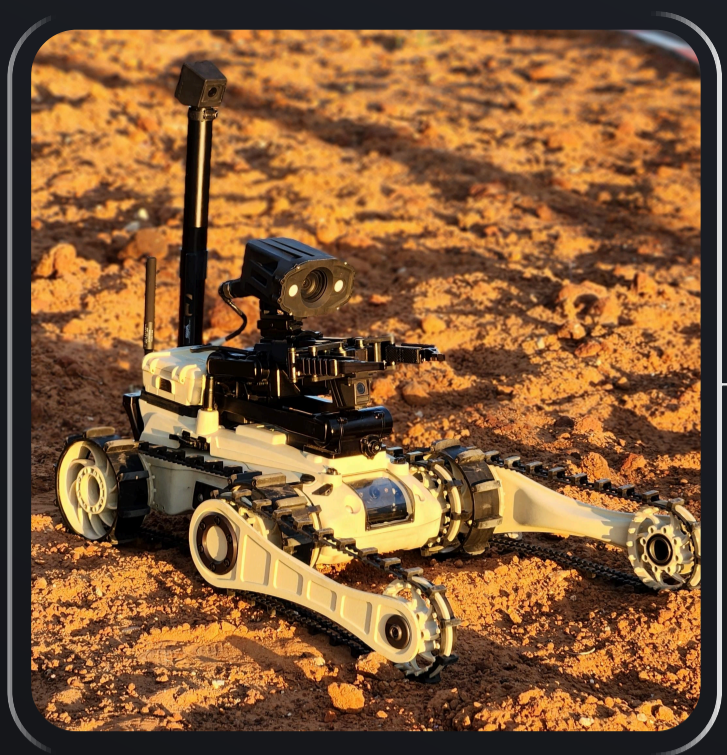


# RT-20<sub>(MTGR)</sub>

Micro Tactical Ground Robot

## Overview

The MTGR (Micro Tactical Ground Robot) platform is a unique and lightweight tactical robot with high maneuverability in any terrain - indoors, outdoors, and subterranean. Following years of operations and end-user feedback, the MTGR was specially designed to aid military, law enforcement and public safety units in various combat situations around the world. Whether for an EOD, Urban Warfare, Special Operations, or public safety mission - MTGR dominates the unknown.



## System Highlights

- Advanced all-terrain maneuverability including stair climbing and self-righting capabilities
- Enhanced 360° high-resolution video coverage Day & Night for uninterrupted mission execution
- Backpackable tactical robot with 4 DoF Manipulator Arm and highly-intuitive ROCU controller
- Improved design allows for various add-ons, sensors, and future technology integration



## Main Applications

- Reconnaissance, Surveillance and Target Acquisition
- Subterranean and Culvert inspection
- Dismounted EOD & CBRNE Operations
- Essential tool for enhancing the capabilities of any military, law enforcement or public safety units

Roboteam

# RT-20<sub>(MTGR)</sub>

Micro Tactical Ground Robot

In use with:



## Platform Specifications

Parameters	Description
<b>Dimensions (LxWxH)</b>	17.9 x 14.5 x 5.7 in / 45.5 x 36.8 x 14.5 cm
<b>With Wheel Kit (LxWxH)</b>	18.6 x 18.5 x 6.5 in / 47.2 x 47 x 16.5 cm
<b>Weight</b>	20.7 lbs / 9.4 kg , 25.3 lbs / 11.5 kg w / wheels
<b>Max Payload Weight</b>	22 lbs / 10 kg
<b>Vertical Obstacle</b>	14 in / 35 cm
<b>Stair Climbing Ability</b>	45°, 8 in / 20 cm
<b>Communication</b>	Secure IP Mobile Ad-hoc network
<b>Power Supply</b>	24v mil-std battery
<b>Working Time</b>	3 Hours
<b>Video &amp; Cameras</b>	4 integrated cameras for 360° real time day & night, 2 cameras on manipulator & optional mast camera (7 in total)
<b>Payload Ports</b>	Power , IOP X2 (Ethernet & Power 24V) CAN bus
<b>Drive Camera Tilt Module</b>	-20° to 90° (under vehicle inspection)
<b>Illumination Module</b>	360° nir illumination + front white led + laser pointers
<b>Audio</b>	Two-Way Audio
<b>Mechanical Interfaces</b>	Multiple Picatinny Rails for mounting accessories (disruptors, ext. cameras, wire cutter, long fingertips etc.)

## Tactical Manipulator Specifications

Parameters	Description
<b>Degrees Of Freedom</b>	4 DOF, (Shoulder, elbow, wrist, gripper)
<b>Gripper Opening</b>	4.3 in / 11 cm
<b>Weight</b>	8.8 lbs / 4 kg
<b>Lift Capacity</b>	11 lbs / 5 kg , fully extended
<b>Reach Length</b>	19.3 in / 49 cm
<b>Cameras</b>	1. Optical zoom X30, Auto focus 2. Close range gripper
<b>Illumination</b>	White / NIR LED
<b>Mechanical Interface</b>	Quick release screws & Picatinny rails

