



# MAARS®

Modular Advanced Armed Robotic System

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 Soldiers manning forward locations.

### Support for Warfighters

MAARS® keeps Soldiers 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.

### 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.

### Key Features and Benefits

- Active force projection
- Field proven
- Hostile fire and localization system
- Simple operation
- Day and night cameras
- Motion detectors
- Acoustical microphone
- Loud speaker with siren
- Multiple safety features
- Power management
- Provides safe stand off
- Protects Soldiers/Warfighters
- Saves lives

## Specifications

<b>Operating weight</b>	Up to 370 lbs/167 kg when all sensors, weapons and ammunition are carried
<b>Operating Range</b>	Over 3,280 ft/1 km from operator
	Turret-mounted sensors and optional weapons
	Large payload bay for additional capabilities
<b>Maximum speed</b>	7 MPH/1.5 kph
<b>Power</b>	Batteries last 8-12 hours based upon mission activities, with integrated sleep mode to save battery power lasting up to one week
<b>Controls</b>	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

<b>Non-Lethal</b>	Audio deterrent (operator's voice through-board loudspeakers) Pre-recorded messages Siren Eye-safe lasers to disorient and confuse
<b>Less-Lethal</b>	40mm Grenade Launcher with the following grenade capabilities: 40mm Sponge 40mm Buckshot 40mm Tear gas 40mm Smoke 40mm Star clusters 40mm Illumination
<b>Lethal</b>	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



## Collaborating with QinetiQ Inc.

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

[www.QinetiQ.com](http://www.QinetiQ.com)

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## For further information please contact:

350 Second Avenue  
Waltham, MA USA  
+1 781 684 4000  
[Robots@US.QinetiQ.com](mailto:Robots@US.QinetiQ.com)