

# FIDO® X4

## Premium Handheld Explosives Trace Detector



*explosives*  
**detection**



### OVERVIEW

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 can't. Next generation FLIR 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 randomized screenings to foot patrol and standoff operations, Fido X4 is ready to go when and where you need it.



### NEXT LEVEL DETECTION

*Expanded threat detection with best-in-class sensitivity from FLIR TrueTrace® Technology*

- 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
- Particulate sampling mode for high-throughput checkpoint or randomized screening; vapor sampling mode for UGV missions or handheld bottle and container liquid screening



### OPERATIONALLY AVAILABLE

*Intuitive interface dramatically reduces training burden and increases end-user adoption and retention*

- 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



### DESIGNED FOR THE MISSION AT HAND

*Designed for extended operations in a wide range of environmental conditions*

- Light (3.2 lbs) and ergonomically designed to minimize 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 drop-tested
- UGV hardware kit includes mounting bracket, inlet and screen protection, and battery port cover. FLIR PackBot® Integration Kit in development for 2020.

# FIDO® X4 SPECIFICATIONS

## TECHNOLOGY

Technology FLIR TrueTrace™; multi-channel fluorescence technology; no radioactive source

## SAMPLING & ANALYSIS

Sample Introduction Swipes for particle collection and surface sampling; direct vapor for bottled liquids and UGV-based missions

Sample Phase Trace particulate and vapor

Threats Detects military, conventional, homemade, and liquid explosives

Time to Alarm 10-25 seconds

Sampling & Analysis Less than 30 seconds

## SYSTEM INTERFACE

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

Localization 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, and UGV mode

## POWER

Input Voltage 100-240 VAC (wall adapter supplied)

Battery Specs 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 32° to 113° F (0° to 45° C)

Operating Humidity 5% to 95% non-condensing

Storage Temperature 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 (37.0 x 11.5 x 7.0 cm) - with battery

Weight 3.2 lbs (1.5 kg)

Enclosure & Protection IP54-rated, molded magnesium and polymer composite casing with anti-corrosive coating

## UNMANNED PLATFORM INTEGRATION

UGV Hardware Integration Kit UGV hardware kit includes mounting bracket, inlet and screen protection, and battery port cover. FLIR PackBot® Integration Kit in development for 2020.



