

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

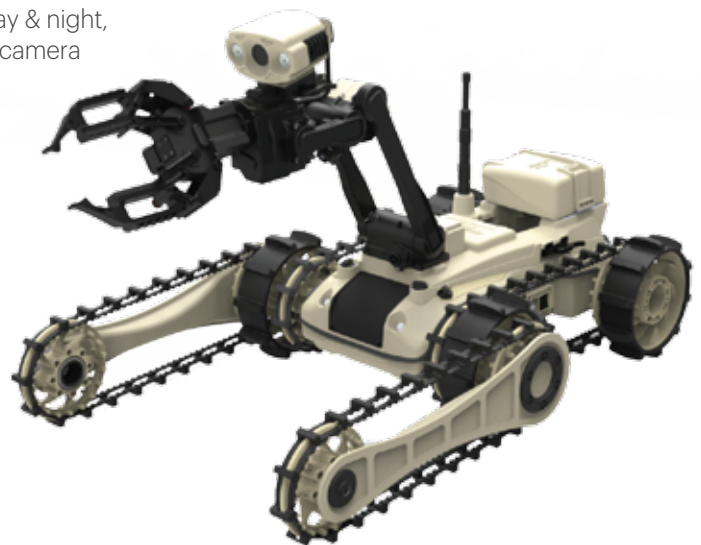
→ TECHNICAL SPECIFICATIONS

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	16 lbs (7.3 kg) ,20.7 lbs (9.4 kg) with wheels
Max Payload Weight	22 lbs (10 kg)
Military Standards	Ruggedized, IP65
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 Roboteam battery
Working Time	3 hours
GPS	Internal
Video & Cameras	5 integrated cameras for 360° Real time day & night, 2 cameras on manipulator & optional pole camera (8 in total)
Payload Ports	Power (12-28V), Ethernet , Video/Audio, Canbus, 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)
Max Gripper Opening	4.3" (11 cm)
System Weight	8.8 lbs (4 kg)
Max Lift Capacity	11 lbs (5 kg) , fully extended
Reach Length	19.3" (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
Operational Temp	-4°F to 140°F (-20°C to 60° C)
Reliability Specs.	IP65



→ In use with:



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