

MAARS®

Modular Advanced Armed Robotic System

Powerful. Weaponized. Field Proven.

Modular and combat-ready, Modular Advanced Armed Robotic System (MAARS®) is a powerful, unmanned ground robot designed specifically for reconnaissance, surveillance and target acquisition (RSTA) missions. MAARS provides safety and security to warfighters manning forward locations.

Support for Warfighters:

MAARS keeps warfighters at a safe distance from enemy fire while effectively executing security missions such as ambushes, hostage rescue, forced entry, booby-trapped areas, detainee riots, site security and IED.

Remote placement of RSTA sensors into critical locations can be made up to several kilometers away, signaling threats and enabling an immediate response if required. Positioned in areas where personnel are unable to monitor security, MAARS can carry either a direct or indirect fire weapon system.

Safe and Simple Operation

Equipped with multiple safety features, MAARS is operational only when receiving coded instructions from its operator. MAARS offers multiple options for the escalation of force when required by the Rules of Engagement (ROE). From non-lethal lasers dazzlers and audio deterrents, to less-than-lethal grenades, to lethal fires from a grenade launcher or machine gun, MAARS provides all-around support for warfighters.



FEATURES/BENEFITS

- Active force projection
- Field proven
- Hostile fire and localization system
- Force application features
- Simple operation
- Day and night cameras
- Motion detectors
- Acoustical microphone
- Loud speaker with siren
- Multiple safety features
- Power management

MAARS[®]

Modular Advanced Armed Robotic System

Powerful. Modular. Ready.



Specifications

- Operating weight: up to 370 lbs when all sensors, weapons and ammunition are carried
- Operating Range: Over 1 kilometer from operator
- Turret-mounted sensors and optional weapons
- Large payload bay for additional capabilities
- Maximum speed: 7 MPH
- Power: Batteries last 8-12 hours based upon mission activities, with integrated sleep mode to save battery power lasting up to one week.
- Controls: Wearable tactical robot control system
- Unibody frame with easy battery and electronics accessibility

Multiple options for the escalation of force when required by the ROE

Non-Lethal

- Audio deterrent (operator's voice through on-board loudspeakers)
- Pre-recorded messages
- Siren
- Eye-safe lasers to disorient and confuse

Less-Lethal

- 40mm Grenade Launcher with the following grenade capabilities:
- 40mm Sponge
 - 40mm Buckshot
 - 40mm Tear gas
 - 40mm Smoke
 - 40mm Star clusters
 - 40mm Illumination

Lethal

- 40mm Grenade Launcher with the following grenade capabilities:
- 40mm High Explosive (HE)
 - 40mm High Explosive Dual Purpose (HEDP)
 - 40mm Airburst HE
 - M240B Medium machine gun with 450 rounds, 7.62mm ball

Remotely controlled by a lightweight, easy-to-use Tactical Robotic Controller, the operator can see what MAARS sees.

FOR MORE INFORMATION

QinetiQ North America
 350 Second Ave
 Waltham, MA USA
 T: 1-781-684-4000
 Robots@QinetiQ-NA.com
 QinetiQ-NA.com