OH.</td>
</tr>
</tbody>
</table>
The company releases the SMD601 Multi-Zone Walk-Through Metal Detector, specifically designed to comply with the new NIJ Standard-0601.02 (U.S. Dept. of Justice).

2002

CEIA is selected by the United Nations as the Metal Detector supplier for humanitarian demining in Afghanistan and other conflict regions.

2002

CEIA 02PN20 is selected and certified for installation in North American Airports following tightening of security standards in response to the events of September 11, 2001.

2004

The company releases the SMD601 Multi-Zone Walk-Through Metal Detector, specifically designed to comply with the new NIJ Standard-0601.02 (U.S. Dept. of Justice).

2005

New CEIA USA headquarters opened in Cleveland, OH, and it has since grown to over 42,000 square feet.

1998

CEIA’s in house EMC testing laboratory is governmentally accredited as a “competent body in the matter of electromagnetic compatibility.”
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<td>2007</td>
<td>The company unveils the CEIA CMD, a very high performance Compact Metal Detector. The one-piece foldable design allows the Metal Detector to be deployed quickly and to be carried easily.</td>
</tr>
<tr>
<td>2008</td>
<td>CEIA USA installs the first Loss Prevention System, a computer-aided metal detector designed to stop theft of valuable metal items in production plants and distribution centers.</td>
</tr>
<tr>
<td>2010</td>
<td>CEIA USA’s PMD2 Plus revolutionizes the security checkpoint with available elliptic shape, 60-zone detection, Met-Identity technology and Breakthrough Value</td>
</tr>
<tr>
<td>2010</td>
<td>CEIA EMA automatic bottled liquids scanner is certified for use in Airports.</td>
</tr>
<tr>
<td>2011</td>
<td>EMIS, automatic screening device for non-metallic cargo, is approved by Governmental Security Authorities for use in Airports.</td>
</tr>
<tr>
<td>2013</td>
<td>CEIA introduces the SA/80 series, the first 25, 50, 100 kW High Efficiency Green Generators with integrated Quality Data Logger and Web Server.</td>
</tr>
</tbody>
</table>
Today’s security sector and the ever-stricter regulations relating to Metal Detectors for inspecting people in transit require equipment with the highest operational and functional performance.

With over 45 years of experience in designing and manufacturing Metal Detectors, CEIA has developed a series of devices with superior sensitivity and throughput.

In high-sensitivity applications, CEIA can detect small metallic objects, such as a single razor blade while still providing optimal immunity to environmental interference.

For high flow-rate applications, CEIA offers Walk-Through Metal Detectors with extremely high discrimination of personal metal objects to minimize the incidence of nuisance alarms.

CEIA is a manufacturing company specialized in the design, engineering and production of Metal Detectors and Electromagnetic Inspection Devices.
The preference given to CEIA Metal Detectors by top public and private bodies confirms its position as the market leader in airport security.
Sophisticated threat detection and high passenger flow rates today require Enhanced Metal Detectors (EMD).
The considerable task of planning a major security event requires the most reliable metal detectors for security checkpoint installations.

Through its research and development laboratories, CEIA is continuously investing in the design of equipment that provides the best compliance with the security requirements in public events.

The results are Metal Detectors that have extremely high immunity to outside interference and high discrimination of personal objects. This allows a higher flow rate and improved processing times.
CORRECTIONAL FACILITIES

VERY HIGH SENSITIVITY MULTI-ZONE METAL DETECTORS FOR LAW ENFORCEMENT AND CORRECTIONAL FACILITIES

- Fully compliant with the NIJ-0601.02 Law Enforcement Standard
- 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
- Up to 50 built-in Security Programs
  - Up to 30 International Standards
  - Up to 20 Customizable Levels
- Exceptional Immunity to external interferences
- Unmatched Reliability
- Rapid Installation

* NIJ IS NATIONAL INSTITUTE OF JUSTICE - U.S. DEPARTMENT OF JUSTICE

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

The SMD601 Plus Loss Prevention Metal Detector prevents the theft or accidental removal of metallic objects. As people transit the system, their metal content is compared to a saved personal profile.
CEIA NETID® NETWORK MANAGEMENT SYSTEM

- Centralized network management of EMDs and all others CEIA screening devices
- Real-time EMD monitoring for supervision and proactive maintenance
- Passengers flow monitoring and centralized data collection
- Comprehensive reporting system with automated report generation and distribution
METAL DETECTOR INTEGRATED WEB-SERVER & LOGGER

- 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, all you need is a browser
- Zero configuration network for simple setup
The EMA is a compact device designed for the screening of bottles and their contents with the goal of detecting the presence of combustible, flammable and explosive liquids. When the operator places the bottle in the inspection cavity, the measurement process starts automatically.

The entire volume of the bottle is analyzed in order to verify its conformity with benign liquids. After a few seconds, the unit provides an OK or Alarm message without requiring any data interpretation by the operator. Calibration is carried out automatically by the unit. The electromagnetic fields generated in the inspection cavity are weak in intensity and non-ionizing, therefore completely safe for the liquids and for the operator.
The EMIS is designed to automatically detect detonators and metal components of explosive devices inside paper, newspaper, perishable goods such as produce, fish and meat (fresh or frozen) and organic material in general. Electromagnetic inspection is the most suitable and quickest method for checking non-metallic cargo. The advanced technology employed in the EMIS minimizes the interaction with the goods themselves and does not depend on visual interpretation of an image by an operator.

The use of EMIS in Airport Cargo inspection has been approved by Governmental Security Authorities.
Thanks to many years of in-depth research in the field of Metal Detection, CEIA has established itself as a primary manufacturer of high-performance Ground Search Metal Detectors.

CEIA’s approach to the development of its Detectors has been to employ the most advanced electronic and mechanical technologies that become available: Surface Mount Technology (SMT), microprocessor control, Digital Signal Analysis, in-the-field software upgrade capability and the use of high-quality materials for the search probes and for the other mechanical parts.

The one-piece foldable design allows the Metal Detector to be deployed quickly and to be carried easily.

The **CEIA CMD** is a very high performance, high-sensitivity Compact Metal Detector designed to satisfy the most stringent operational requirements in any application field.
GROUND SEARCH METAL DETECTORS

CEIA METAL DETECTORS: LEADER IN PERFORMANCE AND RELIABILITY

Tests carried out under controlled conditions by Authoritative International Bodies demonstrate that the CEIA Metal Detectors provide overall superior performance in the areas of detection distance, soil compensation capability and immunity to external interference.

QUALITY MEANS SAFETY

Thanks to the extensive use of robotic and automated production systems, CEIA is able to offer the humanitarian market equipment that satisfies military quality and reliability standards at extremely competitive prices.

The MIL-D1 is a portable, high-sensitivity Metal Detector designed to detect magnetic and non-magnetic metals in conductive and non-conductive soils, including laterite and magnetite.
COMPLETE SUPPORT FOR TECHNICAL AND OPERATIONAL COURSES

CEIA provides complete support for technical and operational courses, given by certified personnel, either on site or at its own premises. The curriculum includes first and second line maintenance, training for operators and a course for operator instructors. The teaching activities are backed up by comprehensive documentation, and are divided between classroom seminars and practical work in the field.

MIL-D1/DS
The MIL-D1/DS Metal Detector is an active EMI device based on the transmission of an alternating, low-frequency magnetic field in order to detect deeply buried unexploded ordnance (UXO).

A metal detector antenna measurement being performed by a triple-axis robot.

Robot mapping of the magnetic and detection field.

Proprietary engineering consisting of a powerful analytical engine designed exclusively by CEIA specifically for metal detection.

Electronic Boards
Functional Burn-In: 200 hours minimum

Technical Maintenance Tool Kit
Performing clearance operations for UXO, munitions and metal containers buried in the sea bed or in lakes first requires gathering as much information as possible on the location and characteristics of the target objects. The quality of gathered data is critical as it is used to plan cleanup operations which, given the fact that they often take place at considerable depth, require specialized personnel and equipment, resulting in substantial costs and time.

CEIA Multi-Zone UXO Metal Detector for submarine operations is equipped with a linear antenna array designed to operate attached to a manned or unmanned submersible vehicle and capable of functioning at depths up to 300 m. The system is capable of electromagnetic exploration of the sea bed and, in addition to location, it provides measurement data on the dimensions of the detected metal object and on how deep the object is buried.
CEIA THS/PH21N Pharmaceutical Metal Detection Systems feature extremely high detection sensitivity towards contaminating metals, whether ferrous, non-ferrous or stainless steel, even when present in tiny quantities.

The design and construction of the THS/PH21N Metal Detection Systems comply with FDA Title 21CFR110 requirements.

The carefully-selected materials used in construction do not interact with pharmaceutical products, and thus do not modify or alter their composition.

The mirror finished surfaces guarantee quick, easy cleaning of the components that are in contact with the product. The technological choices made by CEIA allow the parts in contact with the product to be disassembled and maintained in a short time and without the use of machine-specific tools.

* U.S. DISTRIBUTION FOR THE FOOD INDUSTRY: HEAT AND CONTROL (www.heatandcontrol.com)
CEIA THS/PH21N-FFV
Designed for the inspection of granular and powder products

CEIA THS/PH21N-DT
Dust tight transit pipe and ejection system to prevent dispersion of the product

CEIA THS/PH21N-WIP
Special built-in washing system allows complete cleaning of the conduits after completion of each production batch

CEIA THS/PH21 Metal Detection Systems offer detection, construction quality and reliability characteristics that make them the most suitable and effective solution to automatic elimination of metal contaminants
For more than 20 years CEIA has been working on the design and manufacture of no-contact Induction Heating Devices for metal treatment. High and medium-frequency generators, control units, optical sensors for measuring temperature and automatic solder-alloy wire supply devices make up the line of products known as the Power Cube Family, which are ideal for industrial processes of heat treatment and braze welding.

CEIA’s unique technological solutions allow the manufacturing of power equipment with compact size, extremely high-energy efficiency and long-term reliability.

The high performance they offer contributes to the widespread use of CEIA systems in the most important industrial fields, where they have received the approval of end users and final-product manufacturers.
The CEIA System’s Advantages

- **Efficiency and Compactness**
  - High level of performance with minimal operating costs
  - Lower energy consumption

- **Complete Operator Safety**
  - EMC and CE certified
  - Standard Galvanic isolation

- **Process Control and Repeatability**
  - Auto frequency tuning for optimal energy transfer to any load
  - Certified stability of power output

- **Reliability and Flexibility**
  - MTBF certified

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**Generators**

- **900 series**
  - High Frequency
  - (2.8 to 6 kW)

- **200 series**
  - Medium-High Frequency
  - (6 to 48 kW)

- **50 & SA/80 series**
  - Medium Frequency
  - (6 to 100 kW)
CONTROL UNITS

ES 3M, MicroMEtric oPtical
SENSor baSE
tEMpErAturE sEnsors
Control unIts
NEt MaStEr 
coNtrollEr
Multi-device
Network Controller

MASTER CONTROLLER v3
Integrated Controller of Heating and Soldering Cycles

POWER CONTROLLER v3
Integrated Controller of Heating Cycles

NET MASTER CONTROLLER
Multi-device
Network Controller

THERMAL PROFILE MONITORING
The Thermal Profile System allows programming, quality certification and traceability of each thermal cycle

TEMPERATURE SENSORS

- **SH15/SLE**
  Single-color Series [176°F to 3632°F]

- **SH2C/SLE**
  Dual-color Series [1112°F to 3992°F]
APPLICATIONS

HARDENING

BRAZING

HEATING

TIN SOLDERING
CEIA maintains its dedication to cutting edge electromagnetic research. Nearly 20% of CEIA’s staff is focused on researching tomorrow’s threat detection technology using electromagnetics.
The quality and reliability levels of CEIA equipment are recognized throughout the world by private companies and governmental institutions, who have chosen it following stringent comparative testing. This objective has been achieved by using the most advanced technology in all phases of production.

CEIA creates breakthrough value for its customers by combining state of the art materials, advanced components and extensive manufacturing automation. This provides superior quality, reliability and consistent performance to CEIA products.
User safety is a primary focus of CEIA product development. All CEIA equipment meets or exceeds local and international standards for electromagnetic emissions and immunity as well as electrical safety standards used worldwide.
CEIA’s Quality System extends throughout the company, from the design stage through production, quality control and after-sales service.

CEIA equipment has a strong reputation for reliability and maintenance free operation. This is achieved through extensive factory testing for product conformance to strict internal standards. Detailed adherence to ISO 9001 Standards also provides the traceability to support clients for many years after their equipment goes out of production.

The tight tolerances employed during the factory acceptance test produce such consistent metal detectors that field calibration is not required.
CEIA USA, Cleveland, OH

CEIA USA, training classroom

CEIA USA, practical training room

WTMDs, Hand Held Metal Detector, Ground Search Metal Detectors and spare parts ready for delivery to customers

CEIAcertified. An ISO 9001 Company
APPLICATIONS

SECURITY APPLICATIONS
Airports and Ports, Embassies, Military Installations, Industry, Penal Institutions, Government Buildings, Banks, Stadiums, Distribution Centers, Data Processing Centers, Hospitals

INDUSTRIAL APPLICATIONS
Food, Textile, Mining, Chemical, Manufacturing

INDUCTION HEATING APPLICATIONS
Hardening, Brazing, Heating, Tin Soldering

Ceia, An ISO 9001 Company