

# 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 IED 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. Payloads can be rapidly integrated to meet evolving mission requirements.



## 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 preform complex EOD missions.



## Main Applications

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

Roboteam

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In use with:



## Platform Specifications

Parameters	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

Parameters	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.

