

Thermo Scientific EGIS III, based on our proprietary EGIS technology, has become the standard in Europe and in high-security-risk countries. Offering the highest performance available, the EGIS systems detect plastic, commercial, and military explosives, as well as ICAO marker compounds—without using a radioactive source.

Thermo Scientific EGIS III

Portable, benchtop explosive trace detection systems



Key Features and Benefits

- Identification of explosive classes
- High sensitivity and very low false alarm rate
- High passenger throughput
- Simultaneous vapor/particle collection
- Detects ICAO taggants
- Go/No-Go alarms
- Highly specific detection through high-speed gas chromatography
- Easy maintenance and operator friendly
- Internal printer and data storage
- No radioactive source

Applications

- Aviation screening of persons and cargo
- Package and cargo handling facilities
- Secure area screening, military bases, embassies and border crossings
- Critical infrastructure such as nuclear power plants, mass transit stations and high-rises
- Private security
- Mobile incident control investigations



The Thermo Scientific EGIS III Explosives Trace Detection (ETD) system combines forensic laboratory instrument performance with operationally-tested reliability and application knowledge to assure the success of security missions around the world.

The sensitivity advantage of the EGIS III allows for detection of low vapor pressure explosive compounds, such as plastics (RDX, PETN, C4, Demex, and SEMTEX), with an air sampler - providing an even greater probability of detection. Due to the EGIS III's commanding sensitivity advantage, it is the only ETD that is certified by the Police Scientific Development Branch (PSDB) in the UK, approved by the European Civil Aviation Conference (ECAC), and the sole-source provider to the German government for

aviation security.

Every day, over 50 airports around the world depend on the EGIS to provide maximum security. Because of the reliability record, EGIS systems are installed at smaller, remote airports where maximum uptime is the main concern. EGIS systems are designed to be repaired in the field if something happens, instead of returning the system back to the manufacturer.

Major customers include: FBI, ATF, and Royal Canadian Mounted Police forensic laboratories; German government aviation security agencies; and the British Military for deployment in Northern Ireland, supporting the anti-terrorism mission.

Options & Specifications

EGIS III

Specifications

Technology:	High speed gas chromatography (HSGC)
Detector:	Chemiluminescence
Explosives Detected:	EGDN, NG, DNT, TNT, PETN, RDX, and ICAO marker compounds (DNMB, O-MNT, P-MNT)
False Alarm Rate:	Below 0.2% for typical luggage screening
Lower Detectable Limits:	100 pg
Analysis Cycle:	15-18 seconds
Sampling Method:	Collection of explosive particles by wiping
Sample Inlet:	Direct desorb inlet for sample wipes
Carrier Gas:	Helium or hydrogen
Display:	LCD
Alarm Display:	Audible, LCD and LED
Operational Temperature Range:	0°C to +40°C (+32°F to +104°F); -20°C (-4°F) Low Range available
Storage Temperature Range:	-20°C to +50°C (+14°F to +122°F)
Operational Humidity Range:	5% to 95% non-condensing
Dimensions:	47.0 cm (18.5 in) H x 73.7 cm (29.0 in) D x 72.4 cm (28.5 in) W
Weight:	75 kg (165 lbs)
Optional Configuration:	Model 400 sampler with disposable sample wipes for direct air and vacuum sampling

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Europe, Africa, Middle East & Countries Not Listed

Frauenauracher Strasse 96 +49 (0) 9131 998-226
D 91056 Erlangen, Germany +49 (0) 9131 998-172 fax
customerservice.eid.erlangen@thermofisher.com

China

7th Floor, Tower West, Yonghe Plaza +86 10 8419
No. 28 Andingem E. Street, Beijing, 100007 China +86 10 8419 3581 fax
info.eid.china@thermofisher.com

Singapore

11 Biopolis Way, Helios, Units #12-07/08 +65 6478 9728
Singapore 138667 +65 6478 9505 fax
info.eid.singapore@thermofisher.com

United Kingdom

Bath Road, Beenham, +44 (0) 118 971 5042
Reading RG7 5PR United Kingdom +44 (0) 118 971 2835 fax
customerservice.eid.beenham@thermofisher.com

USA, Canada, Mexico, Central & South America

27 Forge Parkway +1 (508) 553 1700
Franklin, MA 02038 USA +1 (800) 274 4212 US toll-free
info.eid@thermofisher.com +1 (508) 520 2815 fax

India

3588 Plot No. C-327, T.T.C. Industrial Area, Pawne +91-22-41578800
Navi Mumbai 400 705, India +91-22-41578801 fax
info.eid.india@thermofisher.com

www.thermoscientific.com/EGIS

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