# EMIS *SERIES*

## AUTOMATIC SCREENING DEVICES
## FOR NON-METALLIC CARGO

- Fully automatic detection of detonators and metal components of explosive devices

- Low-intensity electromagnetic field: uses no ionizing radiation

- Available in different sizes for inspection of single packages or entire pallets

- No dedicated operator needed

- Complete data logging and traceability

- No periodic maintenance or calibration required

**IDEAL FOR INSPECTION OF**

- *Flowers and perishable goods*
- *Paper products*
- *Textiles and Clothing*
- *Plastic and wooden products*

**EMIS 130160**
*for palletized cargo*



## CEIA®

ISO 9001 CERTIFIED

*Threat Detection through Electromagnetics*

*The **CEIA EMIS** (**Electro-Magnetic Inspection Scanner**) equipment are security screening devices designed to inspect non-metallic cargo. Using **CEIA exclusive Electromagnetic Profile Analysis technology**, these devices ensure automatic detection of detonators and electronic circuits from IEDs (Improvised Explosive Devices), ammunition and weapons composed of metal (knives, firearms). In case of detection, the scanners give an audible and visual alarm.*

## FULLY AUTOMATIC DETECTION

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.

## DIFFERENT SIZES FOR INSPECTION OF SINGLE PACKAGES OR ENTIRE PALLETS

- **EMIS 8075** for screening of packages.
- **EMIS 130160** - **EMIS 130200** for palletized cargo.
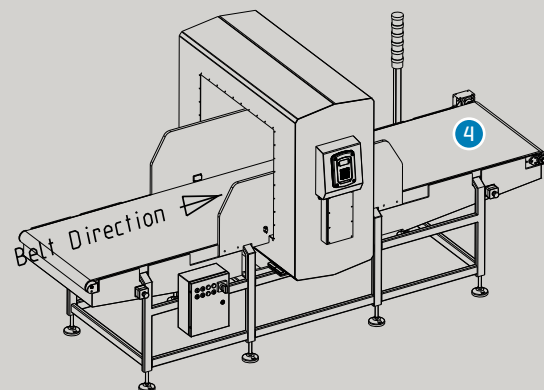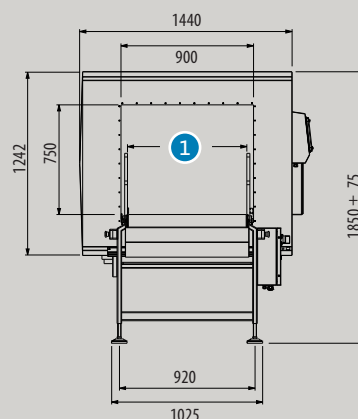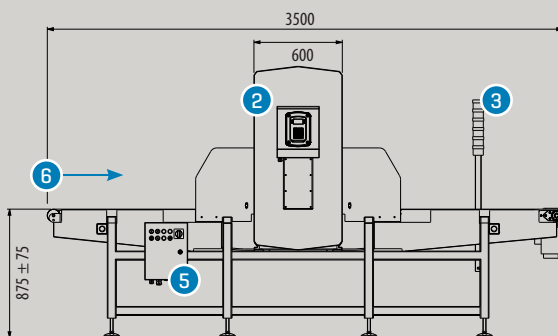- **All models** can be used as a stand alone or in-line inspection device.

**EMIS 8075** *for package inspection*

## OVERALL DIMENSIONS (mm)

**EMIS® 8075**

① TUNNEL USEFUL AREA: ▸ 800 mm x 750 mm
② PROGRAMMING PANEL
③ OPTICAL AND ACOUSTIC ALARM
④ CONVEYOR BELT
⑤ MOTOR CONTROL UNIT
⑥ ENTRANCE

**w w w . c e i a . n e t**   CEIA reserves the right to make changes, at any moment and without notice, to the models, their accessories and options, to the prices and conditions of sale

*EMIS models 130160 and 130200 are the first available automatic e.m. scanners* for inspection of entire pallets of non-metallic cargo. Moreover, the CEIA EMIS Series are the first e.m. scanners that have been **qualified according to the TSA Air Cargo Screening Program**.

*They are also the first devices that have been tested under the ECAC Common Evaluation Process Framework and* **meet the ECAC performance standard** *for Metal Detection Equipment [MDE].*

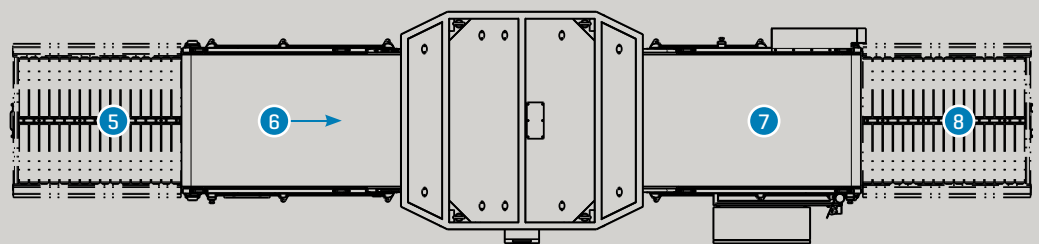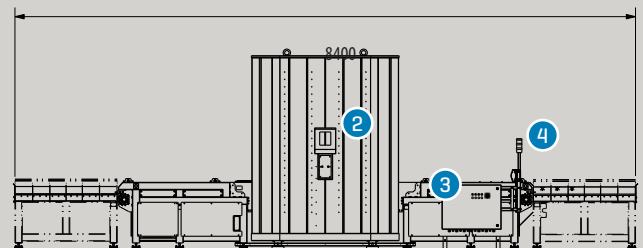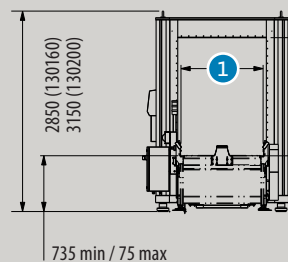## EFFICIENCY AND LOW COST OF OWNERSHIP

The EMIS offers the ability to automatically screen complete pallets, helping to avoid the need for breakdown and ensuring the highest throughputs are maintained when compared to other approved technologies. The automatic electromagnetic analysis offers a superior level of detection performance guaranteeing the safety of all shipments.

The automated screening process does not require the use of an operator for image interpretation and no regular staff rotation periods for constant operation. Peak periods can be helped by the increased throughput EMIS offers, combined with the ability to redeploy staff normally associated with image interpretation to areas where they are most needed.

The solidstate construction requires no periodic maintenance or calibration ensuring a substantial reduction in the life-cycle costs of the equipment.

**EMIS-130160 and 130200** *for palletized cargo*

### EMIS® 130160 - 130200

1. TUNNEL USEFUL AREA
   ‣ 1300 mm x 1700 mm [130160 model]
   ‣ 1300 mm x 2000 mm [130200 model]
2. PROGRAMMING PANEL
3. POWER SUPPLY AND MOTOR CONTROL UNIT
4. OPTICAL AND ACOUSTIC ALARM
5. ENTRY ROLLER CONVEYOR
6. ENTRY CONVEYOR STRUCTURE
7. EXIT CONVEYOR STRUCTURE
8. EXIT ROLLER CONVEYOR

2850 (130160)
3150 (130200)

735 min / 75 max

8400

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# **EMIS** SPECIFICATIONS

| DETECTION FUNCTIONS | Analysis of containers of perishable goods and paper without metal content | |
|---|---|---|
| | CEIA electromagnetic-profile analysis technology | |
| | 0.5 ppm by weight Detection Sensitivity at maximum load (130160, 130200 models) | |
| | Tunnel useful area | **8075** model: 800 mm x 750 mm | **130160** model: 1300 mm x 1700 mm |
| | | | **130200** model: 1300 mm x 2000 mm |
| | Height of the conveyor belt | **8075** model: 875 mm ± 75 mm adjustable | |
| | | **130160** - **130200** models: 735 mm min / 755 mm max | |
| | Maximum transport weight | **8075** model: 135 ÷ 275 kg total (depending on the speed) | |
| | | **130160** - **130200** models: 1500 Kg | |
| | Maximum pallets height | **130160** model: 1650 mm - **130200** model: 1950 mm | |
| | Speed range | 20 to 50 m/min (**8075** model) | |
| | Inspection time | Less than 1 min (**130160** - **130200** models) | |
| | Inspection capacity | Adjustable, up to 3,000 packs per hour (**8075** model) | |
| | | Up to 60 pallets per hour with automatic loading/unloading pallet system (**130160** - **130200** models) | |
| STRUCTURE | Material | AISI 316L Stainless Steel | |
| | Protection degree | IP65 | |
| | Weight | **8075** model: 700 kg | **130160** model: 5000 kg |
| | | | **130200** model: 5150 kg |
| POWER SUPPLY | Supply voltage | 200-240 V, 50-60 Hz | |
| | Maximum current | 11.4 A (**8075** model) - 20 A (**130160** - **130200** models) | |
| PROGRAMMING AND COMMUNICATIONS | Modern, rugged and user friendly interface | |
| | Easy to read, high-contrast (3000:1) graphic display | |
| | Rugged, anti-vandalic stainless steel keyboard | |
| | Programming access protected by multiple password levels | |
| | Selection of the operative program | |
| | Programming type | Local, through the built-in keyboard |
| | Memory | 125 programs, 100000 storable events |
| | USB Storage device connection | |
| ALARM FUNCTIONS | Automatic slowing and stopping of the conveyor | |
| | Manual alarm reset and consequent restarting of the conveyor | |
| | Visible and audible alarms | |
| CONTROL INPUTS | Connection of: | following conveyor authorization, emergency button |
| | Serial interface RS232 | Built-in |
| | Bluetooth connection | Built-in (deactivable) |
| | USB Interface | Built-in |
| | Ethernet interface | Built-in 10 - 100 Base-T |
| | Video Camera | Built-in IP camera (**130160** - **130200** models) |
| OUTPUTS | 5 programmable relays (30Vca – 2.5A) for the activation of external devices | Alarm relay |
| | | Ready relay |
| | | Ejector relay |
| | | Preceding conveyor relay |
| | | Item clear relay |

## *ENVIRONMENTAL DATA*

- Operating temperature: -10°C to +50°C
- Storage temperature: -25°C to +70°C
- Relative humidity: 0 to 95% (without condensation)

## *CONFORMITY*

- Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC Regulations
- Complies with Regulations relating to pacemakers, defibrillators or other vital support systems, pregnant women and magnetic storage media (floppy disks, audio cassettes, video cassettes and similar)

## *APPLICABLE COMMODITY GROUPS*

- Grains and animal feed, produce, perishables, bakery goods, dry goods
- Seafood and Meat
- Textiles and Clothing (without metallic accessories)
- Paper products, plastic, rubber
- Printed Material
- Flowers and herbs

## *FOR THE FOLLOWING CCSF*

- Shipping facilities
- Freight Forwarding Facilities
- Third Party Logistics Providers
- Manufacturing Facilities
- Warehouses
- Distribution Centers
- Growers of produce