

# RT-200 (TIGR)

Transportable Interoperable Ground Robot

## Overview

The TIGR (Transportable Interoperable Ground Robot) 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 6 DOF manipulator allows the TIGR to effectively search/access a broad spectrum of environments, facilitating EOD Render Safe operations in critical situations. The modular design ensures that the most advanced manipulators, CBRN, and EOD.



## System highlights

- High maneuverability enables system to overcome challenging environments, rough terrain and various obstacles.
- Modular design allows for various add-ons, sensors and future technology integration.
- Advanced vision module with six best-in-class HD video cameras, allow the operator to maintain complete situational awareness.
- Tactical 6-DOF manipulator for high dexterity to perform complex EOD missions.



## Main applications

- Counter-IED, Law Enforcement, SWAT.
- First Responders CBRNE Detection.
- Hazardous Material (HAZMAT) incidents.
- Subterranean and culvert inspection.

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In use with:



## Platform Specifications

Parameter	Description
Dimensions (LxWxH)	36 x 23 x 32 in / 91 x 59 x 81 cm
Weight	185 lbs / 84 kg , including 6 batteries
Stair Climbing	45°, 10 in / 24.5 cm
Environmental	IP67
Operating Temp	-25°f to 120°f / -31°c to 50°c
Vertical Obstacle	9.5 in / 24cm
Operating Time	8 hours (for 6 batteries)
IOP Ports	Total 7 X 24v type B
Vision	5 day & night cameras
Audio	Two-Way Audio

## Manipulator Specifications

Parameter	Description
Degrees Of Freedom	6 DOF - Base PAN, Shoulder, Elbow 1, Elbow 2, Wrist, and Gripper
Manipulator Length Fully Extended	59 in / 150 cm
Max Height (Inc Platform Height)	77 in / 196 cm
Front Of Platform Lift	33 lbs / 15 kg
Full Extension Lift	13 lbs / 6 kg
IOP Ports	3 x 24v type b

## Observation Head

Parameter	Description
Main Cameras	Day/Night + Thermal
Degrees Of Freedom	Continuous Pan , Tilt
Optical Zoom	x30
Illumination	4 white and NIR leds High sensitivity sensor for low light and near total dark conditions.

