

## TIGR®

### Transportable Interoperable Ground Robot

#### → OVERVIEW

The Transportable Interoperable Ground Robot (TIGR) is a medium-sized, two-man carried UGV. The TIGR is a highly mobile, all weather system capable of operating in any terrain. TIGR incorporates best in class day and night vision modules that expedite IEDD search and CBRN survey operations. The two-meter reach of the 6 DOF manipulator allows the TIGR to effectively search/access a broad spectrum of environments, therefore facilitating EOD Render Safe operations in critical situations. The TIGR's modular design ensures that the most advanced manipulators, CBRN, and EOD payloads can be employed now and in the future. TIGR's innovative design and integrated technology maximizes safe stand-out distances, expedites mission completion, and keeps warfighters and first responders out of harm's way.



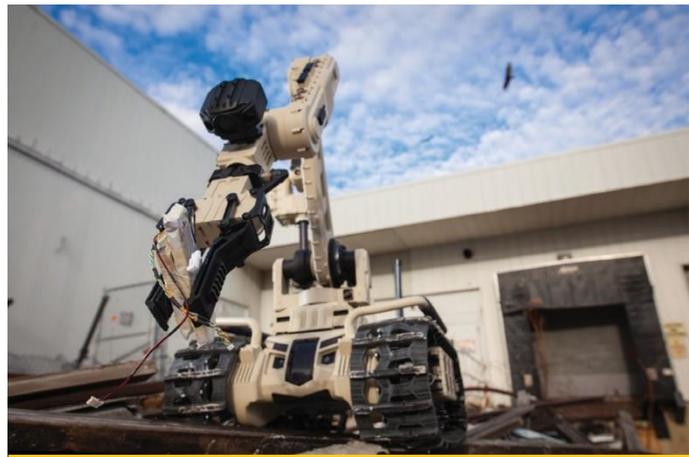
#### → SYSTEM HIGHLIGHTS

Modular design allows for various add-ons, sensors and future technology integration.

High maneuverability enables system to overcome challenging environments, rough terrain and various obstacles.

Advanced vision module with six best-in-class, HD video cameras allow the operator to maintain complete situational awareness.

Tactical 5 DOF manipulator for high dexterity to perform complex EOD missions.



#### → MAIN APPLICATIONS

CIED, IEOD

Chemical Biological Radiological Nuclear (CBRN) detection.

Hazardous Material (HAZMAT) incidents.

Subterranean and culvert inspection.

→ **TECHNICAL SPECIFICATIONS**

**SYSTEM**

<u>PARAMETER</u>	<u>DESCRIPTION</u>
Dimensions (LxWxH):	(LxWxH) 36 in x 23 in x 14 in / 91 cm x 58 cm x 35 cm
Weight:	136lbs/ 62 kg, including 6 batteries
Stair Climbing:	40°, 8" / 22.5 cm
Environmental:	Ingress Protection 67, Operating Temp. -25°F to 120°F
Vertical Obstacle:	9.5 in / 24 cm
Range:	2296 ft / 700 m LOS
Operating Time:	Default 8 hours (for 6 batteries);
Reliability specifications:	MILSTD 461,810
Vision:	3 Color HD cameras HD ultra-low light, IR-cut (day/night)
Audio:	Integrated Microphone

**MANIPULATOR**

<u>PARAMETER</u>	<u>DESCRIPTION</u>
Total Weight:	42 lbs (19 Kg)
Degrees of Freedom:	5D – Continuous pan, Shoulder, Shoulder pitch, Elbow pitch, Wrist pitch and continuous roll and Gripper
Manipulator Length	
Fully Collapsed:	31.5 in (80 cm)
Fully Extended:	55.1 in (140 cm)
Max Height	
(inc platform height):	77 in (195.1 cm)
Front of Platform Pick up:	42 lbs (19 Kg)
Full Extension Pick up:	13 lbs (6 Kg)
IOP Ports:	3 X IOP (for additional Payloads)

**OBSERVATION HEAD**

<u>PARAMETER</u>	<u>DESCRIPTION</u>
Main Cameras:	Day and Thermal image
Degrees of Freedom:	3D- Shoulder, Pan continuous, Tilt.
Optical Zoom:	X30
Illumination:	4 white and NIR led

