



Certified
by Civil Aviation
Authorities

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

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

EMIS 130160
for palletized cargo



www.ceia.net/security/emis

Threat Detection through Electromagnetics

CEIA 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

45+
years of
experience
experience
experience

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.

EMIS-130160 AND 130200 FOR PALLETIZED CARGO



EMIS 8075 FOR PACKAGE INSPECTION



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

Different sizes for inspection of single packages or entire pallets

- The **EMIS 6047 - EMIS 8075** are intended for screening of packages.
- The models **EMIS 110160 - EMIS 130160 - EMIS 130200** can analyze palletized cargo.
- **All models** can be used as a stand alone or in-line inspection device.

EMIS 6047 SCREENING PACKAGES BEFORE SHIPPING



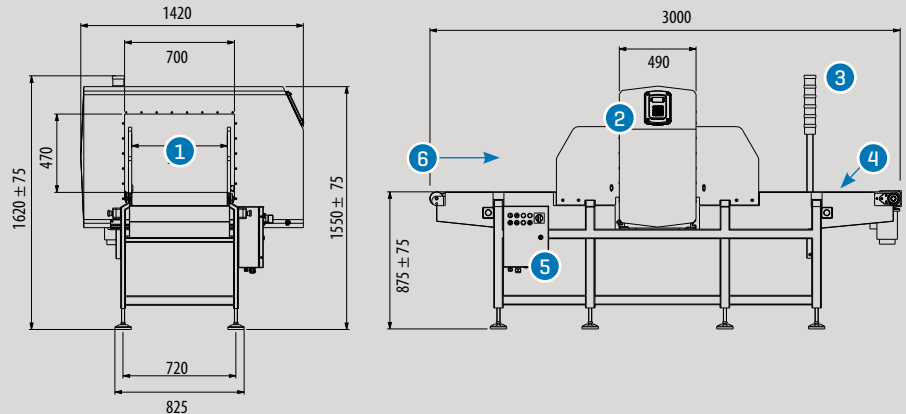
The **CEIA EMIS** is an electromagnetic inspection scanner designed to automatically detect metal components inside paper, newspaper, perishable goods and organic material in general.

EMIS models 110160, 130160 and 130200 are the first available automatic e.m. scanners for inspection of entire pallets of non-metallic cargo.

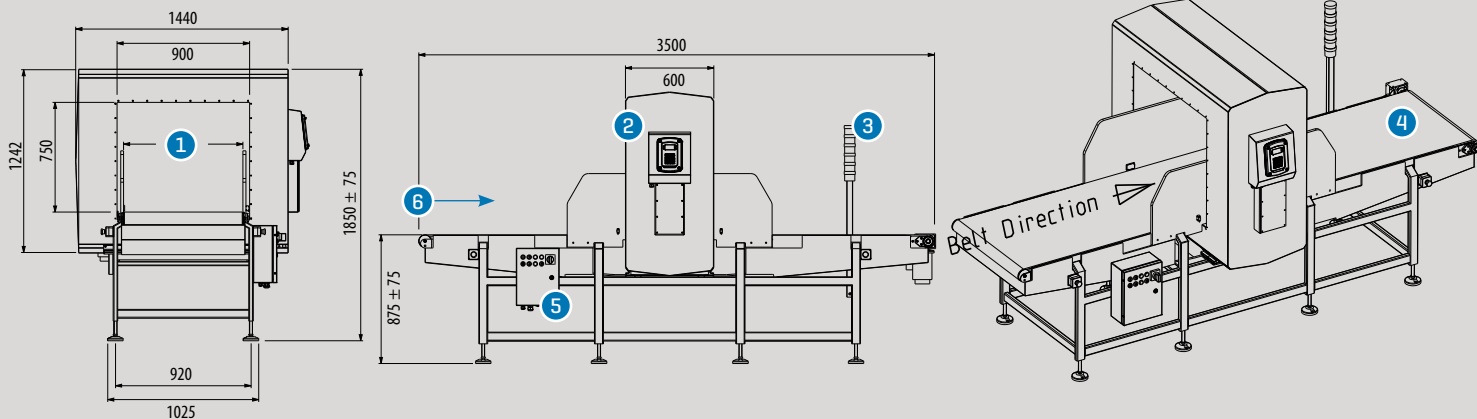
Overall dimensions [mm]

EMIS® 6047

- 1 TUNNEL USEFUL AREA:
 - 600 mm x 470 mm [6047 model]
 - 800 mm x 750 mm [8075 model]
- 2 PROGRAMMING PANEL
- 3 OPTICAL AND ACOUSTIC ALARM
- 4 CONVEYOR BELT
- 5 MOTOR CONTROL UNIT
- 6 ENTRANCE



EMIS® 8075

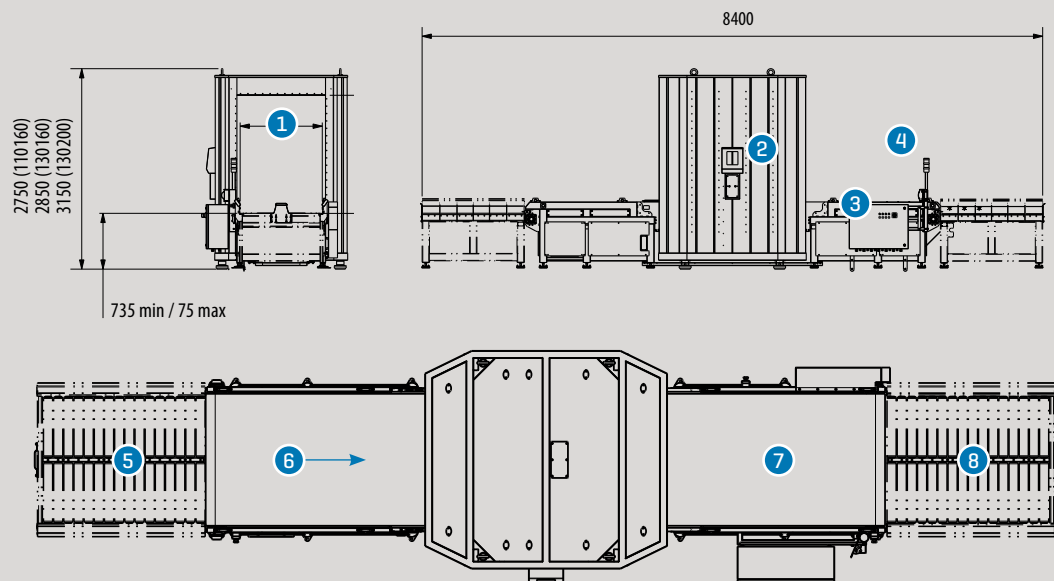


EMIS® 110160

EMIS® 130160

EMIS® 130200

- 1 TUNNEL USEFUL AREA:
 - 1100 mm x 1600 mm [110160 model]
 - 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





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 (110160, 130160, 130200 models)		
	Tunnel useful area	6047 model: 600 mm x 470 mm	110160 model: 1100 mm x 1600 mm
		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	6047 - 8075 models: 875 mm \pm 75 mm adjustable	
		110160 - 130160 - 130200 models: 735 mm min / 755 mm max	
	Maximum transport weight	6047 - 8075 models: 135 \div 275 kg total (depending on the speed)	
		110160 - 130160 - 130200 models: 1500 Kg	
Maximum pallets height	110160 model: 1550 mm - 130160 model: 1650 mm - 130200 model: 1950 mm		
Speed range	20 to 50 m/min (6047 - 8075 models)		
Inspection time	Less than 1 min (110160 - 130160 - 130200 models)		
Inspection capacity	Adjustable, up to 3,000 packs per hour (6047 - 8075 models)		
	Up to 60 pallets per hour with automatic loading/unloading pallet system (110160 - 130160 - 130200 models)		
STRUCTURE	Material	AISI 316L Stainless Steel	
	Protection degree	IP65	
	Weight	6047 model: 500 kg	110160 model: 4000 Kg
		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 (6047 - 8075 models) - 20 A (110160 - 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 (110160 - 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



Zona Industriale 54/G, 52041 Vicinaggio - Arezzo (ITALY)

Tel.: +39 0575 4181 • Fax: +39 0575 418298 • E-mail: infosecurity@ceia-spa.com

www.ceia.net

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