EJDER

UNMANNED GROUND VEHICLE

EJDER is an Unmanned Ground Vehicle which is capable of carrying payload and used for reconnaissance, surveillance and intervention missions in caves, urbanized terrains, multistorey buildings and plains, during daylight and nighttime.

• **SPECIAL FORCES** • **LAW ENFORCEMENT FORCES** • **COMMANDO UNITS**

and other military units.

esetron
smart robotechnologies

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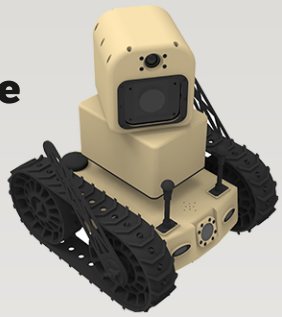
Unmanned Ground Vehicle
EJDER
Features



With the onboard camera unit integrated in its chassis, the vehicle provides an indoor and outdoor surveillance around-the-clock.

In addition to capability of travelling on any kind of territories with wheeled or tracked options; it also has a fording depth of 10 cm.

Being by the operator's side both in-building and outside operations, EJDER has the ability to climb 17 cm stairs and obstacles with the help of the attached manipulator arms.

EJDER is capable of maneuvering in limited, tiny and hard-to-reach areas; and provides intelligence to the operator via real time visual, auditory and sensor feedback from these kinds of areas.

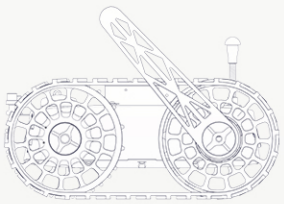
EJDER is used with Remote Control Unit, with an operating range up to 600 meters (LOS).

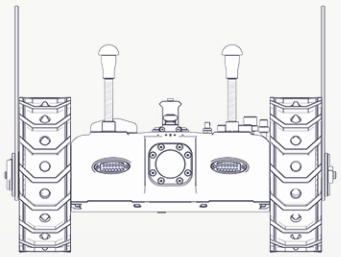
With the help of GPS connection, EJDER can autonomously return to a saved "home" area or directly to Remote Control Unit location.

Thanks to its LED and IR illuminator, EJDER allows better camera vision in dark environments.

EJDER allows audio surveillance by transferring the sound captured by onboard microphone to Remote Control Unit. It is also capable of transferring sound from Remote Control Unit to UGV.

A user-friendly mechanical joint interface is located on top of EJDER. By using this interface, the operator can easily attach different payloads to the UGV.





Payloads

Advanced PTZ Module:
This module can perform 360° endless pan and 12x optical zoom. It has 8-12µm thermal camera with 640x480 resolution and HD color camera.

Mapping Module:
It provides a three-dimensional map of the explored environment with 3D Lidar.

IED Detection Module:
This unit is used to detect possible IED and booby traps.

Small Arm Module:
It is a module that can be mounted with a 9 mm gun, which allows target identification and effective shooting with its built-in camera.

Payload Transport Module:
With this module, explosive ammunition can be transported and released to the desired area by lighting the timed fuse or by electrical triggering.

Dimensions (Length x Width x Height)	34x33x15 cm
Weight	5500 g
Speed	5 km/h
Incline Climbing	%60 (Vertical) - %30 (Horizontal)
Obstacle Climbing	17 cm
Stair Climbing Ability	Applicable
Camera	Front and Rear Color Camera
Camera Angle of View	110° Horizontal – 90° Vertical
Lighting	Front/Rear LED and IR
Sound Transfer	Bidirectional
LOS Communication Distance	600+ meters
NLOS Communication Distance	150+ meters
Operation Time	In Travel Mode: 3 hours In Surveillance Mode: 5 hours
Charging Time	2 hours
Maximum Height of Drop	6 meters (Vertical) – 15 meters (Horizontal)
Return Home Function	Applicable
3D Mapping	Applicable
Operating Temperature	(-20° C) – (+50° C)
Storage Temperature	(-30° C) – (+60° C)
IP Rating	IP 65
Military Standards	MIL-STD-810G Method 501.5 Procedure I MIL-STD-810G Method 501.5 Procedure II MIL-STD-810G Method 502.5 Procedure I MIL-STD-810G Method 502.5 Procedure II MIL-STD-810G Method 506.5 Procedure I MIL-STD-810G Method 510.5 Procedure I MIL-STD-810G Method 512.5 Procedure I MIL-STD-810G Method 514.6 Procedure I MIL-STD-810G Method 516.6 Procedure I