

# Product Datasheet

# Fido X4

## Premium Handheld Explosives Trace Detector

The Fido X4 is a premium handheld explosives trace detector (ETD) that delivers unmatched sensitivity for a broad range of explosives, so you can easily detect threats at levels others cannot.

Next generation TrueTrace® detection technology features a new five-channel sensor array that delivers expanded threat coverage, enhanced sensitivity, and identification in a wide range of environmental conditions. The simplified user interface features onboard video tutorials, user prompts, and color-coded alarms with strength indicators so you can operate quickly and decisively.

Analysis and reporting of results are made simple through multiple modern connectivity options, allowing critical data to be shared quickly. From high-volume checkpoint and randomised screenings to foot patrol and standoff operations, Fido X4 is ready to go when and where you need it.



### Features and Benefits

- Detect a wide range of explosives at nanogram to sub-nanogram levels, including Nitroaromatics, Nitramines, Nitrate-esters, Nitrosamines, Plastic Explosives, Smokeless Powders, and Peroxides.
- Gain actionable intelligence through identification of threats in as little as ten seconds Environmental monitoring.
- Particulate sampling mode for high-throughput checkpoint or randomised screening; vapour sampling mode for handheld bottle and container liquid screening.
- Learn basic operation and start screening quickly with on-device video tutorials and on-screen user prompts that provide step-by-step instruction.
- Easily interpret results with clear, color-coded alarms, and strength indicators.
- Power, firmware updates, data transfer, and future reach back capability with Bluetooth®, Wi-Fi, and USB-C connectivity options.
- Light (1.5 kg) and ergonomically designed to minimise operator fatigue during high throughput screening scenarios.
- Up to 16-hour mission time with two 8-hour, hot-swappable batteries included.
- IP54-rated for dust ingress and water resistance.
- MIL-STD-810G compliant for shock, vibration, temperature, and humidity; one meter droptested.

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# Specifications

## Technology

**Technology** TrueTrace®; five-channel fluorescence technology; no radioactive source.

## Sampling and Analysis

**Sample Introduction** Swipes for particle collection and surface sampling; direct vapour for bottled liquids.

**Sampling Phase** Trace particulate and vapour.

**Threats** Detects military, conventional, homemade, and liquid explosives.

**Time to Alarm** 10 - 25 seconds.

**Clear-Down Time** Less than 30 seconds.

## System Interface

**Display and Alerts** Visible, audible, and haptic (vibration) alerts; vivid, sunlight-readable colour display (32k colors).

**Localisation** Language translation available worldwide.

**Communication** USB-C (Drive and Link modes), toggleable Wi-Fi, and Bluetooth.

**Data Storage** 3,500 hours of continuous data logging.

**Data Management** On-device report generation; export to mass storage.

**User Levels** Operator, Administrator.

## Power

**Input Voltage** 100-240 VAC (wall adapter supplied).

**Battery Specifications** Up to 16-hour mission time; two rechargeable and hot-swappable Li-ion batteries, each lasting up to 8 hours.

**Startup Time** 3 minutes from cold; <10 seconds from sleep.

## Environmental

**Operating Temperature** -20 to 50 °C (32 to 104 °F)

**Operating Humidity** 5 to 95% condensing.

**Storage Temperature** -10 to 50 °C (14 to 122 °F)

## Physical Features

**Dimensions (L x W x H)** 37 x 11.5 x 7 cm – with battery.

**Weight** 1.5 kg

**Enclosure and Protection** IP54-rated, moulded magnesium and polymer composite casing with anti-corrosive coating.

Specifications are subject to change without notice.  
For the most up-to-date specifications, please visit [www.flir.com](http://www.flir.com)

## Southern Scientific Limited

Scientific House, The Henfield Business Park  
Shoreham Road, Henfield, BN5 9SL, UK

**E-mail:** [info@southernscientific.co.uk](mailto:info@southernscientific.co.uk)

**Tel:** +44 (0)1273 497600

[www.southernscientific.co.uk](http://www.southernscientific.co.uk)