



Mobile Detection Assessment Response System

MDARS

Description

The MDARS consists of a remote command and control station and mobile, robotic security vehicles (patrol units) hosting a variety of monitoring applications. It is designed to operate in general storage yards; depots; arms, ammunition, and explosives (AA&E) storage areas; air fields; rail yards; and port facilities. Autonomously conducts: surveillance activities checking for intruders; remote investigation of an alarm source; lock interrogations; and assessments of facility barriers (i.e., doors of AA&E storage bunkers).

Mission

The MDARS mission is to conduct semi-autonomous random patrols, and surveillance activities, including barrier assessment and theft detection functions. MDARS is designed to relieve personnel of the repetitive and precarious task of patrolling designated high security areas.

Capabilities

- Command and control of eight patrol units in motion.
- System-generated, preprogrammed patrol paths or stationary surveillance with designated areas.
- Minimum response speed of 20 kph (12 mph).
- 360° intrusion detection capability and assessment out to 100m with 95% Pd.
- Video monitoring/assessment through normal, low light and starlight conditions.
- Product/barrier assessment at 20m range – Line of Sight.
- Continuous operation for 12 hours.
- Scanning radar and forward-looking infrared for intruder detection.
- Stereo vision and laser scanners for obstacle avoidance.
- Hosting/supporting/carrying 150 pound supplemental payload packages.



Users

US Army

Status

Production and Deployment

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