



# Universal Defense Military Equipments

## Christopher Trading

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Universal Defense has the know-how to develop and provides key products.

Various patents and inventor awards for Company-developed products bear eloquent testimony to this fact. Our intimate knowledge of our products enables us to offer countries best flexibility and products tailored to their specific needs. In fact, our strength lies in our ability to offer custom solutions. We produce the flexible software needed to meet government high-security requirements and to implement concepts customers bring to us.

UDME (Universal Defense for all Military Equipment) is one of the most important companies that can provided radars systems world wide with a high technology systems for military and country safety, Universal defense also provided systems for force protection, border surveillance, port security, airport security, and perimeter surveillance, and other wide area security applications.

As a competent consultant and recognized installer, UDME offers a wide choice of security and surveillance systems as the following:

### **Surveillance sensor**

The detection principle is mechanical, i.e. the impact sound, which an intruder causes, is transferred, taken up by the fence to the cable and converted to an electrical signal.

The sensor cable, which is woven or tied up into the fence, is equivalent sensitive on its whole length.

The evaluation of the electrical signal is prepared by a center and converted into an alarm. In the center are filters, which eliminate unwanted signals. That can be rain, wind etc. By filtering these events one achieves a good relationship between desired and unwanted alarms.





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### **MTC-45 Surveillance Camera System - Day/Night Surveillance**



The MTC-45 surveillance camera system enables monitoring and observation of sensitive locations or potential trouble spots. It provides around-the-clock detection and security for paramilitary and civilian security applications. The MTC-45 surveillance camera system is ideal for perimeter surveillance of sensitive sites and areas such as:

- National borders
- Air and sea ports
- Pipelines
- Oil and gas terminals
- Power stations
- Communication transmitters
- Prisons

### **MTC-45 Surveillance Camera System Thermal Capabilities**

The MTC-45's surveillance camera system's Infra Red Thermal Sensor can also detect overheating and fires, before flames and smoke become visible. This makes it the ideal, cost-effective, early-warning device for monitoring sites such as:

- Electricity generating units
- Power stations
- Fuel farms
- Strategically significant areas and buildings

A key feature of the MTC-45 surveillance camera system is that it can be fixed to a solid base at a particular observation point and connected via optical fiber or wireless for remote display and centralized control by an operator situated at a safe distance. It can also be mounted



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## CCTV software security all-in-one box

This is a state-of-the-art, embedded CCTV software and hardware product that integrates a number of related CCTV applications, all into one box. Avoiding the necessity for a complicated cable installation and network protocol integration the Dream Box is economical and compact for its users.



**CCTV Box** contains various applications defined in most security solutions, including Digital **CCTV Box** the is state-of-the-art, embedded CCTV software and hardware product that integrates a number of related CCTV applications, all into one box. Avoiding the necessity for a complicated cable installation and network protocol integration the Dream Box is economical and compact for its users.

**CCTV Box** contains various applications defined in most security solutions, including Digital Video and Audio Recording, Video & Audio Matrix Switcher, Outdoor and Indoor Video Motion Detection System (VMD), Security Management System (SMS) and Transmission system.

### Low Cost CCTV Security System

The **CCTV Box** is substantially lower in price than the cost of the other products' applications combined, a factor, which positions it as the ultimate CCTV security system for all strategic facilities. Its target markets include governmental, institutional and other sensitive facilities, such as airports, train stations, seaports, prisons, casinos and hospitals, all of which require the use of high quality CCTV applications.

I Video and Audio Recording, Video & Audio Matrix Switcher, Outdoor and Indoor Video Motion Detection System (VMD), Security Management System (SMS) and Transmission system.

## Smart Security Fences with YAEL-18

YAEL-18 is a Taut Wire Intrusion Detection System specifically intended for integration with any type of concertina, or barbed tape security fences.

The system is designed to provide an alarm signal at the control center when an attempt is made to cross the concertina security fences by compressing, lifting, pulling the concertina, or by cutting through the barrier.



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### **TYPICAL APPLICATIONS:**

The YAEL-18 can be adapted easily to almost any combination of concertinas

Typical applications are:

Three concertinas, or more, mounted as a pyramid shape barrier

Concertinas attached to a chain-link fence

Concertina spread along the top end of a wall, or along chainlike fence

Concertina along the roof edge of a building

### **The YAEL-18 features:**

Three dimension physical barrier combined with an alarm system

The entire barrier is flexible, devoid of solid supports which might be used to aid an attempted intrusion

Effective delay of unauthorized perimeter crossing

Ease of installation allows for quick deployment

No need for foundations

### **Intelli-FLEX - Micro phonic Cable Fence Disturbance Sensor**

Intelli-FLEX is a unique micro phonic intrusion detection system for outdoor, fence-mounted perimeter security applications. Utilizing signals generated by the minute flexing of a proprietary triboelectric coaxial sensor cable, specific characteristic intrusion signatures are analyzed by a powerful digital Signal Processor.

Intelli-FLEX will detect an intruder cutting through, climbing on or lifting the fence fabric.

### **Installation of the Intrusion Detection System**

Installation is quick and simple. Inexpensive UV-resistant tie wraps secure the sensor cable to the fence at 30 cm (1.0 ft.) intervals. The Intelli-FLEX Signal Processor can monitor two independent zones, each with a maximum of 305 m (1000 ft.) of sensor cable.



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A programmable microprocessor enables the user to set the operating parameters for each zone using a simple plug-in Configuration Module. Separate parameters are set for cut and climb detection, resulting in independent alarm processing to optimize detection and minimize false alarms.

## Advanced Outdoor Vibration Detection System

Barricade 500 is an advanced outdoor vibration detection system featuring enhanced reliability, effective control and ease of installation.

Drawing on extensive field experience and advanced technologies it offers a proven solution for outdoor perimeter protection.



The Barricade 500 system is adaptable to most types of fences constructed of metal fabric, such as welded metal mesh, chain link, barbed wire screen and barbed-wire concertinas.

This system is designed to detect attempted intrusion through the perimeter's fence. The proprietary vibration sensors type GS-18, fastened to the fence fabric, detect vibrations caused by scaling the fence or by cutting through it. These vibrations produce electronic signals which are analyzed by the control unit.

The unique inertial security sensor GS-18 operates as a band-pass-filter with a uniform sensitivity over a wide spectrum of frequencies.

The sensor does not react to small vibrations such as those generated by low intensity winds along the fence, but will react to any vibration caused locally by an intruder.

The sealed security sensor is weather proof and very simple to install. The Barricade 500 control unit is the BCU-1100 which is a computer based user-friendly monitor and control for 16 alarm zones and one meteorological sensor (optional).

Due to its great versatility, the BCU-1100 control unit may be connected to any of control centers, existing control centers or any others.

The Barricade 500 system configuration may vary in order to conform with security requirements, type of fence or terrain.

The system is practically maintenance free with a very low false alarm rate, and others

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Some of Universal Defense radars systems:

### \* **STS-350-perimeter Surveillance Radar System (PSRS)**

The STS-360 (PSRS) provide automated perimeter security for encampments, installations, equipment, and other high value permanent and temporary site.



### \***Long-Rang Radar**

#### **STS-12000 Remote Detection and Tracking Sensor (PDTS)**

The STS-12000 provides automated wide area surveillance and tracking of intruding personnel, watercraft, and vehicles, and communicates that information to a command post for response determination. The STS-12000 is designed for force protection, border surveillance, port security, airport security, and perimeter surveillance, and other wide area security applications.



### \* **PSR 1400**

#### **PERMIMETER SURVILLANCE RADAR**

The PSR-1400 is high resolution radar that accurately detects personnel and vehicles up to 1400meters rang. And it operates in vertically any climate, weather or lighting conditions to provide 24/7 security, scanning 360 every second and covering over 6 square km (2.3 square miles).





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### **APPLICATIONS**

- .Detect personnel and vehicles
- .Secure borders
- .Monitor ports
- .Guard industrial facilities
- .Protect forces
- .Defend public infrastructure

### **BENEFITS**

- .Continuous wide area surveillance
- .Early warning of intruders
- .Low false alarm rates
- .Camera integrations
- .Annunciator integration
- .Simple to operate
- .Cost effective

### **Some Features for our radar systems;**

Low cost

Millimeter wave high resolution radar technology with 360 degree azimuth coverage.

Battery backup for 20 hours operation.

Built-in GBS and compass for automatic sensor placement reporting

Update and scan rate of once per second

High azimuth and rang accuracy for improved intrusion recognition

Target surveillance: within 5 minutes of startup; 30 seconds of relocation.

High resolution radars with 360 degree coverage in azimuth



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### ULTRA HIGH SENSITIVITY METAL DETECTOUR







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### **SMD1000 Multi-Zone**

The SMD600 Multi Zone is designed to satisfy the strictest security requirement, especially in penitentiaries and other application where the detection to extremely small metal masses is required.

The SMD1000 characterized by high immunity to electrical interference, full-height light bar displays the horizontal location of the detected metal masses in transit, extremely high reliability, local or remote programming with networking capabilities.

#### **MAIN FEATURES**

- .Immediate selection of international standards
- .Detection of magnetic, non-magnetic and mixed alloys metal weapons
- .High detection speed: up to 15 m/s (45ft/s)
- .Very high immunity to electromagnetic and mechanical interference.
- .Professional high integration and high reliability electronic.
- .Control unit incorporated into the detector.
- .Easy maintenance: modular control unit for a rapid replacement.

### **Surveillance Security Guard Robot**

#### **SGR-A1**

The SGR-A1 allows for unprecedented target recognition at all hours to provide the ultimate protection from intrusion. The innovative technology consists of multiple integrated systems to make security more affordable than ever.



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### Advanced Security system



### Surveillance

Wide-range camera capability dramatically enhances performance and effectiveness



High reliability the surveillance device are synchronized with the autonomously detected mission.



### Target Tracking

The system can automatically track multiple targets with displays of their travel paths upon detection.



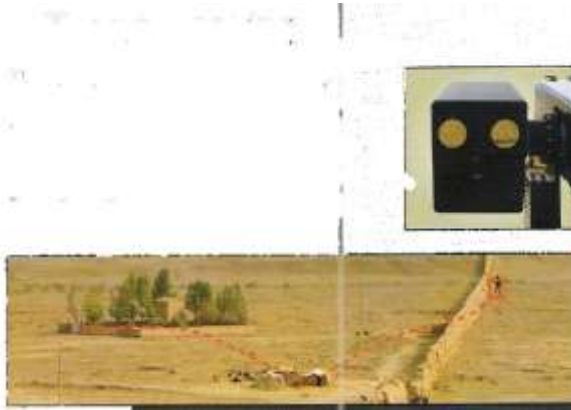
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### Surveillance software

Panorama mode: scan for wide area detection



Preset mode: Intensive surveillance for preset area



### ICR (infrared Cut filter Removable)



ICR is on as a color camera and off for increasing light sensitivity in monochrome mode.

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### Integrated System Control

#### Control Console

The user has complete control of the control consoles. A detecting, tracking, and suppressing mission is operated through the system. Methods of control stick and touch careen are used for video analysis.



### Powerful Network Capabilities

Multiple systems are connected to a distributed network for constant high-level security. Networking enables a large number of security systems for affordable operation.





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### Security and mobile

#### **SUPER GUARD Fiber Optic Mesh Intrusion Detection System**



Super-Guard is a cutting edge intelligent perimeter intrusion detection system combined with Fiber Optic Sensor and Optical Radar Technology. It offers an accurate detection of any type of intrusion by sensing reflected echo from the fiber optic cable when an intruder cuts or pulls the cable by force of larger than 10 ~ 20 kg. Despite its launch in market not long ago, Super-Guard is well received by world - wide customers as the only system that can replace the current conventional security system.

Conceptional view of Integrated Security System with Super-Guard and CCTV System

Super-Guard offers an integrated security system combined with other security systems such as CCTV system, IR Sensor, etc.

It can significantly reduce the total costs of an Integrated Security system by reducing the number of CCTV cameras and night lightings thanks to its 15m location accuracy.

#### **Features & Advantage**

Virtually free from false alarm

- ▶ No vulnerability to defeat by an intruder
- ▶ 15m location detection accuracy
- ▶ Immune to environmental influences
- ▶ Versatile Applicability (Free-standing installation applicable)



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### (Intelligent Surveillance & Combat Robot)



The (Intelligent Surveillance & Combat Robot) is a New concept of Hybrid technology product to control the infantry rifle remotely in the field with an enhanced night surveillance, detection, tracking and auto-firing capability.

This ROBOT can be utilized as the Movable type for Tactical Deployment mission as well as Fixed type for Stationary site mission.

#### **System Characteristics**

Auto Detection and Tracking Function

- ▶ Auto / Semi - Auto Fire Selection Mode
- ▶ Select and Allocate Detection Area Function
- ▶ Range of Detection
  - over 1.2 km at Day
  - over 500 m at Night (without moon & star light)
- ▶ Effective Range of Gun (K-2)
  - over 500 m at Day
  - over 300 m at Night (without moon & star light)

#### **HI-SCAN 60TiX**

**HEIMANN X-RAY INSPECTION SYSTEM**





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### Feature highlights

- Automatic detection of explosives in carry-on baggage
- Analysis of Zeff and density using independent views
- Maximum baggage throughput / real time evaluation
- Proven, ergonomic operating concept is retained

### Additional highlights

- Two high-resolution and detailed views (Dual View)
- X-ray generator with optimized spectrum
- High resolution XADA sensor technology
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities

### Specifications

Max. object size	615 (W) x 410 (H) [mm] 24.2'' (W) x 16.1'' (H)
Dimensions	3300 (L) x 1310 (W) x 1400 (H) [mm] 90.6'' (L) x 51.6'' (W) x 55.1'' (H)
Weight	approx. 1600 kg approx. 3528 lbs

### HI-SCAN 60i



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### Feature highlights

- High-End processor technology
- High-Speed digital signal transmission
- HI-MAT Plus advanced material classification
- High image resolution

### Additional highlights

- 24 Bit real time image processing
- New ergonomic user interface
- Free programmable priority keys

### Specifications

Max. object size	615 (W) x 410 (H) [mm] 24.2" (W) x 16.1" (H)
Dimensions	2004 (L) x 850 (W) x 1284 (H) [mm] 78.9" (L) x 33.5" (W) x 50.6" (H)
Weight	approx. 400 kg approx. 881.9 lbs

### HI-SCAN 60si



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### Feature highlights

- New X-ray generator with optimised spectrum
- New high resolution XADA sensor technology
- New HiTraX II system platform with extended scope of services
- High resolution image display with doubled resolution

### Additional highlights

- Up to 37 mm steel penetration
- Wire detectability up to AWG 41
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities
- Integrated radioactivity sensor (optional)

### Specifications

Max. object size	615 (W) x 455 (H) [mm] 24.2" (W) x 17.9" (H)
Dimensions	2004 (L) x 850 (W) x 1284 (H) [mm] 78.9" (L) x 33.5" (W) x 50.6" (H)

### HI-SCAN 7555si

### Feature highlights

- New X-ray generator with optimised spectrum
- New high resolution XADA sensor technology
- New HiTraX II system platform with extended scope of services



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- High resolution image display with doubled resolution

### Additional highlights

- Up to 37 mm steel penetration
- Wire detectability up to AWG 41
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities
- Integrated radioactivity sensor (optional)

### Specifications

Max. object size	750 (W) x 550 (H) [mm] 29.5" (W) x 21.7" (H)
Dimensions	2120 (L) x 985 (W) x 1445 (H) [mm] 83.5" (L) x 38.8" (W) x 56.9" (H)
Weight	approx. 580 kg approx. 1287.7 lbs

### MSC 2020

### MOBILE SECURITY CHECKPOINT



### Feature highlights

- Complete security checkpoint solution
- Detection of explosives, narcotics and dangerous goods
- Ideal for outdoor public events and facilities
- System setup or dismantled in less than 30 minutes

### Additional highlights

- Standardized 20 ft. container





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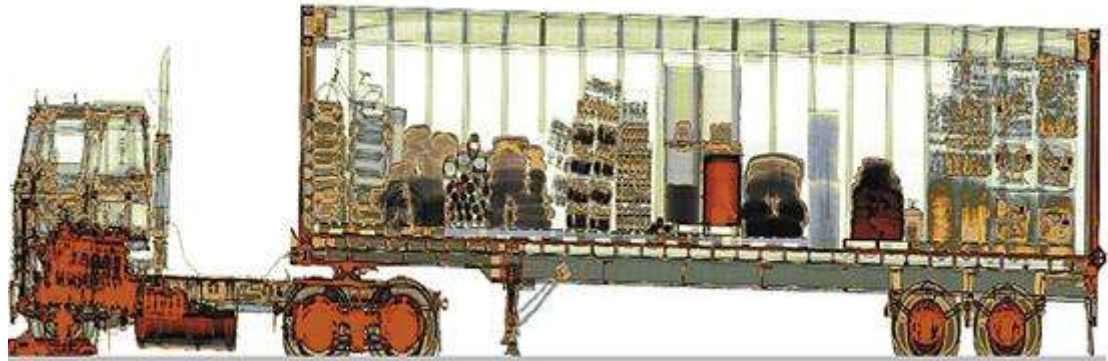
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X-ray technology is a central field of expertise within UDME Detection. With more than 38,000 X-ray inspection systems that carry the name and reputation of UDME installed in more than 150 countries, UDME Detection plays an integral part in detecting explosives, weapons, narcotics and contraband such as cigarettes and alcohol in baggage, mail and freight.

UDME Detection X-ray technology enables aviation security authorities, police professionals, customs experts and other private industry customers to optimize security measures, non-intrusively, in a wide variety of security environments.



### **Mail & parcels**

The **Mail & parcels** section includes products especially for the non-intrusive inspection of smaller items, i.e. mail and parcels. One applicable selection criterion is the maximum object size in the inspection process. All X-ray systems in this category are based on the proven SiProX and HiTraX technology, offering superior image quality and excellent usability



### **Baggage & freight**





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### Feature highlights

- Ideal method of inspecting oversized and bulky freight
- Ease of handling heavy goods via low conveyor belt
- HiTraX technology employing real-time image processing
- HI-MAT Plus: allows improved material classification

### Additional highlights

- IMS: image data management (optional)
- Ergonomically designed operating console features user-definable key functions
- Integral network interface
- Typical penetration: 30 mm of steel
- High-resolution detector line
- 

### Specifications

Max. object size	900 (W) x 760 (H) [mm] 35.4" (W) x 29.9" (H)
Dimensions	3040 (L) x 1290 (W) x 1840 (H) [mm] 119.6" (L) x 50.8" (W) x 72.4" (H)
Weight	approx. 850 kg approx. 1874 lbs

### HI-SCAN 1415



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### Feature highlights

- Universal X-ray system for palletized items
- Excellent image presentation (optimized X-ray geometry)
- Outstanding image quality with new HiTraX electronics
- New HI-MAT Plus technology for advanced material distinction

### Additional highlights

- Typical penetration: 30 mm of steel
- OTS Operator Training System available as option

### Specifications

Max. object size	1440 (W) x 1700 (H) [mm] 56.7" (W) x 66.9" (H)
Dimensions	5360 (L) x 2140 (W) x 2285 (H) [mm] 211" (L) x 84.3" (W) x 90" (H)
Weight	approx. 1900 kg approx. 4189 lbs

### HI-SCAN 1550





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### Feature highlights

- Universal X-ray system for bulk items
- Excellent image presentation (optimal X-ray geometry)
- Outstanding image quality with new HiTraX electronics
- New HI-MAT Plus technology for better material distinction

### Additional highlights

- Typical penetration 60 mm of steel
- Large range of applications

### Specifications

Max. object size	1540 (W) x 1500 (H) [mm] 60.6" (W) x 59" (H)
Dimensions	6900 (L) x 2970 (W) x 2070 (H) [mm] 271.6" (L) x 116.9" (W) x 81.5" (H)
Weight	approx. 6000 kg approx. 13200 lbs

### HI-SCAN 1880-3s



### Feature highlights

- Universal X-ray system for bulk items
- Excellent image presentation (optimal X-ray geometry)
- Outstanding image quality with new HiTraX electronics
- New HI-MAT Plus technology for better material distinction

### Additional highlights



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- Typical penetration 60 mm of steel
- Dual view concept

### Specifications

Max. object size	1790 (W) x 1700 (H) [mm] 70.5'' (W) x 66.9'' (H)
Dimensions	approx. 7260 (L) x 3508 (W) x 3671 (H) [mm] approx. 285.8'' (L) x 138.1'' (W) x 144.5'' (H)
Weight	approx. 7500 kg approx. 16535 lbs

### Scan Trailer 8855A



### Feature highlights

- Mobile, flexible system
- Incorporates HI-SCAN 8585
- Single axle trailer for public road
- Portable power generator (option)

### Additional highlights

- Easy loading by motorized conveyor
- Penetration up to 30 mm steel (typical)
- Film safe up to ISO 1600 / 33 DIN

### Specifications

HI-SCAN	<b>Max. object size:</b> 850 (W) x 850 (H) [mm]
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33.5" (W) x 33.5" (H)

**Max. conveyor load (even distributed):**

200 kg

441 lbs

**Conveyor system:**

integrated feed-in conveyor

HD discharge roller conveyor

fold down in horizontal position for operation

**Trailer:**

1800 kg (3968.3 lbs) permitted total weight; single axle

**Body:**

ScanTrailer thermo body in sandwich technique

**Power supply:**

external power supply 230 VAC or 110 VAC +10% / -15%;  
50 Hz / 60 Hz  $\pm$  3 Hz; power cable for external power supply;  
power distribution

**Axle:**

1 trailer axle; suspension on each wheel

Trailer

**Max. speed:**

80 km/h (49.7 mi/h)

**Brake:**

operation brake overrunning type; hand operated parking brake

### Scan Trailer 130





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### Feature highlights

- Mobile, flexible system
- Incorporates HI-SCAN 130
- Heat insulated body
- Easy loading by motorised conveyor

### Additional highlights

- Penetration up to 30 mm steel (typical)
- Film safe up to ISO 1600 / 33 DIN

### Optional

- Trailer for public road
- Integrated power generator

### Specifications

**Max. object size:**

1300 (W) x 1000 (H) [mm]  
51.2" (W) x 39.4" (H)

**Max. conveyor load (even distributed):**

250 kg  
451 lbs

HI-SCAN 130

**Conveyor system:**

integrated feed-in conveyor (length approx. 1.3 m (51.2"))  
HD discharge roller conveyor (length approx. 1.3 m (51.2"))  
fold down in horizontal position for operation

For more information please refer to section 130100T.

**Trailer:**

3500 kg (7716.2 lbs) permitted total weight

**Body:**

ScanTrailer 130 thermo body in sandwich technique

**Power supply:**

external power supply 230 VAC or 110 VAC +10% / -15%;  
50 Hz / 60 Hz  $\pm$  3 Hz; power cable for external power supply;  
power distribution





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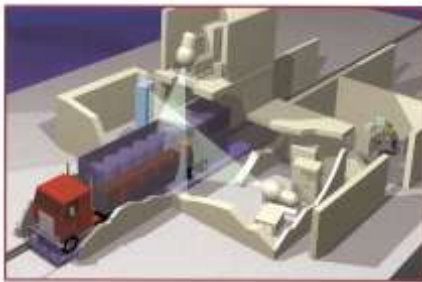
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**Axle:**  
2 trailer axles; suspension on each wheel; super elastic tyres

Trailer **Max. speed:**  
30 km/h (18.6 mi/h)

### Scanning Technologies



- **Detect** Weapons, Drugs, Explosives, Precious Metals and Other Contraband
- Control Possible Terrorist Acts
- Deter Drug Trade
- Meet and Exceed the European Community's Conventions and Expectations

### High Energy Systems

- 10 MeV X-ray system.
- Penetration greater than 360 mm (about 1 ft.) of steel
- Resolution of 5 mm (2/10ths of an inch) copper wire.
- Dual plane configuration
- Dual energy automated material identification
- Inspects at 34 cm/sec (about 1ft/sec).
- Inspects 30 to 100 containers per hour depending on conveyer system

### Advantages

- Penetration of Fully Loaded Containers
- Dual Energy Material Differentiation
- Threat Matrix Operator Assistance
- Dual Plane
- High Throughput



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### HCSV CAB 2021 N

#### Feature highlights:

- \* Mobile X-ray inspection system for the recognition of goods
- \* System setup / dismantling in less than one hour
- \* High throughput 24 Bit real time image processing
- \* Outstanding image quality with new HiTraX electronics
- \* Good penetration with low radiation dosage



### THE STATE-OF-THE-ART TECHNOLOGY (HCVS)

#### Feature highlights

- \* Stationary X-ray system for the inspection of fully loaded trucks and containers
- \* State-of-the-art technology for outstanding image quality
- \* Ideal for maritime ports, border crossings and airports dealing with heavy traffic
  - Easy and fast processing with low staffing requirements
  - \* Detection capacity reaching 100%

The HCVS is the most powerful tool in the HCV product range. It constitutes the optimized approach for security inspections For custom and police authorities, this top of range system is an indispensable tool in preventing smugglers and terrorists from continuing their illicit operations through main border points



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### HVCG

#### COMPLETELY TRANSPARENT CONTAINERS

##### Feature highlights:

- \* High energy X-ray scanner to inspect loaded trucks and containers
- \* Designed for security inspections at ports, airports, and border points
- \* Reduced footprint thanks to innovative design
- \* Autonomous system requires no external infrastructure

##### Additional highlights:

- \* Advanced technology provides a high-performance imaging capability
- \* High inspection rate
- \* Easy and fast process requires few employees
- \* Completely secured operation



### HI-SCAN 60TiX

#### HEIMANN X-RAY INSPECTION SYSTEM



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### Feature highlights

- High-End processor technology
- High-Speed digital signal transmission
- HI-MAT Plus advanced material classification
- High image resolution

### Additional highlights

- 24 Bit real time image processing
- New ergonomic user interface
- Free programmable priority keys

### Specifications

Max. object size	615 (W) x 410 (H) [mm] 24.2" (W) x 16.1" (H)
Dimensions	2004 (L) x 850 (W) x 1284 (H) [mm] 78.9" (L) x 33.5" (W) x 50.6" (H)
Weight	approx. 400 kg approx. 881.9 lbs



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### HI-SCAN 60si



#### Feature highlights

- New X-ray generator with optimized spectrum
- New high resolution XADA sensor technology
- New HiTraX II system platform with extended scope of services
- High resolution image display with doubled resolution

#### Additional highlights

- Up to 37 mm steel penetration
- Wire detectability up to AWG 41
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities
- Integrated radioactivity sensor (optional)
- 

#### Specifications

Max. object size	615 (W) x 455 (H) [mm] 24.2'' (W) x 17.9'' (H)
Dimensions	2004 (L) x 850 (W) x 1284 (H) [mm] 78.9'' (L) x 33.5'' (W) x 50.6'' (H)
Weight	approx. 400 kg approx. 881.9 lbs



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### HI-SCAN 7555si

#### Feature highlights

- New X-ray generator with optimized spectrum
- New high resolution XADA sensor technology
- New HiTraX II system platform with extended scope of services
- High resolution image display with doubled resolution

#### Additional highlights

- Up to 37 mm steel penetration
- Wire detectability up to AWG 41
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities
- Integrated radioactivity sensor (optional)

#### Specifications

Max. object size	750 (W) x 550 (H) [mm] 29.5" (W) x 21.7" (H)
Dimensions	2120 (L) x 985 (W) x 1445 (H) [mm] 83.5" (L) x 38.8" (W) x 56.9" (H)
Weight	approx. 580 kg approx. 1287.7 lbs

### MSC 2020

#### MOBILE SECURITY CHECKPOINT







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### Feature highlights

- Complete security checkpoint solution
- Detection of explosives, narcotics and dangerous goods
- Ideal for outdoor public events and facilities
- System setup or dismantled in less than 30 minutes

### Additional highlights

- Standardized 20 ft. container
- Weather resistant system
- Adaptable layout

### Specifications

Container equipped with X-ray system, metal detectors and explosive trace detector:

- System layout
- Two (2) HI-SCAN 6040i X-ray inspection systems <sup>1)</sup> with input and output roller conveyors (1.1m)
  - Two (2) PMD2 metal detector gates <sup>1)</sup>
  - Two (2) MH6 hand held metal detectors <sup>1)</sup>
  - One (1) IONSCAN 400B explosive trace detector

<sup>1)</sup> other models on request

Container	Standardized 20 ft. container
Max. object size (X-ray)	<b>HI-SCAN 6040i</b> 615 (W) x 410 (H) [mm] 24.2" (W) x 16.1" (H)
Dimensions	<b>Transport mode:</b> 6060 (L) x 2450 (W) x 2600 (H) [mm] 238.6" (L) x 95.5" (W) x 102.4" (W)
	<b>Operation mode:</b> 6060 (L) x 6800 (W) x 2600 (H) [mm] 238.6" (L) x 267.7" (W) x 102.4" (W)
Weight	approx. 4900 kg approx. 10803 lbs



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### Explosives and narcotics trace detection



Our trace detection products are designed to detect the deadly threat from explosive substances can also be used to help stem the international flow of illegal drugs. These include hand-held and table top equipment to analyze trace particles on baggage or clothing and a walk-through portal to screen people.

#### **500DT –**

#### **Simultaneous Explosives and Narcotics Trace Detector**

Table top system for simultaneous detection of explosives and narcotics on baggage.



#### **Feature Highlights**

- Simultaneous detection of explosives and narcotics
- Over 40 substances detected and identified in 8 seconds
- Large touch-screen color display
- Internal data storage

The 500DT fills the growing need of security professionals to have the ability to detect a wide range of substances and to be able to adapt as threats and their needs change. By incorporating two IMS detectors in a single unit, the 500DT is capable of detecting and identifying explosives and narcotics



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during a single analysis, giving you the ability to detect a broader range of substances while maintaining the high sensitivity and specificity you expect from Universal Defense.

The IMS detectors in the 500DT are the same as in the 400B, of which over 6000 are in use by aviation security, government and law enforcement agencies, the military and by private security companies.

This dual detector system is ideal for any security application. Aviation security personnel and the military will benefit from the capability to detect a much broader range of explosive substances. Customs, coast guard and border crossing agencies that require the ability to detect both narcotics and explosives from a single sample will be able to execute their duties utilizing one instrument. Facility security professionals will be aided in better protecting access points to commercial buildings, courthouses and correctional facilities, with the ability to detect multiple threats with one instrument.

### **Sample Collection System**

An advanced sampling wand eliminates the need for the operator to handle the sample swab after every sample. This increases the quality of the sample collected and analyzed.

### **Simplified Maintenance**

The IONSCAN 500DT includes a regenerative Air Purification System (APS), which reduces maintenance and cost of ownership. In addition, most operator replaceable parts do not require the use of tools in the field.

### **Software**

The IONSCAN 500DT utilizes specially developed proprietary software. The operator navigates through the software using the large, color touch-screen display. The large size and color-coded interface of the display makes it easy to view results and operate the IONSCAN 500DT.

With the increased internal memory, more analysis results can be stored. These results can be printed with the built-in printer and exported via the USB port. The software also allows advanced operators the capacity to further review and analyze results.

### **Specifications**

Technology	Dual Ion Mobility Spectrometry (IMS) technology
Operating Modes	Explosives/Narcotics simultaneous, Explosives only, Narcotics only
Explosives Detected	RDX, PETN, NG, TNT, HMX, TATP and others
Narcotics Detected	Cocaine, Heroin, Amphetamine, Methamphetamine, MDA, THC and others
Sensitivity	Explosives: picogram range Narcotics: sub-nanogram range
Analysis Time	8 seconds
Warm-up Time	30 minutes



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Input Voltage	95-265VAC, 50-60 Hz 600W cold, 300W warm
Power	110/220V
Weight	43 lbs. (95 kg)
Dimensions (L x H x D)	16" x 12.5" x 16" (40 x 31 x 40 cm) with screen down 16" x 22.5" x 16" (40 x 57 x 40 cm) with screen up
Display	10.4", color TFT touch screen display
Printer	Built-in, 4" impact
Operating Temperature Range	32°F to 104°F (0°C to 40°C), less than 95% humidity, non-condensing

### **400B**

#### **DESKTOP EXPLOSIVES OR NARCOTICS TRACE DETECTOR**



#### **Feature Highlights**

- Detect and identify over 40 explosive or narcotic substances
- Tested, field-proven instrument
- Used daily by Military, AVSEC, Customs, Corrections and at high-profile facilities
- Simple operation, easy to maintain

#### **Sample Collection**

Proper sample collection is key to the success of any trace detector. The swab sampler provided with every **400B** the most effective sample collector available. The design allows sufficient force to be applied in sample collection without tiring the operator.



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The long arm of the swab sampler allows the sample to be collected without risk of hand injury to the operator from hidden sharp objects.

### Specifications

Technology	Ion Mobility Spectrometry (IMS)
Explosives Detected	RDX, PETN, TNT, Semtex, Tetryl, NG, Nitrates, HMX and others
Narcotics Detected	Cocaine, Heroin, PCP, THC, Methamphetamine, Ecstasy, LSD and others
Analysis Time	6-8 seconds
Ready Time	Less than 20 minutes
Weight	47 lbs. (22 kg)
Dimensions	15.5 x 13.5 x 13" (40 x 34 x 32 cm)

### *Document Scanner*



### Feature Highlights

- Non-intrusive
- Fast 6-8 second analysis
- Simple sample collection
- Highly sensitive

This Document Scanner offers you another way to detect and identify traces of over 40 different explosive or narcotic substances in a quick 8 second analysis.

Samples can be collected by simply swiping passports and other travel documents over the sample disc



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or by using the optional swab sampler. With a flip of a switch, the sample disc arm is automatically brought into the detector for analysis.

The color-coded display presents instrument status information and results to the operator in an easy-to-understand fashion. If detection is made, the specific explosive or narcotic is identified on the display.

A detection of explosives means that trace amounts of a particular explosive have been found on the item sampled. It indicates that an explosive device may be present or that the person may have been handling explosive material in preparing a bomb and further investigation is necessary

### Specifications

Technology	Ion Mobility Spectrometry (IMS)
Explosives Detected	RDX, PETN, TNT, Semtex, NG, Nitrates, HMX, TATP and others
Narcotics Detected	Cocaine, Heroin, THC (Cannabis), Methamphetamine, PCP, LSD, Ecstasy and others
Analysis Time	6-8 seconds
Ready Time	Less than 20 minutes
Dimensions	15.5" x 13.5" x 13" (40 x 34 x 32 cm)
Weight	53 lbs. (24 kg)
Operation Temperature Range	32°F to 104°F (0°C to 40°C), less than 95% humidity, non-condensing

### **SABRE 455**

**HAND-HELD TRACE DETECTOR FOR EXPLOSIVES, CHEMICAL AGENTS, TOXIC INDUSTRIAL CHEMICALS OR NARCOTICS**





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### Feature Highlights

- Lightest trace detector available
- Analyze either particle or vapor samples
- Weighs 7 lbs. with the standard 4-hour battery
- 3.5" color TFT display

For those who work tirelessly to protect the public, everyday presents a new challenge. What will you are faced with today? Strange doors? Suspicious packages? Drugs?

You need to have an instrument by your side that can detect the widest range of substances. The SABRE 455 the only portable trace detector that can detect threats from explosives, chemical warfare agents, toxic industrial chemicals or narcotics, and can do so in approximately 20 seconds. With a cold time start of 10 minutes and weighing approximately 7 lbs. including the 4-hour battery, the SABRE 4000 is a small, powerful ally in the war on terror and drug trafficking.

With the added TIC detection capability, new features such as the 3.5" color TFT display and standard 4-hour battery, the SABRE 455 is still the smallest, lightest hand-held trace detector available. It is also the only one that can detect and identify all the threats you face.

### Trace Detection

a detection using the SABRE 455 means that traces of a target substance have been found on the item sampled. This in turn means that the item or its handler has been in contact with the identified substance and appropriate actions need to be taken.

### Specifications

Technology	Ion Mobility Spectrometry (IMS)
Explosives Detected	RDX, PETN, TNT, Semtex, TATP, NG, Ammonium Nitrate and others
Narcotics Detected	Cocaine, Heroin, THC, Methamphetamine and others
Chemical Warfare Agents Detected	Nerve and blister agents such as Tabun, Sarin, Soman, Cyclosarin, Agent VX and V <sub>x</sub> , Nitrogen Mustard 3 and others
Toxic Industrial Chemicals Detected	Hydrogen Cyanide (HCN), Phosgene, SO <sub>2</sub> , NH <sub>3</sub> and others
Display	3.5" TFT color display
Ready Time	Under 10 minutes from cold start
Analysis Time	Detection in 10 seconds, complete analysis in 20 seconds
Dimensions	14.5" x 4" x 4.5" (36,3 x 11 x 13 cm)
Weight	7 lbs. (3,2 kg) with the 4-hour battery





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Operating Temperature Range 32°F to 113°F (0°C to +45°C), less than 95% relative humidity, non-condensing

### ***SENTINEL II***

### **NON-CONTACT, WALK-THROUGH PORTAL FOR EXPLOSIVES OR NARCOTICS DETECTION**



#### **Feature Highlights**

- True head-to-toe screening of people
- High throughput – screen 6 people per minute
- Fully automated
- Operator touch-screen color display

The challenge of detecting threats being carried by a person onto public transportation systems and into public and private buildings is one that is made easier with the SENTINEL II from Universal defense. Only the SENTINEL II walk-through portal offers true head-to-toe, non-contact screening of people for trace explosive or narcotic substances.

Designed specifically for this challenge and to reduce the need for time-consuming physical searches, the SENTINEL II uses gentle puffs of air to dislodge particles trapped on hair, the body, clothing and shoes. Aided by gravity and a downward airflow, these particles are then directed into the SENTINEL II for analysis. Trace amounts of more than 40 different explosives or drugs are detected and identified in seconds.

#### **Applications**

The SENTINEL II answers the need for screening people for trace explosives or narcotics. With its high throughput, the SENTINEL II is ideal for applications where large numbers of people need to be screened for threats quickly, such as at airports, customs, military bases, correctional facilities, at high profile facilities and public events. Past security incidents, evidenced by the “shoe bomber”, show the lengths that terrorists will go when attempting to carry out their plans. Only the SENTINEL II from Universal Defense dislodges particles from head-to-toe for sampling. By increasing the area from where samples are taken, the SENTINEL II is better equipped to help you determine whether



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explosives or narcotics may be concealed on a person, or when traces of these substances may remain on someone after handling explosives or narcotic material.

### Specifications

Technology	Ion Mobility Spectrometry (IMS)
Explosives Detected	RDX, PETN, TNT, Semtex, NG and others
Narcotics Detected	Cocaine, Heroin, PCP, THC, Methamphetamine, Ecstasy and others
Dimensions (W x L x H)	74" x 55" x 90" (188 x 140 x 229 cm)
Weight	Approximately 1900 lbs. (860 kg)
Power	208/220 VAC, 50Hz or 60Hz 30A max. (explosives), 40A max. (narcotics/dual)
Accessories Included	Digital camera Color printer

### Car Bomb Finder

It detects bomb in closed car trunk or bomb concealed in car floor in 11\* second and estimates its weight non-invasively, in real time, automatically, and without human intervention. Decodes Quantitative Empirical Chemical Formulas of any selected substance in 30 second. Decision time varies depending on distance and explosive mass.



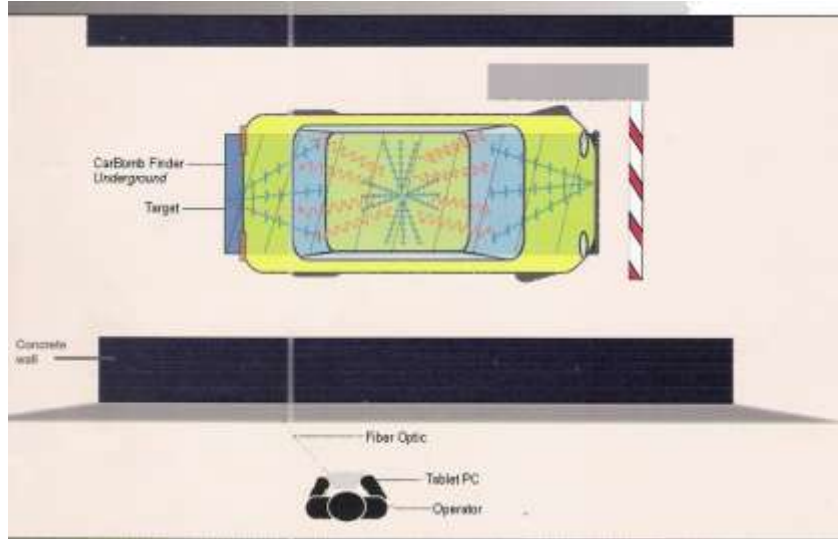


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The system is remotely operated through a fiber optic link or wireless network



**CarBomb Finder  
inspects Car from  
the ground.**  
*Top View*



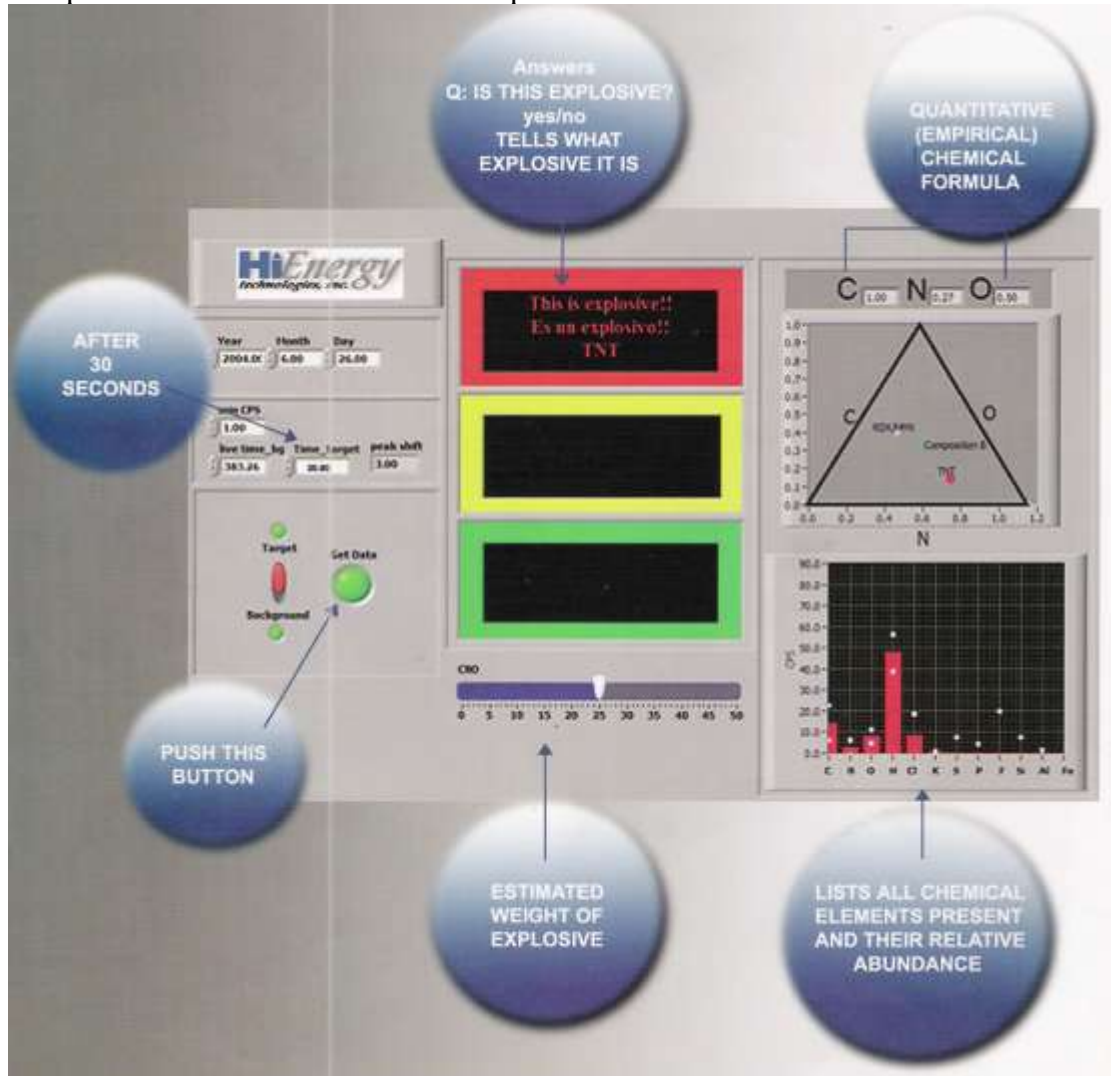
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What the operator sees on the screen when explosive is



found.



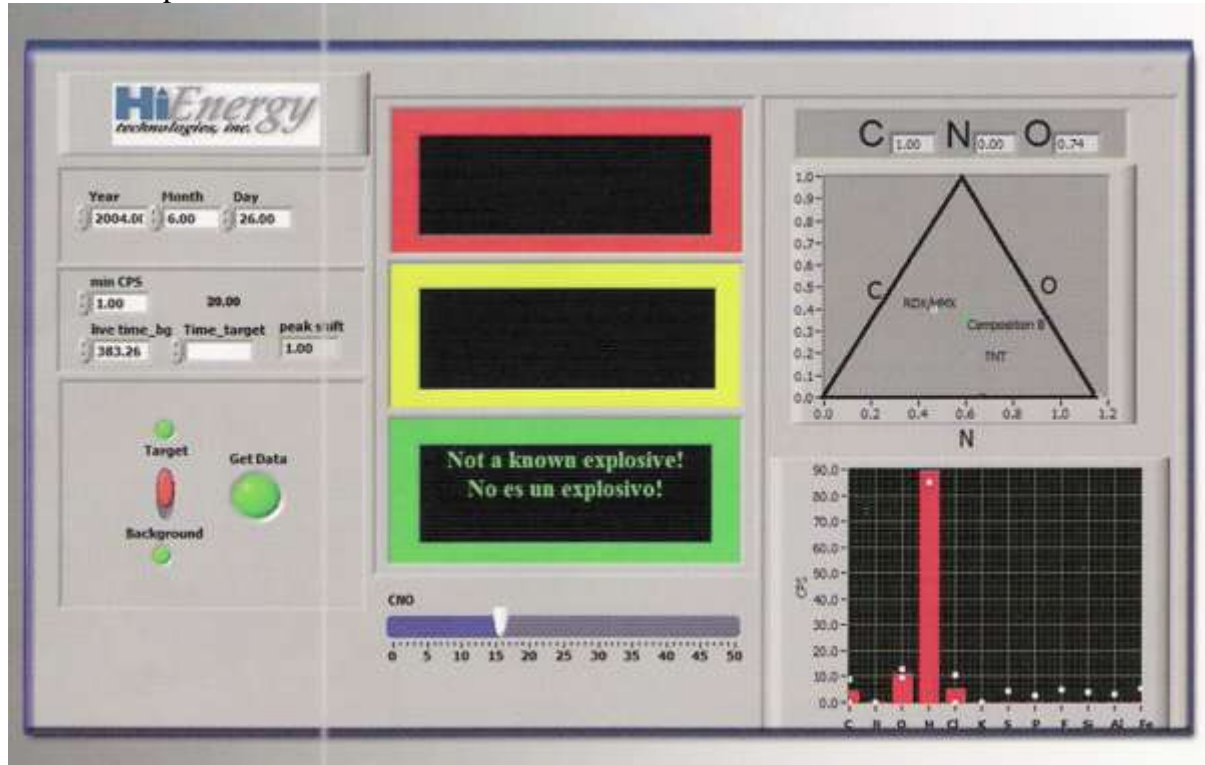
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When no explosive is found





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When it's uncertain

