

GUARDIAN 2.0 LAND RWS (REMOTE WEAPON STATION)



# GUARDIAN 2.0

## DEFENSE DIVISION

GUARDIAN 2.0 is a Remote Control Weapon Station (RWS) for 12.7 mm that can be adapted for 5.56mm and 7.62 mm cannons and is lightweight and compact. The system is 2 axes gyro-stabilized and operates day and night for combat, surveillance, target identification and tracking missions.

Specially designed to be integrated in a wide range of platforms and vehicles, this system provides defence capabilities for short and medium ranges with high firing accuracy being a reliable solution against asymmetric threats.

### FUNCTIONALITY

- Independent LOS (Line of sight) from LOF (Line of fire).
- Fire inhibition.
- Gyro stabilization for enhanced firing accuracy.

### ADAPTABILITY

- Adapted to different configurations, platforms and weapons.

### MAINTENANCE

- Modular architecture.
- Low maintenance.
- Built-In Test.

### EXTENDED RANGE

- Operator target identification over 3 km.

### COSTUMIZED CONFIGURATION

- Integrating a cooled or uncooled camera to meet different requirements.
- Armoured protection (Level II).

### INTERFACE

- Full screen mode.
- Transparent iconography.
- Control panel with joysticks and extended functionality.

## TECHNICAL DATA

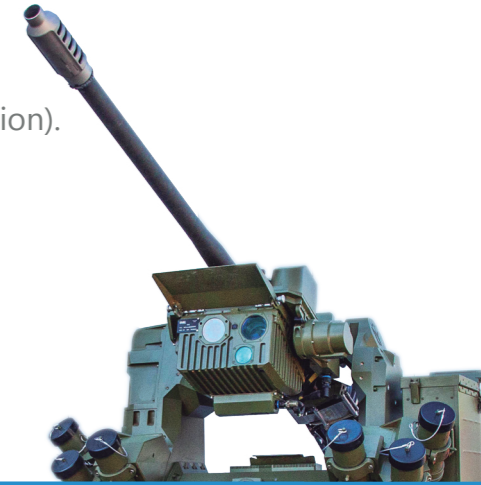
## WEAPON STATION

### WS Platform

**Mounting type:** 2 axes stabilized station.  
**Type:** Independent Pan and Tilt platform.  
**Weapon:** Standard configuration with 12.7 mm (M2) and Grenade launcher (MK19).  
 Optional Gun carriage adapter for 5.56 mm (MG4) 762 mm (MG3) Gatling DILLON M134D and Smoke launcher (40, 76, 80 mm).  
**Gun Elevation Angle:** -20° to 60°  
**Gun Bearing Angle:** Nx360°  
**Stabilization level:** < 0,5 mrad  
**Weight:** < 180 kg (without weapons/ammunition).  
 30kg Control and command subsystem inside of the vehicle.

### Other Features

Inhibit zones programmable for safe operation.  
 GPS.  
 Able of exchange data with an external C4I.  
 Embedded Simulator for training.  
 Ballistic calculator.  
 Automatic video tracker.  
 Integration of external sensors.



## ELECTRO OPTICAL SYSTEM

### Uncooled IR camera (EOS-U):

- Array of microbolometers.
- LWIR detector.
- 640 x 480 or 1024 x 768 pixels of 17µm.
- NFOV/WFOV (4°/12°) (VGA).
- NFOV/WFOV (6,4°/19.2°).

### Cooled IR camera (EOS-M):

- InSb 640 x 512.
- 3rd Generation MWIR detector.
- 15 µm Pitch.
- Continuous zoom 8X. 2.2° to 17.6°.

### CCD camera:

- High Definition.
- Continuous Zoom of 20x.
- Field 1.8° to 36°.

### Laser Range Finder (LRF)

- Eye safe 1.54 µm.
- Accuracy ± 5m.
- Maximum range: 8000 m.
- Programmable frequency 1Hz - 10Hz.
- Optional Laser Pointer.

| Ranges         | EOS-M    | EOS-U    | CCD     |
|----------------|----------|----------|---------|
| Detection      | ≥ 13 km  | ≥ 6 km   | ≥ 13 km |
| Recognition    | ≥ 6.2 km | ≥ 3 km   | ≥ 8 km  |
| Identification | ≥ 3 km   | ≥ 1.6 km | ≥ 5 km  |

NATO Target of 2,3m x 2,3m

\*Gyro-stabilized & modular platform with 2 IR cameras available

