

MTGR®

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 and outdoors. 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

Man carried tactical platform with 4 DOF Manipulator and a highly intuitive interface

360° video coverage day & night vision for uninterrupted mission control

Essential tool for enhancing the capabilities of any military, law enforcement or public safety unit

Advanced all-terrain maneuverability including stair climbing and self-righting capabilities.

→ MAIN APPLICATIONS

Reconnaissance, Surveillance and Target Acquisition

Subterranean and Culvert inspection

Dismounted EOD operations

Law Enforcement, SWAT and First Responders CBRNE Detection

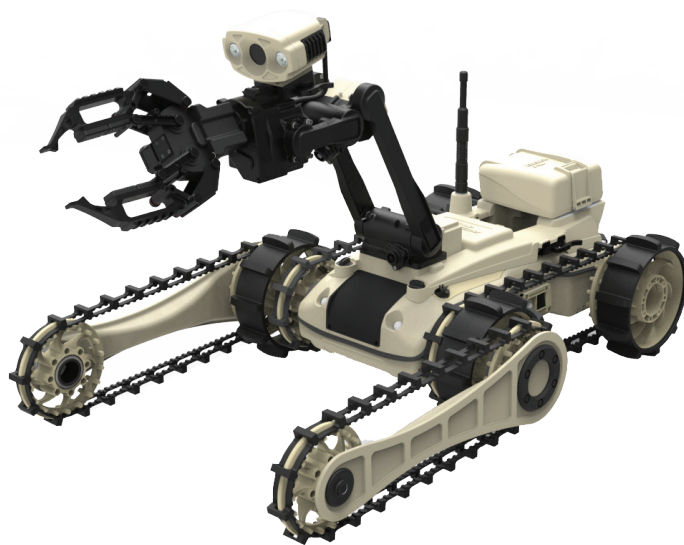
→ TECHNICAL SPECIFICATIONS

PLATFORM

| PARAMETER | DESCRIPTION |
|---------------------------------|---|
| Dimensions (LxWxH) | 17.9 x 14.5 x 5.7 in / 45.5 x 36.8 x 14.5 cm |
| With Wheel Kit (LxWxH) | 18.6 x 18.5 x 6.5 in / 47.2 x 47 x 16.5 cm |
| Weight | 20.7 lbs / 9.4 kg, 25.3 lbs / 11.5 kg W / wheels |
| Max Payload Weight | 22 lbs / 10 kg |
| Environmental | Ruggedized, IP65 |
| Max Speed | 2.2 mph / 3.5 km/h |
| Vertical Obstacle | 14 in / 35 cm |
| Stair Climbing Ability | 45°, 8 in / 20 cm |
| Communication | Secure IP Mobile Ad-hoc network |
| Operating Range | 1600 ft / 500 m LOS |
| Power Supply | 24V MIL-STD battery |
| Working Time | 3 hours |
| Video & Cameras | 5 integrated cameras for 360° Real time day & night, 2 cameras on manipulator & optional Mast camera (8 in total) |
| Payload Ports | Power (12-28V), Ethernet , Video/Audio, CAN bus, 12V I/O, 5V I/O |
| Drive Camera Tilt Module | -20° to 90° (under vehicle inspection) |
| Illumination Module | 360° NIR illumination + front white LED +laser pointers |
| Audio | Microphone |
| Mechanical Interfaces | Multiple Piccantiny Rails for mounting accessories (disruptors, ext. cameras, wire cutter,long fingertips etc.) |

TACTICAL MANIPULATOR

| PARAMETER | DESCRIPTION |
|-----------------------------|--|
| Degrees of Freedom | 4 DOF, (shoulder, elbow, wrist, gripper) |
| Gripper Opening | 4.3 in / 11 cm |
| Weight | 8.8 lbs / 4 kg |
| Lift Capacity | 11 lbs / 5 kg , fully extended |
| Reach Length | 19.3 in / 49 cm |
| Cameras | 1. Auto focus camera, Optical zoom X10 2. Close up gripper camera |
| Illumination | White / NIR LED |
| Mechanical Interface | Quick release screws & Picatinny rails |
| Environmental | IP65 |
| Operational Temp | -4°F to 140°F / -20°C to 60° C |



→ In use with:



ROBOTEAM DEFENSE
22 Aharon Bart St.
Petah Tikva, 4951448 Israel
T +972.3.6870008