The ICx Fido® Explosives Detector integrated with iRobot® PackBot® detects explosive vapors and particulates emanating from munitions and Improvised Explosive Devices (IEDs) while keeping the operator and civilians out of harm’s way. The versatile PackBot, featuring a highly dexterous, seven foot arm/ manipulator, can drive to and reach through windows, under vehicles and around obstructing objects and place ultra-sensitive explosive detectors close to suspicious packages and other potentially dangerous items.

**ICx Fido® Explosives Detector Specifications and Capabilities**

- **Power Battery**: Lithium Ion (4 hour life)
  - AC: 100 - 120 V, 50 - 60 Hz
- **Adapters Power Supply**: 100 - 250 V, 50 - 60 Hz, AC adapter 100 - 120 V 12 V connector (supplied)
- **Memory**: 256 MB (handheld with 10 days continuous logging capability)
- **Weight**: 2.7 lbs (including battery)
- **Explosive Vapor and Particulate Detection**: Ultra-sensitive detection device (parts per quadrillion)
- **Field Replaceable Sensing Element**: In-field flexibility from robot payload to handheld usability
- **Real-time audio/visual feedback**

**ICx Fido® Explosives Detector**

Effective protection from the threat of improvised explosive devices requires a detection solution that is personal and portable. Based on breakthrough detection technologies, and coupled with iRobot’s battle-proven PackBot, with Fido Kit enables operators to investigate and disarm packages, shipping containers, and vehicles for traces of explosives while keeping people and personnel safe.

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**About iRobot Corp.**

iRobot Corp. specializes in behavior-based robots that help people complete tasks with better results. More than 2,000 iRobot PackBot tactical mobile robots have been delivered worldwide.

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These robots have also been credited with saving the lives of many men and women of the U.S. Armed Forces around the world.

**About ICx Technologies**

ICx develops advanced technologies for effective security solutions. ICx sensors detect and identify chemical, biological, radiological, nuclear and explosive (CBRNE) materials. ICx surveillance products discern people and objects invisible to human senses and conventional cameras.

**About ICx Technologies**

ICx software and systems connect, command and control these devices, while its intelligence and special-operations experts provide the unique insight that drives the company’s innovation. ICx has manufacturing and research facilities in the United States, Canada and Europe.

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**ICx Fido EXPLOSIVES DETECTION KIT AND SPECIFICATIONS**:  

**ICx Fido Explosives Detector**  
Manipulator Arm  
QuickClamp Mount  
SmartSpool™ Fiber Optic Spooler  
Portable Command Console (PCC) 1.0  
3 NiCad Batteries  
Dual Micro Charger Kit  
Rugged Equipment Cases  
User Documentation

**Lighting**  
Variable-intensity LEDs mounted at each camera location. Surveillance camera has both white and IR LED arrays for illuminating in all ambient light conditions.

**Vision and Targeting Head**  
Equipped with powerful cameras, the vision and targeting head ensures operators can see, sense and overcome whatever is in the robot’s path. The QuickClamp Mount also allows for fast and reliable installation and removal of a variety of accessories.

**Driv e Camera**  
Wide-angle, mounted on base of unit with multiple positions, allowing for forward, rear, downward views and views of Manipulator positions.

**Surveillance Camera**  
Continuous pan and 220° tilt, color CCD with 300x zoom, auto focus, image stabilization and low light capabilities.

**ARM CAMERAS**  
Two color arm cameras provide view of head from 2nd elbow, allowing for maneuvering in tight situations.

**MANIPULATOR**  
A powerful Manipulator with flexible elbow joints enables the robot to lift up to 15 pounds with arm in a compact position or 5 pounds while fully extended. 360-degree base rotation allows for precise sensor placing (reaching into windows, under cars, and into trunks).

**SmartSpool™ Fiber Optic Spooler**  
The intelligent fiber spooler, with up to 820 ft. of reusable optical fiber, with automatic low-tension payout and rewind, eliminating fiber tangle.

**iRobot’s Hand Controller**  
Optimizes the ease-of-use and significantly reduces on-robot training time. The PCC provides operators with pre-set manipulator positions and 3D-active robot on-screen display enables the operator to easily position and visualize the robot allowing for precise operation.

**PORTABLE COMMAND CONSOLE (PCC) AND OPTIONAL HAND CONTROLLER**

**PCC Specifications**  
Size  
18" W x 14.6" L x 18.5" H (open)  
7" H (closed)  
Weight  
41 lbs with 1 NiCad Battery  
Environmental  
All Weather Operation  
Screen  
10.5” Daylight Readable  
Processor  
Pentium with 128 MB RAM  
Power  
2 Battery Slots, (batteries interchangeable with Robot)

**Input Devices**  
iRobot Hand Controller  
Membrane keyboard with integral mouse  
Two multi-degree-of-freedom controllers  
Membrane keypad with mission specific buttons  
Portability  
Carry handle and strap  
Duration  
3 hrs nominal mission  
Can be run from external power supply  
Software  
Multi-image display with full screen option  
3D active model of vehicle  
Gauge display of batteries  
Gauge display of fiber  
Image capture capability  
Power-saving sleep mode  
Multiple speed ranges  
Multiple pre-set manipulator positions  
Auxiliary USB, Ethernet, video output  
Multi-lingual  
Two way audio communications