THREAT DETECTION
PRODUCTS

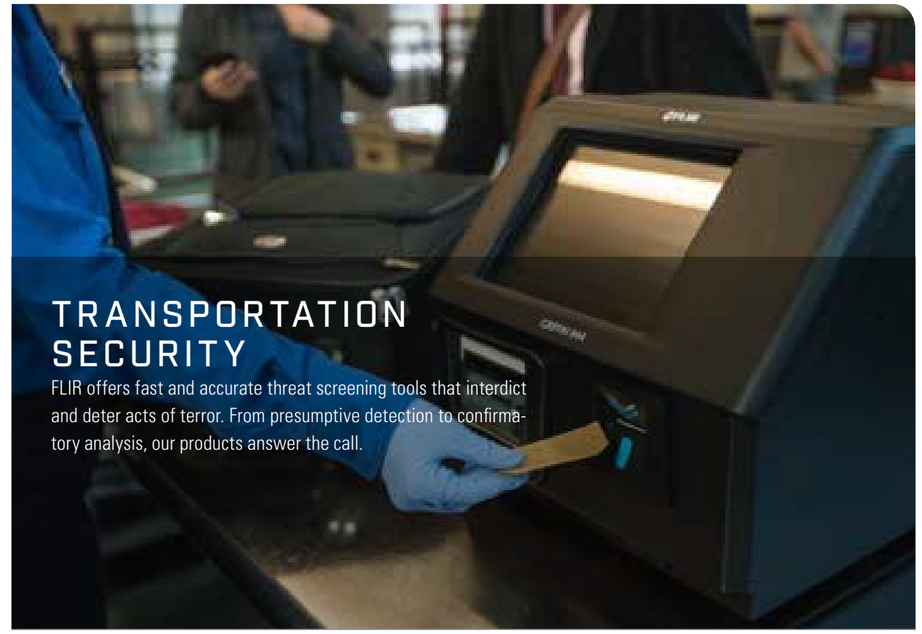
FLIR® | The World's Sixth Sense™

MADE FOR THE MISSION

The complete threat detection toolkit for Military, Transportation and Aviation Security, Critical Infrastructure, Corrections, Ports and Borders, Law Enforcement, and Emergency Responders.

FLIR is a leader in the detection, classification, identification, and analysis of a vast spectrum of Chemical, Biological, Radiological, Nuclear, Explosive (CBRNE), and drug threats. Our platform of multi-use products provides cost-effective, high-performance solutions for defense, counterterrorism, homeland security, law enforcement, public safety, health, environmental, and commercial organizations around the globe.

FROM THE FRONT LINES TO THE BACK OFFICE

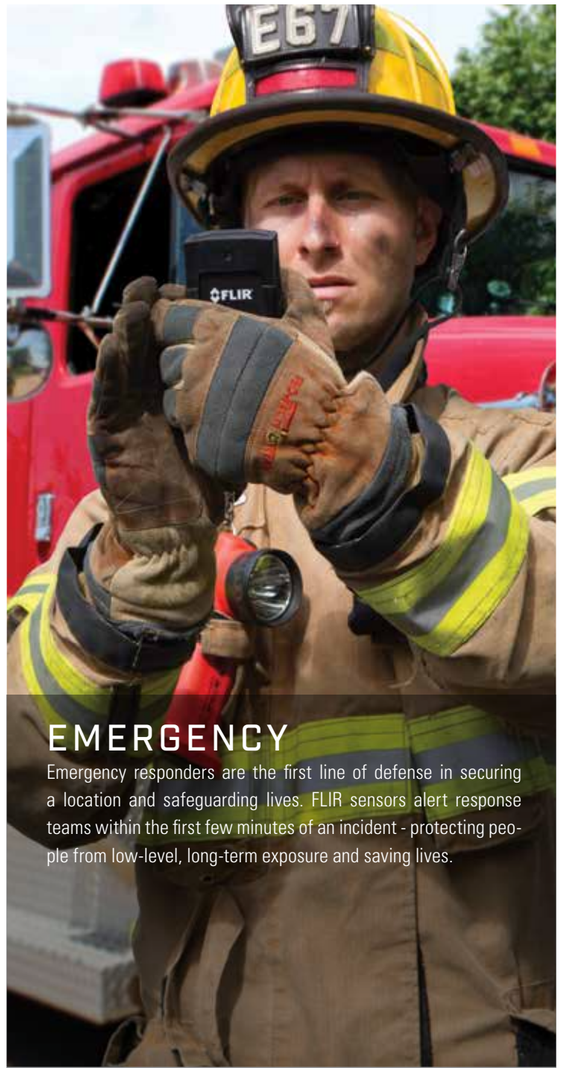


TRANSPORTATION SECURITY

FLIR offers fast and accurate threat screening tools that interdict and deter acts of terror. From presumptive detection to confirmatory analysis, our products answer the call.

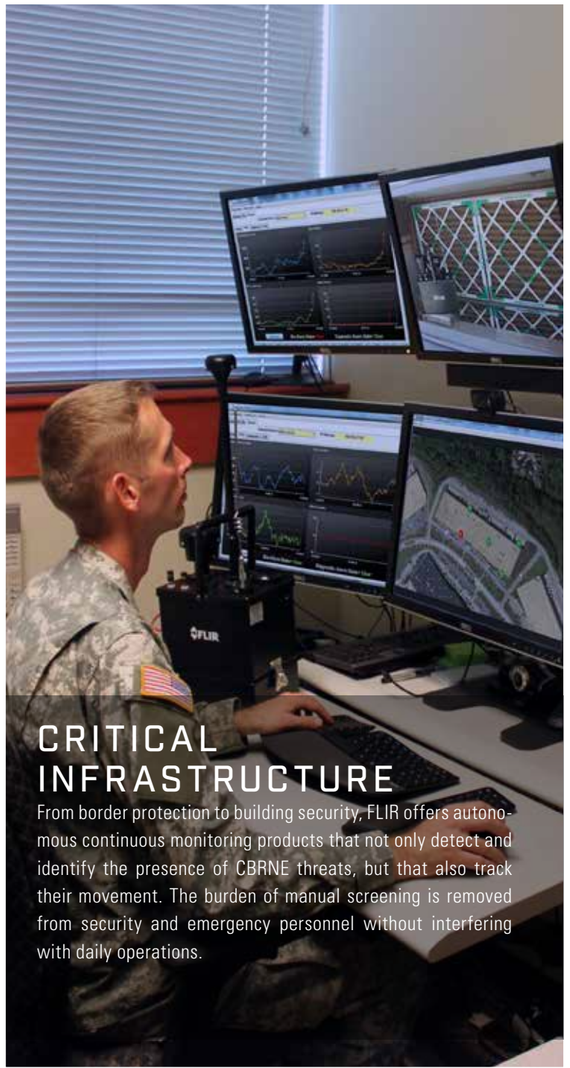
MILITARY

For nearly 20 years, FLIR has equipped military users with the smallest and most dependable handheld detection products available. From the front lines to the command center, our products give military personnel the confidence they need to take action.



EMERGENCY

Emergency responders are the first line of defense in securing a location and safeguarding lives. FLIR sensors alert response teams within the first few minutes of an incident - protecting people from low-level, long-term exposure and saving lives.



CRITICAL INFRASTRUCTURE

From border protection to building security, FLIR offers autonomous continuous monitoring products that not only detect and identify the presence of CBRNE threats, but that also track their movement. The burden of manual screening is removed from security and emergency personnel without interfering with daily operations.

SAMPLING & PRESUMPTIVE SCREENING

The Fido® family of products detects and classifies trace amounts of dangerous threats found on surfaces and in the air. These sensors are the first line of defense in securing a scene and safeguarding lives. As new threats emerge, you need products that can evolve with them, that are easy to use, and that provide accurate results. FLIR has the answer.

CHEMICAL DETECTION

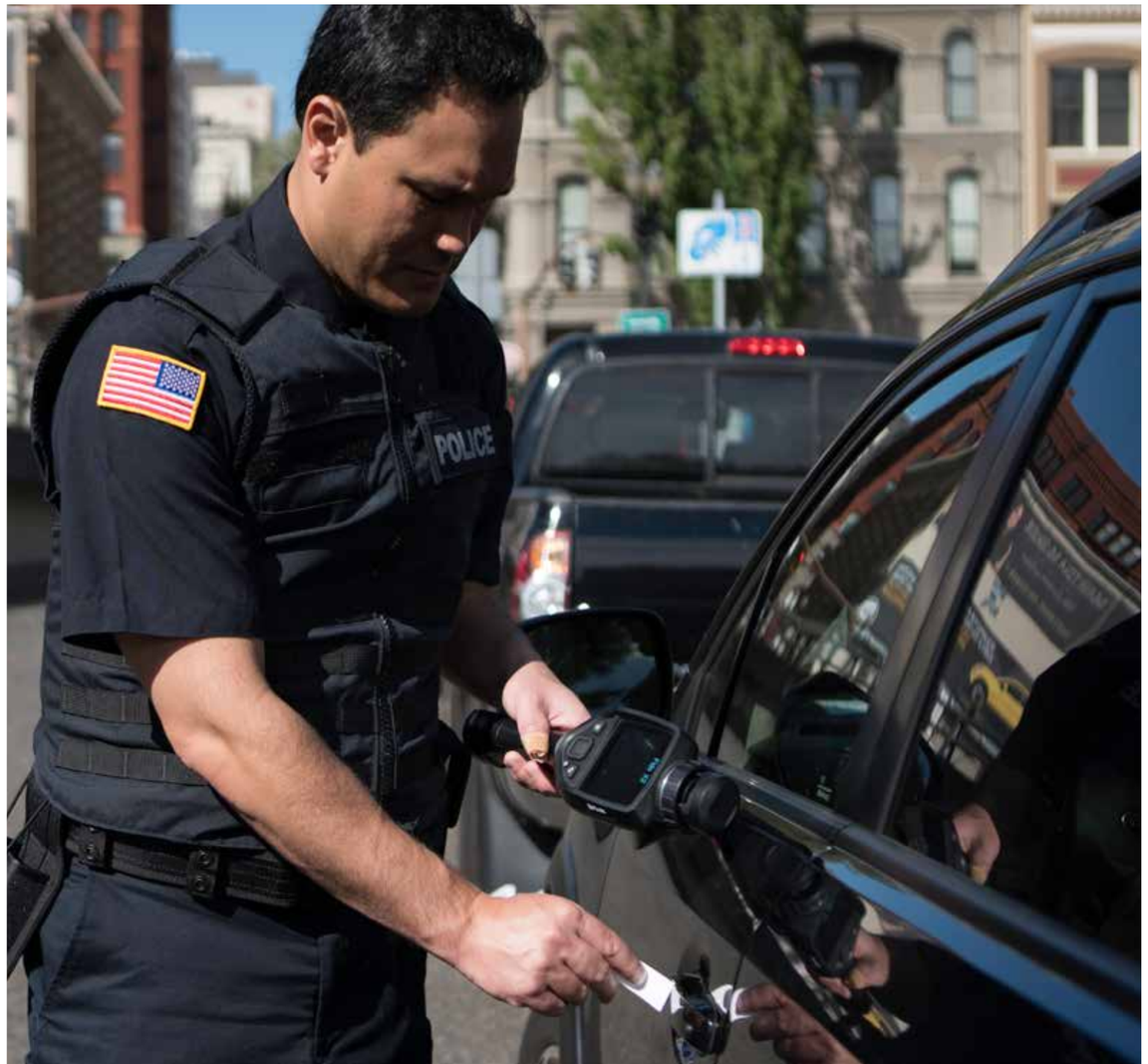
Fido C products detect trace levels of chemical hazards (i.e. Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs), etc.) at levels far below what would affect the human body. Known for their accuracy and reliability, Fido C sensors yield very low false alarm rates, giving you confident results.

BIOLOGICAL DETECTION

In wide service throughout the world, Fido B products are used to collect and detect all four classes of biological threat agents (airborne spore, viral, cellular, and protein toxins) at concentrations at or below industry goals. The results are simple, fast, and accurate – you can rely on these products during a biological attack.

EXPLOSIVES DETECTION

Specifically designed for checkpoint and transportation security, today thousands of Fido X Series detectors are in service with the military, law enforcement, and at airports around the world. Accurate, easy to use, and field proven – this is explosive detection you can count on.



FIDO B1

The most widely deployed handheld air sampler for biological sampling preparedness. Fido B1 collects typical agents released in a bio-threat attack including bacterial spores such as anthrax, bacteria, viruses such as smallpox, and toxins such as ricin.

HANDHELD BIO-THREAT COLLECTION

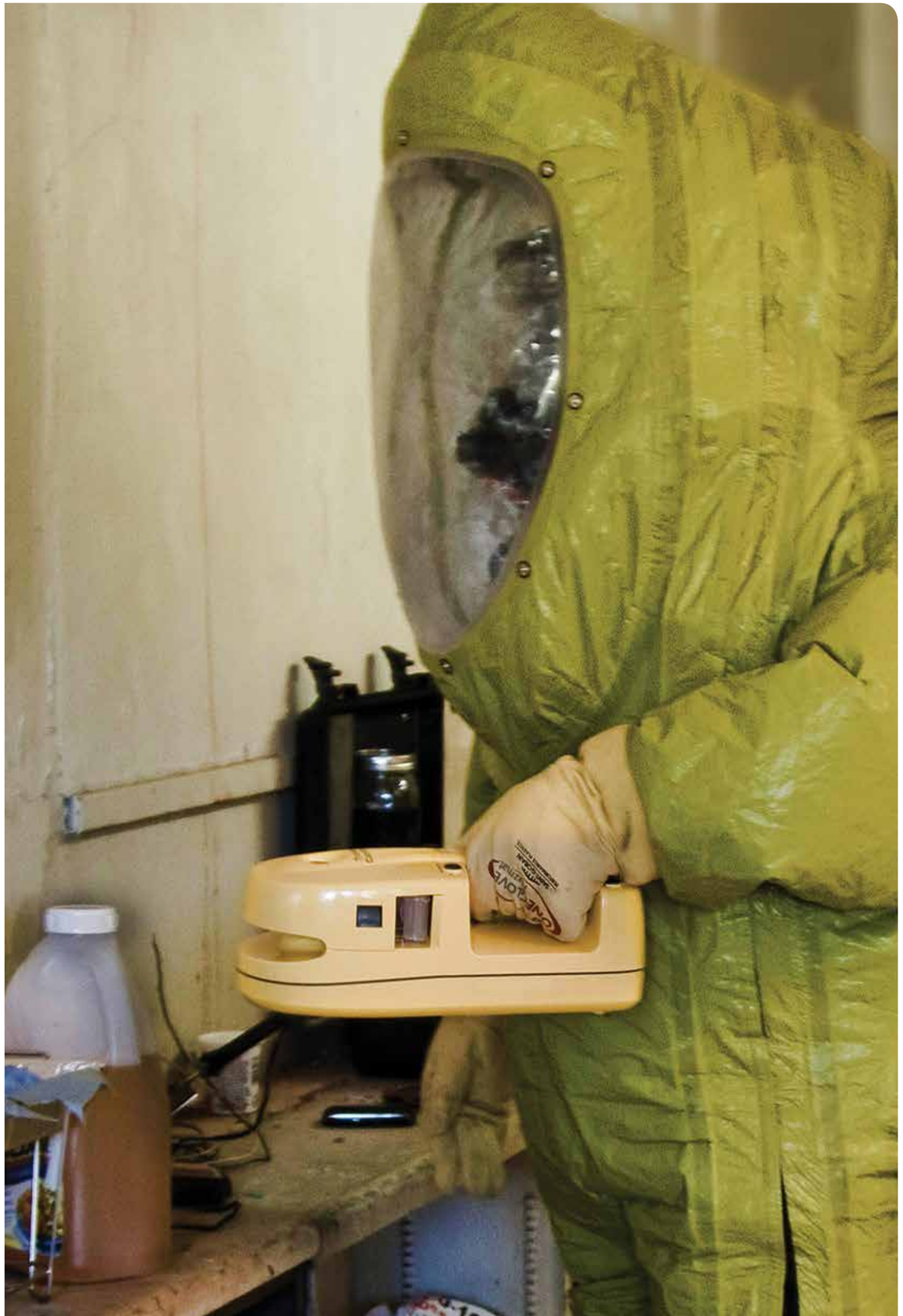
SPECIFICATIONS

TECHNOLOGY	
Technology	Rotating Impactor Collector
SAMPLING & ANALYSIS	
Sample Introduction	Aerosol sample collection cartridge
Sample Phase	Aerosol; Flow rate 200 L/min; Sample volume 2-7 mL
Threats	Collects bio-threat samples (no detection) Particle size approx. 0.5-10 microns
Sampling & Analysis	5, 15, 30 and 60 minute sampling times
SYSTEM INTERFACE	
Display & Alerts	LCD and LED displays
Training Requirements	No training or special skills required
POWER	
Input Voltage	12 VDC
Battery Specs	Li-ion; Up to 2 hrs runtime
Cold Start Time	<2 mins (includes self-calibration & diagnostics)
ENVIRONMENTAL	
Operating Temp	35 to 110 °F; 2 to 43 °C
Operating Humidity	5% to 95%, non-condensing
Storage Temp	-51 to 140 °F; -46 to 60 °C
PHYSICAL FEATURES	
Dimensions (L x W x H)	14.5 x 6.0 x 5.3 in (with battery and cartridge); 37.0 x 15.2 x 13.3 cm
Weight	7.5 lbs; 3.4 kg

Easy single-button operation in hot zone

Lab effectiveness in a rugged 7.5 lbs (3.4 kg) package

Dependable operation in harsh environments



FIDO B2

A continuous, real-time air monitor that detects bio-agents in less than 60 seconds. Fido B2 uses IBAC technology to reliably detect all four classes of bio-threats with low false alarm rates and no consumables. As the most mature and widely deployed biological trigger on the market today, the Fido B2 offers a proven, field-ready solution for bio-aerosol monitoring.

SPECIFICATIONS

TECHNOLOGY	
Technology	UV Laser Induced Fluorescence
SAMPLING & ANALYSIS	
Sample Introduction	Airborne particles; Triggered aerosol sample collector
Sample Phase	Aerosol; Flow rate 3.8 L/min, 0.13 ft³/min
Threats	Detects & collects all 4 classes of bio-threat agents; Particle size 0.7 – 10 microns; Detection level <100 particles/L of air
Sampling & Analysis	Continuous sampling; Analysis time configurable down to 1 second
SYSTEM INTERFACE	
Display & Alerts	On-board visual indicator lights; Full display via software on external computer
Communication	Ethernet, RS-232; Optional embedded wireless (900MHz or 2.4GHz)
Data Storage	Internal 2 GB MicroSD memory card; Capable of storing over 1 yr of data
Training Requirements	<2 hrs
POWER	
Input Voltage	100-240 VAC (adapter supplied); 18-36 VDC
Battery Specs	Li-ion BB 2590 military battery; Charge <4 hrs; Up to 14 hrs runtime
Cold Start Time	<5 mins (includes automatic algorithm stabilization)
ENVIRONMENTAL	
Operating Temp	-5 to 125 °F; -20 to 50 °C
Operating Humidity	5% to 95%, non-condensing
Storage Temp	-40 to 160 °F; -40 to 70 °C
PHYSICAL FEATURES	
Dimensions (L x W x H)	9.5 x 6.5 x 9.0 in (without battery); 24.0 x 16.5 x 22.9 cm
Weight	7.5 lbs; 3.4 kg
Enclosure & Protection	Aluminum, IP66 weatherproof

BIO-THREAT DETECTION & COLLECTION

Detects spores, vegetative bio-organisms, virus, and toxins

Autonomous 24/7 operation with no consumables

Alarm automatically triggers sample collector

FIDO X2

Fido X2 is an ultra-lightweight, handheld explosives trace detector (ETD). It provides an unprecedented combination of sensitivity, speed, and ease of use. Its TrueTrace™ technology detects threats with higher sensitivity and faster clear-down than similar products. On-screen prompts and training videos guide the user through operation.

SPECIFICATIONS

TECHNOLOGY	
Technology	FLIR TrueTrace™; multi-channel fluorescence technology; no radioactive source
SAMPLING & ANALYSIS	
Sample Introduction	Sampling swipes for surfaces
Sample Phase	Trace particulate
Threats	Detects military, conventional, and homemade explosives
Sampling & Analysis	Analysis ≤10 seconds
SYSTEM INTERFACE	
Display & Alerts	Visible, audible, and haptic (vibration) alerts; vivid, sunlight-readable color display (32k colors); on-screen prompts and guided operation
Communication	USB 2.0 (Mini-USB)
Data Storage	10,000 discrete files; First-in, First-out (FIFO) automatic overwrite
Training Requirements	On-device video training
POWER	
Input Voltage	100-240 VAC (wall adapter supplied); runs device and charges battery simultaneously
Battery Specs	Rechargeable and swappable Li-ion battery
Cold Start Time	<4 minutes from cold
ENVIRONMENTAL	
Operating Temp	32 to 113 °F (0 to 45 °C)
Operating Humidity	5% to 95% non-condensing
Storage Temp	14 to 122 °F (-10 to 50 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	12.7 x 3.9 x 2.8 in (with battery); 32.2 x 10.0 x 7.2 cm
Weight	1.5 lbs (680.4 g)
Enclosure & Protection	Flame retardant PC-ABS alloy with aluminum reinforcements

ULTRA-LIGHTWEIGHT EXPLOSIVES TRACE DETECTOR

Superior performance

Fast, true trace detection

Simple, guided operation

FIDO X3

Fido X3 is the lightest and most sensitive handheld ETD in its class. Its unique TrueTrace™ detection technology identifies military, conventional, homemade, and liquid explosive threats by class on surfaces (particulate) and in bottles (vapor). With a magnesium case and splash-proof seal, its rugged design meets rigorous MIL-STD-810G and IP54 specifications.

SPECIFICATIONS

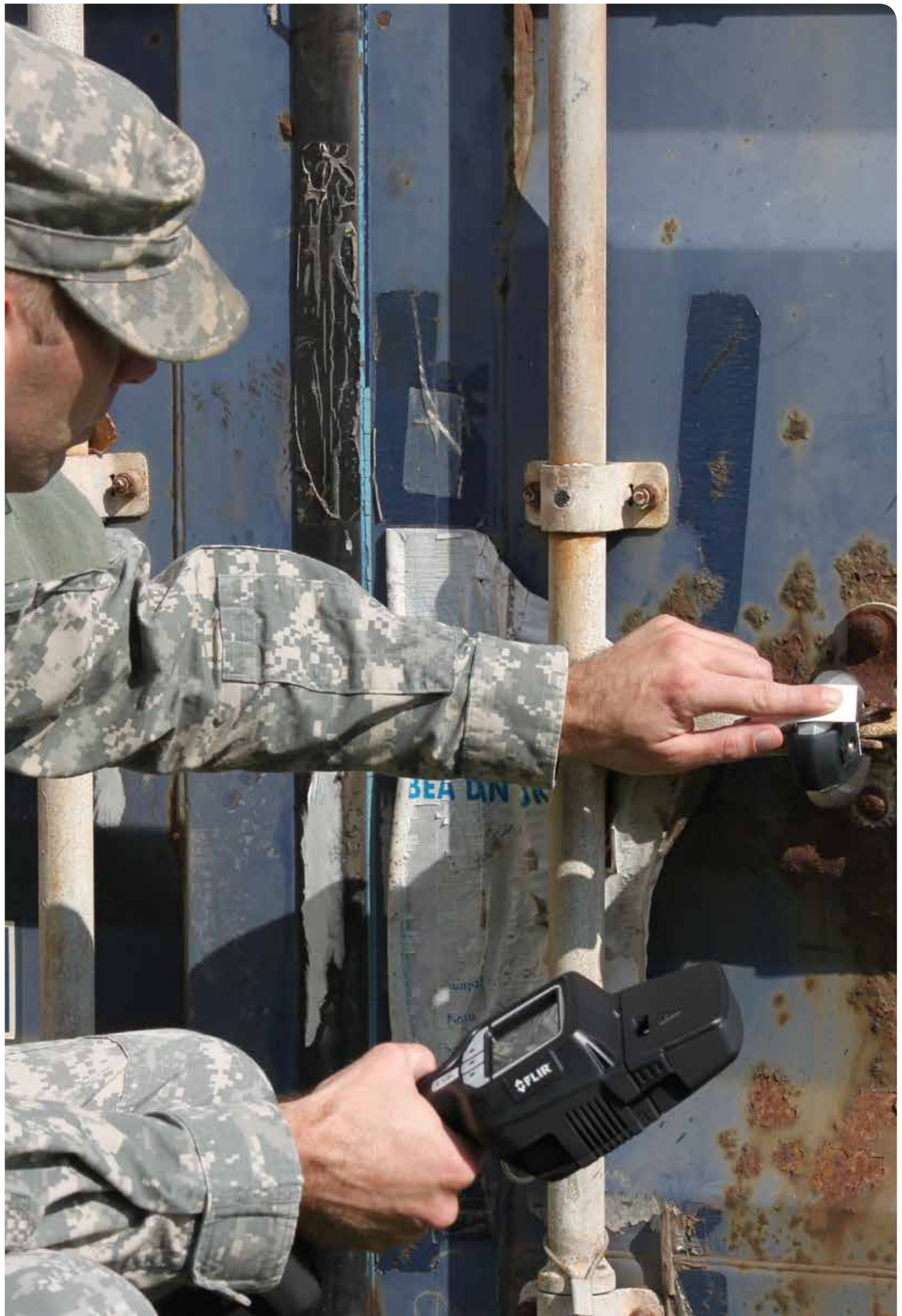
TECHNOLOGY	
Technology	FLIR TrueTrace™; multi-channel fluorescence technology; no radioactive source
SAMPLING & ANALYSIS	
Sample Introduction	Direct vapor or sample swipes
Sample Phase	Vapor and trace particulate
Threats	Detects military, commercial, homemade, and liquid explosives (3rd party certified ASTM E2520 and ECAC)
Sampling & Analysis	Analysis ≤10 sec with real-time detection capability
SYSTEM INTERFACE	
Display & Alerts	Visible, audible and haptic (vibration) alerts; Vivid, sunlight-readable color display (32k colors)
Communication	USB; Optional embedded wireless; MS Windows-based software
Data Storage	3500 hrs of continuous data logging
POWER	
Input Voltage	100-240 VAC (wall adapter supplied)
Battery Specs	Li-ion qty 2 (swappable & up to 8 hr life/ battery); Rechargeable battery (adapter included)
Cold Start Time	<5 mins or <10 seconds from sleep
ENVIRONMENTAL	
Operating Temp	14 to 122 °F (-10 to 50 °C)
Operating Humidity	5% to 95% Non-Condensing
Storage Temp	14 to 122 °F (-10 to 50 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	14.5 x 4.5 x 2.8 in(with battery); 37.0 x 11.5 x 7.0 cm
Weight	3.0 lbs (1.4 kg)
Enclosure & Protection	Injection molded magnesium and polymer composite; anti-corrosive coating

RUGGED, LIGHTWEIGHT EXPLOSIVES TRACE DETECTOR

Fast, true trace vapor and particulate detection

Rugged, MIL-STD-810G, 1-m drop tested

Long lasting, rechargeable 8-hour battery



FIDO C1

Fido C1 detects trace level chemical hazards on surfaces and also identifies bulk samples for decontamination. Reliable and easy to use, Fido C1 provides quick and accurate threat characterization in the field.

SPECIFICATIONS

TECHNOLOGY	
Technology	Enzymes
SAMPLING & ANALYSIS	
Sample Introduction	Direct surface interrogation
Sample Phase	Solid, Liquid
Threats	Nerve, Blood, Blister, Acid/Base, Aldehydes, Oxidizers
Sampling & Analysis	Sampling and analysis in <5 mins
SYSTEM INTERFACE	
Display & Alerts	Colorimetric sensor response
Training Requirements	<5 mins; no special skills required
Cold Start Time	<1 minute
ENVIRONMENTAL	
Operating Temp	32 to 113°F; 0 to 45°C
Operating Humidity	0-100%
Storage Temp	Store at room temp out of direct sunlight; Time/temp indicators for storage conditions
PHYSICAL FEATURES	
Dimensions (L x W x H)	9.0 x 5.0 x 2.0 in; 22.9 x 12.7 x 5.1 cm
Weight	<1.0 lb; <0.5 kg

CHEMICAL AGENT DETECTION KIT

Easy to train, easy to use

More selective than any existing field detection equipment

Most cost effective chemical agent detection available

SAMPLING & PRESUMPTIVE SCREENING

FIDO C2

Spray directly onto surfaces to reveal the exact location of trace amounts of chemical warfare agents (CWAs). Fido C2 detects areas exposed to chemical contamination within five minutes. The spray is offered in three applicator sizes based on mission requirements: handheld, backpack, and cart-based.

SPECIFICATIONS

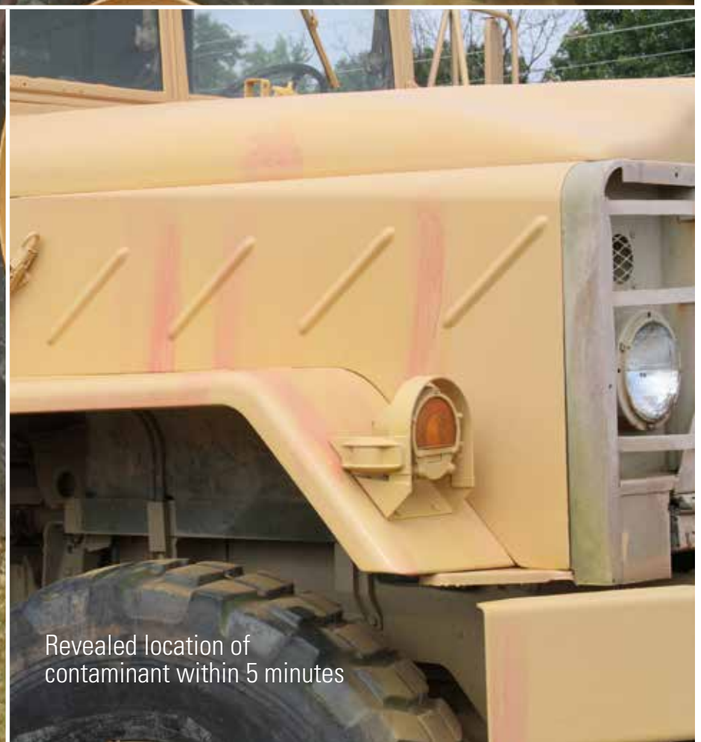
TECHNOLOGY	
Technology	Enzymes
SAMPLING & ANALYSIS	
Sample Introduction	Spray directly onto surface
Sample Phase	Solid
Threats	Nerve agent (V- & G-series) and blister agent (HD); Training disclosure spray also available
SYSTEM INTERFACE	
Sampling & Analysis	Sampling and analysis in <5 mins
Display & Alerts	Colorimetric sensor response; standard and training spray - application is yellow and contaminated surfaces change to red within 5 mins; forensic spray - application is translucent and contamination is visible under UV-light; Fluorescent additive enhances visual response of standard spray under challenging lighting conditions or surfaces when used with UV-light
Training Requirements	<1 hour; no special skills required
Cold Start Time	<3 mins
ENVIRONMENTAL	
Operating Temp	32 to 113 °F; 0 to 45 °C Nerve agent and training formulation; 23 to 113 °F (-5 to 45 °C) Blister agent formulation; Cold weather additive lowers operating temp of nerve agent and training formulations to -4 °F (-20 °C)
Operating Humidity	0-100%
Storage Temp	Store at room temp out of direct sunlight; Time/temp indicators for storage conditions
Life Expectancy	12 hr operational pot-life once prepared; 8 hrs at 104 °F (40 °C); Shelf-life >3 yrs when stored below 77 °F (25 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	Varies based on applicator
Weight	Varies based on applicator
Enclosure & Protection	Handheld, man-portable backpack & cart applicators

REVEALS CHEMICAL AGENT CONTAMINATION

Reduces decontamination costs by up to 60%

Less than one hour of training required

Suits multiple missions



Revealed location of contaminant within 5 minutes

FIDO C3

Fido C3 is the most sensitive continuous air monitor for trace chemical warfare agent (CWA) detection. Man-portable and easy-to-use, Fido C3 compliments currently fielded technologies by sensing undetected trace level CWAs and protecting people against long term exposure.

SPECIFICATIONS

TECHNOLOGY	
Technology	Enzymes
SAMPLING & ANALYSIS	
Sample Introduction	Continuous air sampling port
Sample Phase	Vapor
Threats	Detects nerve agents
Sampling & Analysis	Sampling and analysis in <5 mins
SYSTEM INTERFACE	
Display & Alerts	Audible alarm via built-in speaker; toggle (On/Mute); Visual alarms via LCD and LED
Communication	Wireless networking and GPS positioning
Data Storage	>200 hrs internal
Training Requirements	<1 hour; no special skills required
POWER	
Input Voltage	100-240 VAC (wall adapter supplied)
Battery Specs	Li-ion; rechargeable battery (adapter included)
Cold Start Time	<5 mins
ENVIRONMENTAL	
Operating Temp	39.2 to 113 °F; 4 to 45 °C
Operating Humidity	5% to 95% Non-Condensing
Storage Temp	-4 to 158 °F; -20 to 70 °C
Life Expectancy	Consumable cartridge runs up to 24 hrs; Shelf-life >3 yrs when stored below 77 °F (25 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	8.0 x 13.3 x 7.3 in; 20.3 x 33.7 x 18.4 cm
Weight	15.0 lbs; 6.8 kg
Enclosure & Protection	MIL Standard 810G tested

CONTINUOUS CHEMICAL AIR MONITORING

Eliminates false alarms

Wireless communications enable remote alarms

Integrated GPS for threat mapping

REMOTE DETECTION & IDENTIFICATION

The identiFINDER® and Stride™ family of products detect dangerous threats, but can also identify the specific target threating public safety. These products provide an extra layer of information that enables you to confidently take action in the line of duty.

RADIATION DETECTION

The identiFINDER R series are easy-to-use handheld instruments that quickly detect, locate, and identify radiation sources. Select products contain on-board Bluetooth, web server, and GPS technologies and produce rapid visible, audible, and tactile alerts that expedite response measures. The common operating interface reduces training time and costs, while increasing operator confidence and inter-operability between agencies using FLIR products.

Stride systems are used to monitor for the presence of nuclear material and identify the specific threat, with minimal interference to other operational tasks. Stride systems can be openly or covertly installed in building entrances, at airports, bus or train stations, above or beside luggage or freight conveyer belts, by stadium entrances, at ship ports, and in many more similar locations at potential risk of attack.

IDENTIFINDER R200

identiFINDER R200 is a rugged, pager-sized spectroscopic personal radiation detector (SPRD) featuring a CsI detector (7.5% resolution) with next-generation solid state detector read-out technology. It is ANSI N42.32 and ANSI N42.48 compliant with identification for gamma sources to enable immediate front-line detection and response during a radiological event.

SPECIFICATIONS

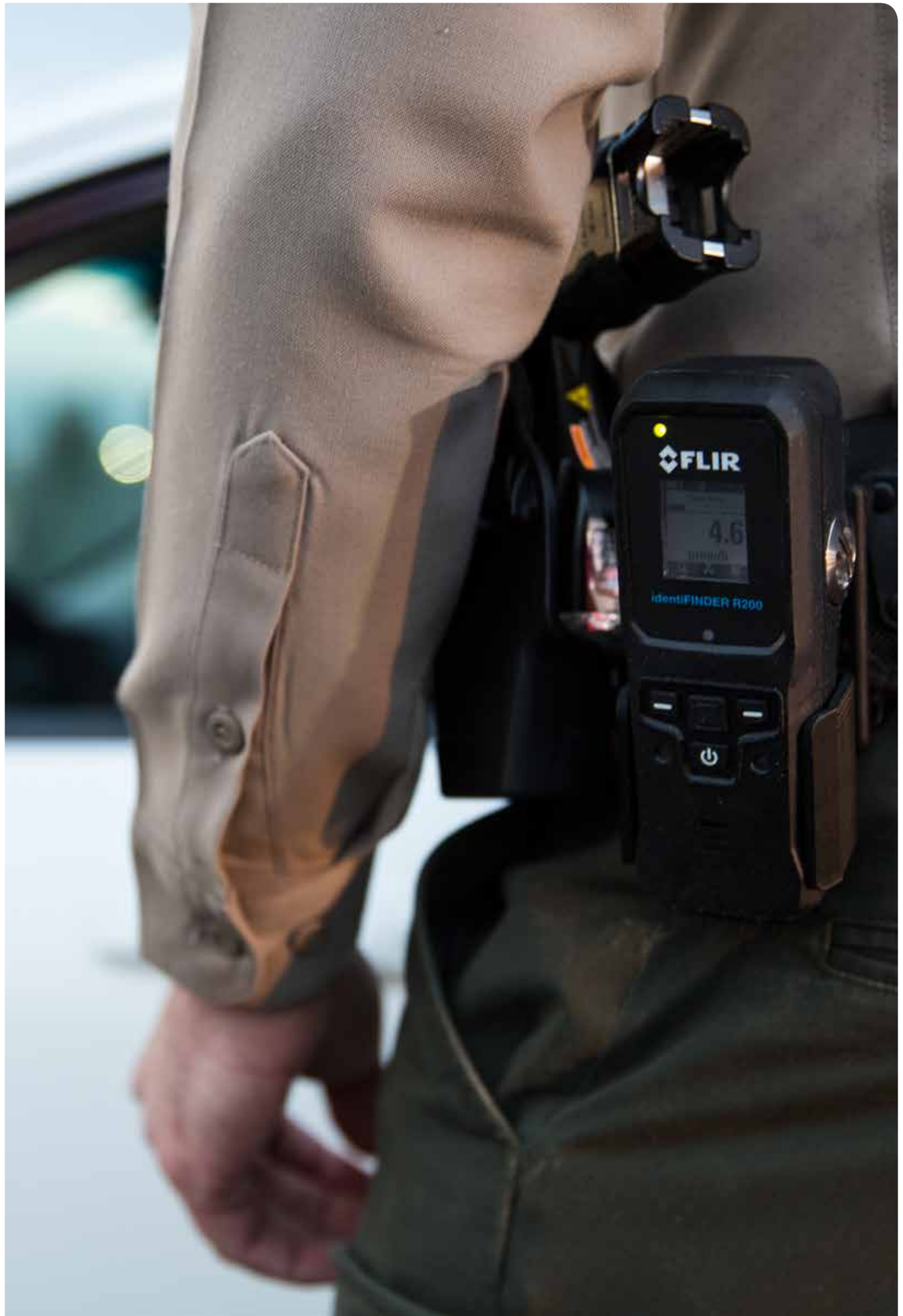
TECHNOLOGY	
Technology	Spectroscopic personal radiation detector (SPRD)
Detectors	Gamma
Dose Rate	≤100 nSv/h – 250 µSv/h (≤10µRem/h – 25 mRem/h); ±20%
Energy Range	25 keV - 3 MeV
Standards Compliance	ANSI N42.32 PRD standard fully compliant and ANSI N42.48 SPRD standard fully compliant, including nuclide identification
SAMPLING & ANALYSIS	
Sample Introduction	Absorption of EM gamma emissions
Threats	Detects gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material
Sampling & Analysis	From a few seconds to minutes
SYSTEM INTERFACE	
Display & Alerts	Memory LCD black and white display
Communication	USB 2.0; mini-B socket; Bluetooth® ≤10m range (removable)
Data Storage	30MB internal memory; up to 5000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
POWER	
Input Voltage	100-240 VAC (wall/car adapters and USB cable supplied)
Battery Specs	Internal single cell Li-ion: operational battery life ≥36h; replaceable back-up CR-123A: operational battery life ≥18h; recharge time ≤6h when using AC or USB power source
Cold Start Time	<2 mins from cold start
ENVIRONMENTAL	
Operating Temp	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	93% RH @ 35 °C non-condensing
Storage Temp	14 to 95 °F (-10 to 35 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	5.7 x 2.2 x 1.9 in (with battery); 14.5 x 5.6 x 4.8 cm
Weight	≤0.88 lb (0.4 kg)
Enclosure & Protection	Plastic injection with rubber overmold; protection rating IP67 according to IEC 60529

SPECTROSCOPIC PERSONAL RADIATION DETECTOR

Gamma identification (7.5% resolution)

Long-lasting 36 hour battery with 18 hour backup

Single hand operation and shared common user interface



IDENTIFINDER R300

A high-resolution spectroscopic personal radiation detector (SPRD) that provides gamma and neutron detection and full identification capability using CZT detectors (3.5% resolution). It features a bright, transflective color screen, Bluetooth®, GPS, and full web interface connectivity. This product is the ideal solution for high-fidelity, belt-worn passive scanning.

SPECIFICATIONS

TECHNOLOGY	
Technology	Spectroscopic personal radiation detector (SPRD)
Detectors	Gamma and Neutron
Dose Rate	≤100 nSv/h – 10 mSv/h (≤10 µrem/h – 1.0 rem/h); ±30 %
Energy Range	30keV-3MeV
SAMPLING & ANALYSIS	
Sample Introduction	Absorption of EM gamma or neutron emissions
Threats	Detects neutron or gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial or medical material
Sampling & Analysis	From a few seconds to mins
SYSTEM INTERFACE	
Display & Alerts	Transflective color LCD
Communication	USB 2.0; mini-B socket; Bluetooth
Data Storage	2GB internal memory; up to 600,000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
POWER	
Input Voltage	100-240 VAC (wall adapter, car adapter, and USB cable supplied)
Battery Specs	Internal single cell Li-ion; Operating duration: ≥24 h at 77.0 °F (25.0 °C)
Cold Start Time	<2 mins from cold start
ENVIRONMENTAL	
Operating Temp	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	10 % to 93 %, non-condensing
Storage Temp	14 to 95 °F (-10 to 35 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	1.3 x 2.8 x 4.9 in(with battery); 3.3 x 7.0 x 12.5 cm
Weight	1.0 lb (0.5 kg)
Enclosure & Protection	IP63 according to IEC 60529

HIGH RESOLUTION SPECTROSCOPIC PERSONAL RADIATION DETECTOR

Gamma and neutron identification (3% resolution)

Battery life greater than 24 hours

Transflective color LCD screen

IDENTIFINDER R400

The best all-around handheld radiation detection and identification product you can find. With over 20,000 devices in the field, the identiFINDER R400 is the most trusted radio-isotope identification device (RIID) worldwide. This product is ideal for all-purpose surveying, emergency response, and environmental monitoring. The R400 provides simultaneous identification of up to 4 radioisotopes.

SPECIFICATIONS

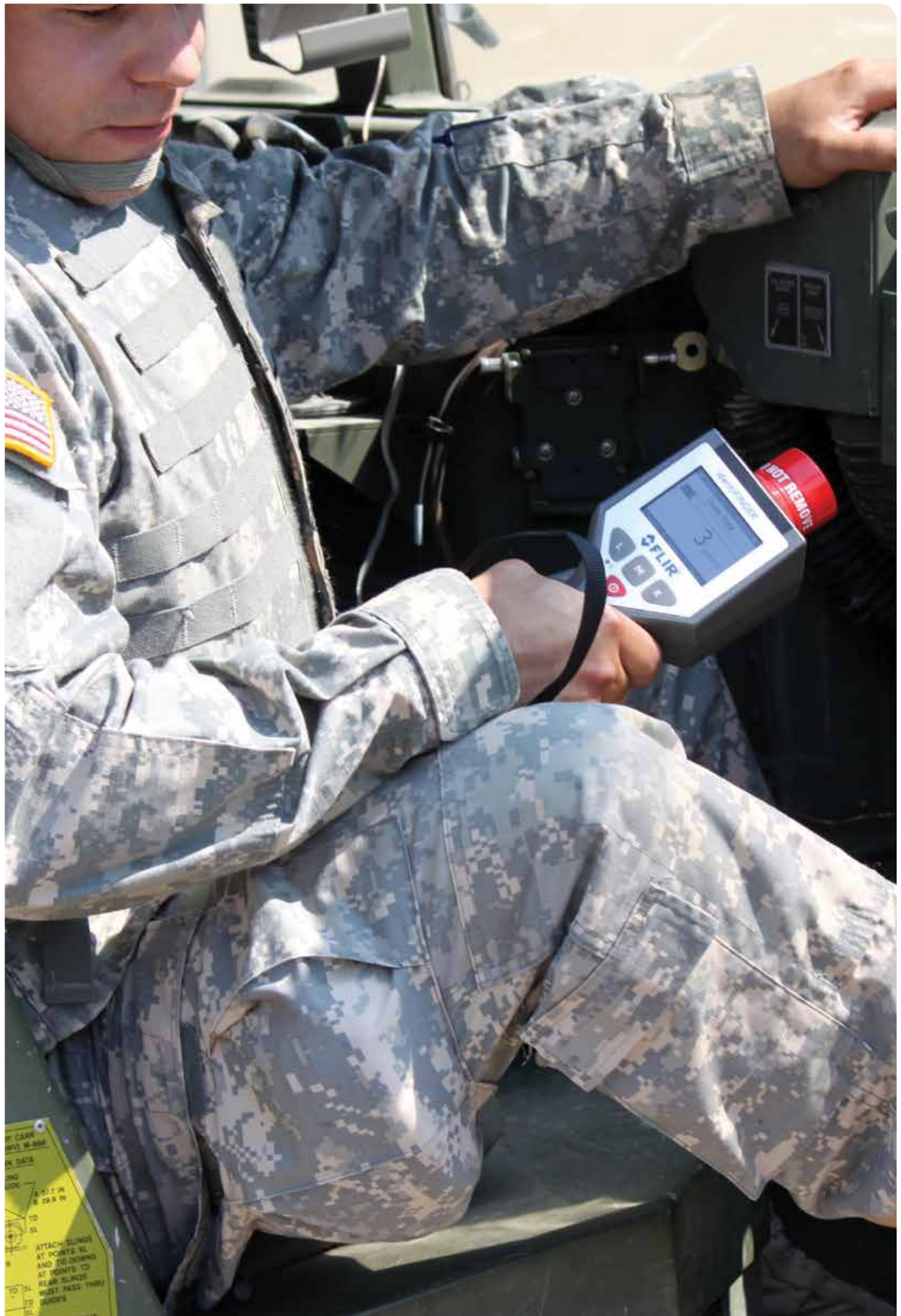
TECHNOLOGY	
Technology	Radioisotope identification device (RIID)
Detectors	Gamma and Neutron
Dose Rate	0.000 µSv/h – 10.00 mSv/h (0 µrem/h – 1.0 rem/h)
Energy Range	20 keV – 3 MeV
SAMPLING & ANALYSIS	
Sample Introduction	Absorption of EM gamma or neutron emissions
Threats	Detects neutron or gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial or medical material
Sampling & Analysis	From a few seconds to mins
SYSTEM INTERFACE	
Display & Alerts	Transflective color LCD
Communication	USB 2.0; Bluetooth
Data Storage	2GB internal memory; up to 600,000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
POWER	
Input Voltage	100-240 VAC (wall adapter, car adapter, and USB cable supplied)
Battery Specs	Either rechargeable NiMH or 4x AA pack (supplied); Operating duration ≥8 h at 68.0 °F (20.0 °C)
Cold Start Time	<2 mins
ENVIRONMENTAL	
Operating Temp	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	10 % – 80 %, non-condensing
Storage Temp	14 to 95 °F (-10 to 35 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	3.7 x 9.8 x 3.0 in(with battery); 9.4 x 24.9 x 7.6 cm
Weight	≤3.2 lbs (≤1.5 kg)
Enclosure & Protection	IP53 according to IEC 60529; optional variant with IP68 according to IEC 60529

HANDHELD SPECTROSCOPIC RADIATION DETECTION AND IDENTIFICATION

Rugged & lightweight

8 hours operating time on a single charge

Three button interface and easy to operate in protective suits



IDENTIFINDER R500

The fastest and most sensitive radionuclide identification device (RID) for detection and identification of radiation sources. The identiFINDER R500 is as easy to use as it is powerful. This product is the ideal solution for truck and cargo checks, for large area scanning and for locating, and identifying shielded sources.

SPECIFICATIONS

TECHNOLOGY	
Technology	Radioisotope identification device (RIID)
Detectors	Gamma and Neutron
Dose Rate	0.000 µSv/h – 1.00 mSv/h (0 µrem/h – 100 mrem/h)
Energy Range	20 keV – 3 MeV
SAMPLING & ANALYSIS	
Sample Introduction	Absorption of EM gamma or neutron emissions
Threats	Detects neutron or gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial or medical material
Sampling & Analysis	From a few seconds to mins
SYSTEM INTERFACE	
Display & Alerts	Transflective color LCD
Communication	USB 2.0; mini-B socket; Bluetooth
Data Storage	2GB internal memory; up to 600,000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
POWER	
Input Voltage	100-240 VAC (wall adapter, car adapter, and USB cable supplied)
Battery Specs	Operating duration ≥8 h at 68.0 °F (20.0 °C)
Cold Start Time	<2 mins
ENVIRONMENTAL	
Operating Temp	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	10 % – 80 %, non-condensing
Storage Temp	14 to 95 °F (-10 to 35 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	8.3 x 5.1 x 12.7 in(with battery); 21.1 x 12.9 x 32.3 cm
Weight	≤6.4 lbs (≤2.9 kg)
Enclosure & Protection	IP54 according to IEC 60529

HIGHLY SENSITIVE HANDHELD SPECTROSCOPIC DETECTION & IDENTIFICATION

Rapidly identify & locate primary radiation source

Continually stabilizes for temperature and other conditional changes

Reachback via Bluetooth with event data

STRIDE SERIES

Stride systems are ideal for checkpoint screening, critical infrastructure security, event screening, parcel inspection, and area monitoring. The Stride system is scalable and flexible to meet the diverse challenges found in many applications. All detection units automatically stabilize and calibrate.

HARDWARE OPTIONS

200 Series

The Stride 200 Series detection unit is ideal for area monitoring, package inspection, or people screening. The unit utilizes a 2" x 3" NaI detector and can be mounted on walls or doorways, behind reception desks or entry control counters, above parcel conveyer belts, and in other similar applications. Housed in an aluminum tube, this unit is designed primarily for indoor use or installation into other enclosures for custom applications.

300 Series

The Stride 300 Series detection unit is housed within a stanchion. The unit utilizes a 2" x 3" NaI detector and can be deployed in place of existing crowd control stanchions to covertly monitor people passing by. It appears and functions exactly the same as a standard crowd control stanchion with the ability to rapidly identify a radioactive source. This unit has been utilized in critical infrastructure and events drawing large crowds to deter and mitigate the threats of radioactive material.

400 Series

The Stride 400 series detection unit is made up of weatherproof enclosures utilizing either 2"x4"x16" or 2"x3" detectors. While monitoring local areas, people, or packages the smaller 2"x3" detector provides enough sensitivity to rapidly identify radiological threats. The 2"x4"x16" detection unit offers higher sensitivity and is better suited for monitoring large areas or vehicles. Either way, this unit is capable of continuous monitoring for radiation in harsh outdoor environments.

Custom Configurations

Stride detection units can be utilized in an array of environments and addresses a wide variety of applications. Please contact your FLIR representative for the most up to date information on all the hardware options available or to discuss customer applications.

FLEXIBLE AND SCALABLE RADIATION DETECTORS

Entry Control Checkpoints

Vehicle Screening

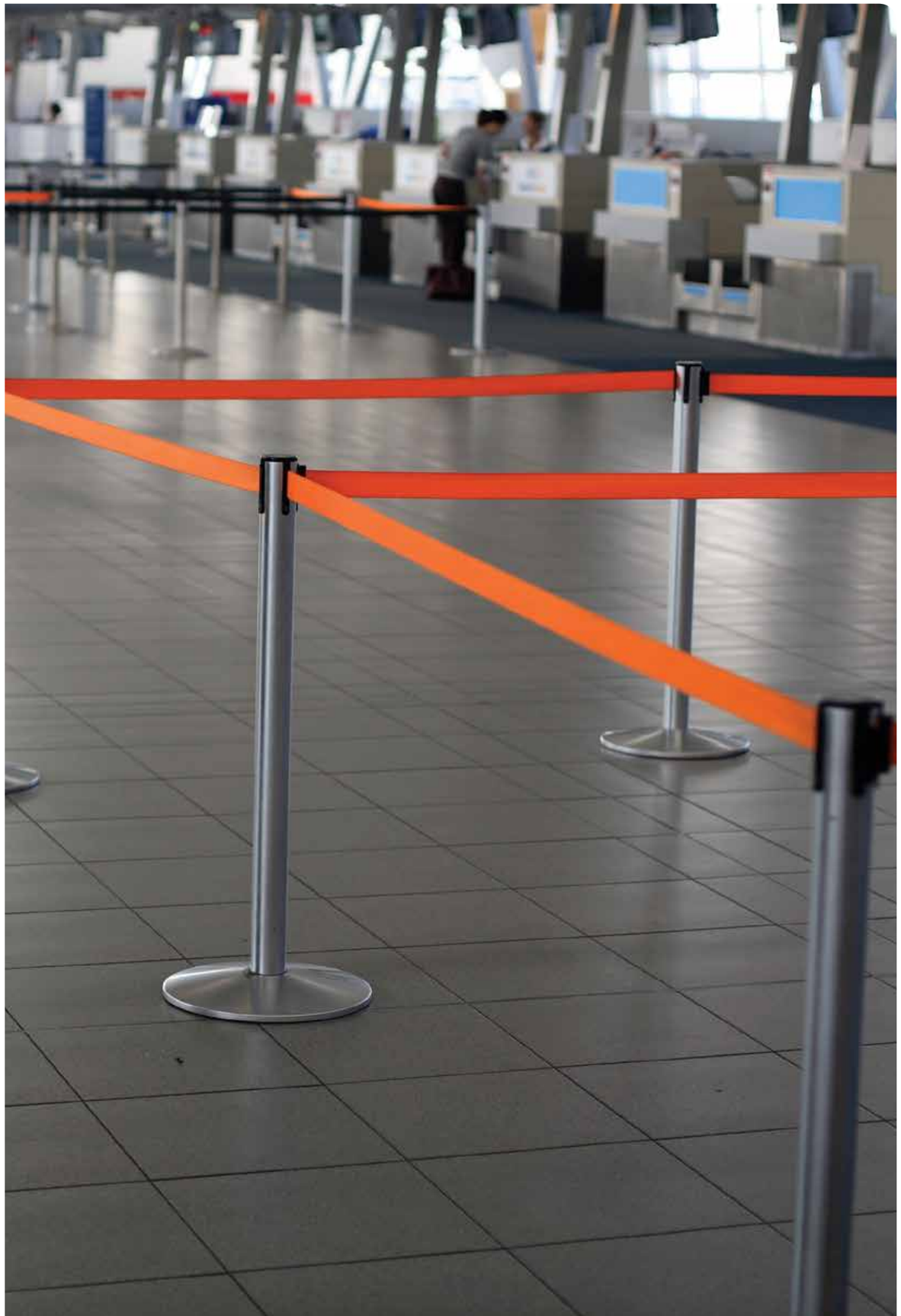
Package/Baggage Inspection

Mailroom Safeguards

Critical Infrastructure Security

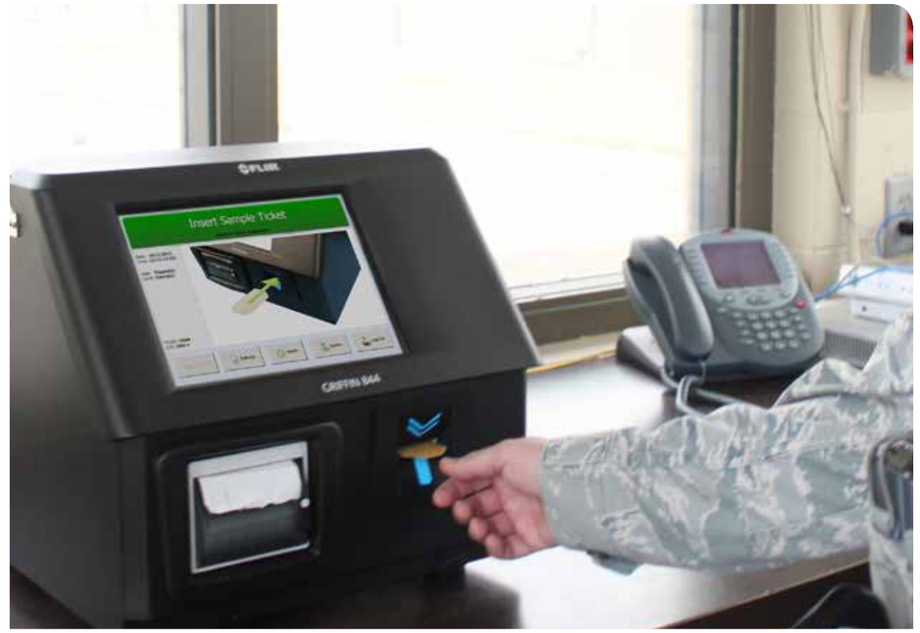
VIP Protection

Event Monitoring



TRACE ANALYSIS & CONFIRMATION

CBRNE and HAZMAT emergencies rarely occur in the safety of a laboratory – they can happen anywhere. The Griffin™ series of trace analysis tools delivers lab quality results in field-ready packages that anyone can use. The common simplified user interface offers quick, simple, and accurate answers that lead you to action.



CHEMICAL, DRUG AND EXPLOSIVES DETECTION

Griffin instruments use next generation mass spectrometry technology to accurately detect and identify explosives, drugs, CWAs, TICs, environmental pollutants and a wide range of other chemicals. Each Griffin model is built to operate in challenging environments, from road vehicles and deployable lab containers to entry control checkpoints and temporary tent structures. Unique sample inlets and hassle-free sampling accessories enable operators to analyze air, liquid, or solid samples. The combination of intuitive software and expandable libraries provide users with high fidelity, easy to read results that instill confidence at the site of action.

GRIFFIN400 SERIES

The FLIR Griffin 400-series mobile GC/MS systems are designed to meet rugged, MIL-STD 810G standards and are built to operate in moving vehicles. Integrated sample inlets and quick connect sampling tools extend missions to remote locations and help expedite chemical identification near the site of action. The Griffin 400-series provide the ease of use and gold-standard intelligence needed to perform real-time countermeasures that protect public safety.

SPECIFICATIONS

TECHNOLOGY	
Technology	Gas Chromatograph / Mass Spectrometer (GC/MS) utilizing low thermal mass gas chromatograph (LTM-GC) and MS/MS capable ion trap mass analyzer
Detectors	Conversion dynode electron multiplier
SAMPLING & ANALYSIS	
Sample Introduction	Integrated sample inlets; 9 sampling tools
Sample Phase	Solid, vapor, liquid
Threats	Detects & identifies explosives, narcotics, CWAs, TICs, environmental pollutants, and a wide range of other chemicals
Sampling & Analysis	Full identification in 4-15 mins for most chemicals
SYSTEM INTERFACE	
Display & Alerts	Full automation by connection with computer
Communication	Ethernet connection TCP/IP; Remote operation and remote diagnostics
Data Storage	Data automatically stored on supplied laptop (500 gb)
Training Requirements	1-2 days depending on level of training desired
POWER	
Input Voltage	100–240 VAC; 24 VDC (+/- 5%, 25 A, 600 W)
Cold Start Time	<30 mins (includes automatic tuning/calibration)
ENVIRONMENTAL	
Operating Temp	41 to 95 °F (5 to 35 °C)
Operating Humidity	<85% relative humidity
Storage Temp	-13 to 131 °F (-25 to 55 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	≤21.1 x 19.2 x 19.2 in; 53.6 x 48.8 x 48.8 cm
Weight	≤98 lbs (44.5 kg)
Enclosure & Protection	Ruggedized chassis and internal shock mounting system; Miniature turbo molecular pump & quad diaphragm (contained w/in instrument, no external pump required)

LAB QUALITY, MOBILE GC/MS THAT ANYONE CAN USE

Quick connect sampling tools

Lab-quality capability at the site of action

Simple data presentation and user controls

GRIFFIN844

A desktop trace detector that is used to screen personal belongings, parcels, cargo, skin, vehicles, and other surfaces for explosives and narcotics threats. FLIR's exclusive mass spectrometry technology offers dual-mode detection and alarms only for true threats. It is equipped with an unprecedented, expandable library that protects against current and future threats. The innovative system design ensures fast and reliable clear-down, eliminates overnight bake-outs, and minimizes maintenance.

SPECIFICATIONS

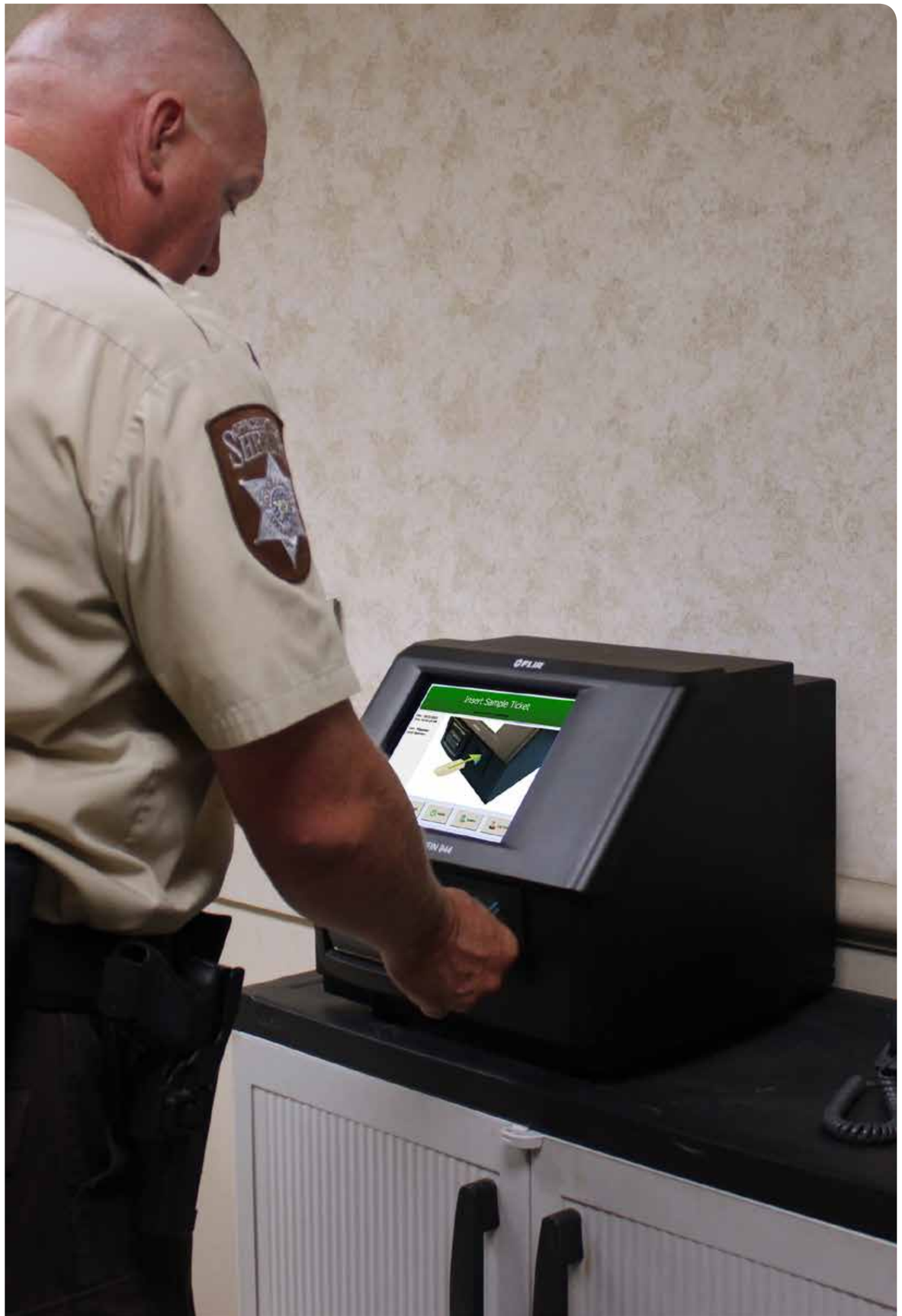
TECHNOLOGY	
Technology	Mass spectrometer; non-radioactive, dual-mode ionization source
SAMPLING & ANALYSIS	
Sample Introduction	Sample swipe
Sample Phase	Trace particulate
Threats	Detects and identifies a broad range of military, commercial, and home-made explosives (including peroxide-based explosives) and commonly abused narcotics, pharmaceutical drugs and controlled substances, including synthetic and designer drugs; list available upon request
Sampling & Analysis	10-20 second analysis
SYSTEM INTERFACE	
Display & Alerts	Audible/visual alarm via high res LCD touchscreen
Communication	Two USB ports and ethernet connection TCP/IP; remote operation and diagnostics
Data Storage	On-board
Printer	On-board thermal printer
Training Requirements	1-2 days depending on level of training desired
POWER	
Input Voltage	110-240 VAC
Cold Start Time	<30 mins (includes automatic tuning/calibration)
ENVIRONMENTAL	
Operating Temp	32 to 104 °F (0 to 40 °C)
Operating Humidity	95% humidity
Storage Temp	-13 to 131 °F (-25 to 55 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	19 x 18 x 18 in (48 x 45 x 45 cm)
Weight	45 lbs (20 kg)
Enclosure & Protection	Custom fit transport case with handle & wheels

EXPLOSIVES AND NARCOTICS DETECTION AND SCREENING

Significantly Lower False Alarm Rate

Expandable Threat Library

Maximum Operational Availability



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