

## **RoboTeam LTD.**

### **MTGR® MICRO TACTICAL GROUND ROBOT**



The MTGR® (Micro Tactical Ground Robot) platform is a unique and robust lightweight, man portable, tactical unmanned vehicle with high maneuverability in all terrains both indoors and outdoors with 4 DOF manipulator. Designed for ISR, EOD, and IED at urban and open terrain.

The MTGR® system, which includes the MTGR® platform, ROCU® control unit and relevant payload, is a high-performance system featuring a simple and intuitive control interface.

It was specially designed to aid military, law enforcement and public safety units in various combat situations around the world. Whether it is for an EOD unit or Special Ops, tactical missions or monitoring public safety – The MTGR® dominates the unknown.

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The MTGR®, a light EOD platform, is ready to take the world by storm. Agile and flexible, the MTGR® can negotiate obstacles and quickly climb stairs to explore several floors ahead of ground forces. Moreover, the MTGR®'s unique communication technology allows a single operator to control several platforms on the ground, maritime or air interchangeably.

The man-carried system is controlled by the Ruggedized Operator Control Unit (the ROCU®) - a high resolution, handheld, touch-screen operator console with gamepad controllers.

### **SPECIFICATIONS**

- **Dimensions** (L x W x H) 17.9" x 14.5" x 5.7" / 45.5cm x 36.8cm x 14.5cm
  - **Weight** 16lbs (7.3kg) or 19lbs with wheels (8.6kg)
  - **Max Payload** 10kg (22 lbs)
  - **Speed** 3.5 Km/hr (2 Mph)
  - **Stair Climbing Ability** 45°, 8 inch (20cm)
  - **Communication** Secured IP MESH data link
  - **Operating Range** LOS- 500 m (1600 feet)
  - **Power Supply** 14V Mil Std or 24V Roboteam's battery
  - **Working Time** 2-4 hours (operation mode dependent)
  - **Payload Ports** Power (12-28V), Ethernet RJ45, RS232, Video/Audio
  - **Mechanical Interfaces** Standard Picatinny rails
  - **GPS** Internal
  - **Video & Cameras** 360° Real time day & night video + zoom x10 and audio
  - **Sensor Tilt module** -20° - +90°
  - **Illumination module** 360° NIR illumination + front white LED
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## **IRIS® - INDIVIDUAL ROBOTIC INTELLIGENCE SYSTEM**

The IRIS® is an ultra-light weight, planed for ISR missions, fast deployable, extremely ruggedized hand-carried unmanned system.

It is designed to support several units such as SWAT Teams, public safety, military and law enforcement. The IRIS can enter small and confined spaces, above or underground, to explore dangerous areas relaying intelligence and reconnaissance information in real time.



Using cameras and the microphone, suited for day and night operations, the IRIS operators are able to quickly access the hazards of dangerous situations from a safe distance, allowing the IRIS to be our first line of defense ahead of human or canine forces. The IRIS can carry a verity of add-ones for different missions. The hand-carried system is controlled by the Ruggedized Operator Control Unit (the ROCU) – a high resolution, handheld, touch-screen operator console with gamepad controllers.

### **Main Features**

- Ultra-light weight
  - Extremely ruggedized
  - Quiet operation
  - Day & night vision for uninterrupted mission control including snapshot capability
  - Intuitive control unit
  - Enables mounting of various add-ons (Flashlight, thermal camera, and more) through standardized connections
  - Communication – 200M LOS
  - Built in microphone for audio monitoring
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## **SPECIFICATIONS**

- **Dimensions** (L x W x H) - 8" x 9" x 4.3"/20.32cm x 22.86cm x 10.92cm
- **Weight** - 1.62kg (3.6 lbs)
- **Speed** - 5 km/hr (3Mph)
- **Vision & Audio** - Real time day&night video + zoom, Lasers and audio
- **Communication** - LOS - 200 meter (700 feet), Secured IP MESH data link
- **Working Time** - 2 hours (operation mode dependent)
- **MIL STD** - Replaceable field batteries, MIL-STD 810G, IP65, ruggedized
- **Payload Ports** - Ethernet, RS232, Video/Audio

## **PROBOT® - PROFESSIONAL ROBOT**



The PROBOT® (Professional Robot) is the only tactical multipurpose platform for urban terrain and outdoor operations. Its unique abilities include carrying heavy payloads while maintaining high speeds, sound maneuverability over various obstacles and performing semi-autonomous missions.

It is extremely versatile and can lift and carry up to 1,650 lbs., climb stairs and maneuver directly to a point of interest, even in confined areas, enhancing the capabilities and effectiveness of small ground forces.

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The PROBOT® has unique tracing and imaging sensors enabling a hands-free navigation solution in urban, indoors and open spaces. As a logistic platform, the PROBOT® provides a way to carry supply, equipment or materials creating a lighter and more effective ground force.

With different payloads available, the PROBOT® can fit any mission's needs. From a logistics carrier or search and rescue transporter, to fire fighter reinforcement or EOD route clearing assistance, the PROBOT® can help keep soldiers, law enforcement and public safety personnel out of harm's way.

The Probot system is controlled by the Ruggedized Operator Control Unit (the ROCU®) - a high resolution, handheld, touch-screen operator console with gamepad controllers.

#### **POTENTIAL ACCESSORIES & APPLICATIONS**

Logistics Carrier

EOD Kit with verity sensors

Intelligence, Surveillance, Reconnaissance and Target Acquisition Sensors (ISR)

Public Safety Kits (CBRNE, HAZMAT and More)

Sensors Integration

#### **SPECIFICATIONS**

- **Dimensions** (L x W x H) –55" x 39" x 23" / 1402mm x 998mm x 590mm
  - **Weight** - 230 kg. (500 lbs)
  - **Payload Weight** - 750 kg (1,650 lbs)
  - **Speed** (Km/hr) - 8.5
  - **Vision&Audio** - 360° Real time day&night video+zoom x10
  - **Communication** - LOS - 500m (1,600 feet), WR, Secured IP, MESH data link
  - **Working Time** - 8-10 hours (operation mode dependent)
  - **MIL STD** - Replaceable field batteries, IP65
  - **Payload Ports** - External Power, Ethernet RJ45,12V Output, GPS ant, RF ant, Video/Audio
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## **ROCU®-7 RUGGEDIZED OPERATOR CONTROL UNIT – 7” SCREEN**



The ROCU®-7 (Ruggedized Operator Control Unit – 7” Screen) is a generic, hand-held, operating unit that enables a single operator to control several unmanned systems (land, air or maritime) with one device. Windows 7 based, the ROCU®-7 provides complete operational and tactical control, overall mission management and enhanced force coordination. Perfect for military, law enforcement, and public safety units, the ROCU®-7 helps to create certainty in a place of uncertainty.

Specific to the ROCU®-7, multiple rockers and joysticks were added to effectively manipulate any unmanned system, whether it be our intuitive platforms or other complex systems, with exact precision. The ROCU®-7 was designed according to Military Standards while catering to the needs of ground forces around the world. Closing the operator-to-mission gap, the ROCU®-7 is a reliable means for completing the mission from a safe distance.

Whether it be an unmanned aerial vehicle or a route clearing robot, the ROCU®-7 puts the control in your hands.

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Main Applications

- Generic Controller for Land, Air or Maritime Systems
- Mission Management and Full Situational Awareness for Tactical Intelligence
- Real Time Feed for Enhanced Force Coordination

**SPECIFICATIONS**

- **Windows 7** Based Dual Core 1.6Ghz
- **Weight** - without battery- 1.76kg (3.9 lbs), with battery 2.3 kg (5 lbs)
- **Screen** – 7" ,1024x600, Resistive touch screen, sunlight readable, NVIS compatible
- **Working Time** - 3-6 hours (operation mode dependent)
- **Interfaces** - USB 2.0, Ethernet RJ45, Audio in/out 3.5mm, 2 Joysticks, 8 hard buttons, 4 rockers, RP-TNC jack for audio communication, SMA jack for GPS Antenna
- **MIL STD** - Ruggedized, IP65, Mil Std 14V or 24V Roboteam's replaceable batteries