Specifications

- Operating Range: >800m
- Operating Time: 8-12 hrs between recharges
- Vehicle Speed: up to 7 mph
- Ammunition Capacity: 420 rds 7.62 mm, 4 rds 40 mm
- Turret Speed: Up to 155 deg/sec
- Turret Range: 360 deg continuous rotation, -20 deg/+60 deg tilt
- Vehicle Weight: 369 lbs
- Vehicle Dimensions: 37” l x 25” w x 36” h
- Maximum Angles:
  ~ Incline: 42 deg
  ~ Side: 37 deg
- Maximum Payload: 1500in/lbs of torque, capable of pulling >300lbs
- MIL-STD Compliance: 331C,464,461,810F

Camera Performance:

- Drive Cameras, Front and Rear: 450 lines of resolution, 95deg FOV, day/night IR
- Daytime Gunnery Camera: 26X Optical Zoom, 12X digital Zoom (312X total)
- Thermal Gunnery Camera: 640 x 480 resolution, 47 deg FOV, 4X Digital Zoom
- Pan/Tilt/Zoom Camera:
  - Day Camera: 12X Digital Zoom, 75deg FOV
  - Thermal Camera: 320 x 240 resolution, 36 deg FOV, 2X Digital Zoom

A Squad Leader directs his Marine where to employ MAARS on the battlefield.
QinetiQ North America’s MAARS® robot allows the warfighter to project full Escalation of Force (EOF) capabilities from a covered and concealed location. From base security to point man on a patrol, MAARS is your combat multiplying solution.

**Full Escalation of Force**

Powerful, modular and combat ready, the MAARS from QinetiQ North America is an unmanned ground vehicle (UGV) designed for reconnaissance, surveillance and target acquisition (RSTA) as well as Force Protection missions to increase the security of personnel manning forward locations.

MAARS can be positioned in remote areas where personnel are currently unable to monitor their security. Utilizing the suite of security sensors on MAARS, the small unit can achieve early warning of potential threats and immediately engage if necessary.

Utilized for perimeter security of a combat outpost (COP) or forward operating base (FOB), MAARS is essentially an extension of the operator with the ability to continuously project full EOF capabilities. This can be accomplished without exposing the operator or other base security elements to enemy fire.

With the operator always in control of the MAARS robot, safety is achieved through fail-safe actuators and a dedicated Wireless Power Interrupt System (WPIS) button located on the hand controller. With one press of the WPIS button, power to the robot is shut off. This renders the robot and weapon systems static and safe until, when desired, the operator releases the WPIS button.

Gunnery Cameras – Daytime and thermal 26x1 zoom cameras allow for targeting during day or night operations.

Green Laser Warning Device – Non-lethal Warning Device emits four green lasers, warning and dazzling a potential threat.

Grenade Launcher – Individually selectable, quad M203 tubes utilize any military inventory low velocity, 40mm round. This allows a warfighter to engage with a less than lethal round from one tube or a HE round from another.

Two Way Hailer – Provides two-way, audible communications and siren through a 120dB amplifier.

Laser Range Finder – Target distance information feeds into ballistic solution of the gun for ultra accurate targeting.

Radios – CREW compliant, dedicated video, C2 and E-Stop radios allow for remote control from over 1km away.

Machine Gun – Primary weapon is a M240 machine gun that is secured in the MAARS weapon cradle without any modification.

Gunnery Cameras – Daytime and thermal 26x1 zoom cameras allow for targeting during day or night operations.

Machine Gun – Primary weapon is a M240 machine gun that is secured in the MAARS weapon cradle without any modification.

MAARS can be operated from over 800 meters away using either the wearable, Tactical Robotic Controller™ or a Toughbook Laptop Controller. Both controllers allow piping of video feed to a TV for observation in a Tactical Operations Center.