

## SUGV

Back-packable, rugged robot

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### APPLICATIONS

**DISMOUNTED AND  
MOBILE OPERATIONS**

**EXPLOSIVE ORDNANCE  
DISPOSAL (EOD)**

**SURVEILLANCE/  
RECONNAISSANCE**

**REMOTE INSPECTION**



FLIR SUGV is a portable, single-person-lift robot with dexterous manipulation, providing dismounted EOD technicians and other responders with a highly mobile robot that climbs stairs and manipulates objects.

SUGV is carried and deployed from packs while on the move. The robot weighs about 30 lb (13 kg) with the manipulator and batteries installed and fits into packs with 9 by 28 inch clearances.

Equipped with wide-angle color, IR and zoom cameras, SUGV can maintain on-task for up to six hours.

The SUGV manipulator lifts up to 22 lb (10 kg) and also supports numerous accessories and disruptor solutions.

SUGV is controlled from the uPoint® Multi-Robot Control system, featuring a touchscreen-based tablet controller that allows an operator to select from across the family of connected robots. SUGV uses the MPU5 radio operating on the Wave Relay® MANET, to form a robust network in which robots, operators, and observers seamlessly operate together.

### FEATURES

#### **PORTABLE AND RAPIDLY DEPLOYABLE**

Weighs about 30 lb (13.6 kg) with the manipulator and batteries installed.

#### **STRONG, DEXTEROUS MANIPULATION**

The manipulator lifts up to 22 lb (10 kg) and rotates a continuous 360 degrees. Supports optional disruptors.

#### **POWERFUL MULTI-SENSOR CAPABILITY**

Four color cameras with zoom and illumination. Supports an optional fifth camera with thermal capability.

#### **CONTROLLABLE FROM THE UPOINT® MULT-ROBOT CONTROL SYSTEM**

Using the touchscreen-based ruggedized tablet controller, an operator can select from across the family of connected robots.

#### **SUPERIOR COMMUNICATIONS**

The MPU5 radio operating on the Wave Relay® MANET, allows the robot to penetrate deeper into complex structures and further downrange than ever before.

## SPECIFICATIONS

### ACCESSORIES

Flatbed Backpack - Accommodates SUGV, controller, batteries and accessories.

FLIR LWIR Thermal Camera- the thermal image transmits directly to the robot's tablet controller.

Adaptive Specialty Probe Tool Kit for PackBot and SUGV - four specialty tools for cutting, raking, scraping and probing IEDs and other hazards.

Disruptors and the Firing Control System - accommodates recoilless disruptors. Uses a third-party firing circuit.

### PRODUCT SPECIFICATIONS

|   |  |
|---|--|
| Weight - Mobility platform, manipulator and 2 BB-2557 batteries | 30.6 lb (13.8 kg)  |
| Runtime   | Up to 6 hours  |
| Mobility - Speed  | Up to 6.2 mph (10 km/h)  |
| Mobility - Agility  | Zero radius turn   |
| Mobility - Slopes   | 40° (ascend, descend) 30° Lateral  |
| Mobility - Vertical Obstacles                                   | 12" (30.5 cm)  |
| Mobility - Stair Climbing                                       | 38" [rise 8" (20.3 cm), run 10" (25.4 cm)]   |
| Manipulator Lift  | >22 lb (10 kg) close-in<br>>12 lb (5.4 kg) at max extension<br>[(24" (61 cm)]  |
| Awareness   | Four (4) cameras   |
| Compatible  |  Connects to the Wave Relay® MANET, to form a robust network in which robots, operators, and observers seamlessly operate together. |
| Expansion   | Multiple payload ports, multiple accessories, sensors and disruptors supported   |
| Controller  | uPoint® Multi-Robot Control System   |
| Export Regulations  | EAR  |



## AMERICAS

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