



BACK-PACKABLE, RUGGED ROBOT

FLIR SUGV

FLIR SUGV is a portable, single-person-lift robot with dexterous manipulation, providing dismantled 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 disrupters.

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.

APPLICATIONS

DISMOUNTED AND MOBILE OPERATIONS

EXPLOSIVE ORDNANCE DISPOSAL (EOD)

SURVEILLANCE/ RECONNAISSANCE

REMOTE INSPECTION

DETAILS

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 >12 lb (5.4 kg) at max extension [(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



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