



SENTINEL 30

DEFENSE DIVISION

SENTINEL 30 is a gyro-stabilized remotely controlled weapon station for 30 and 40 mm cannon that operates during day & night for combat and surveillance missions.

SENTINEL 30 is designed to be mounted in Naval Platforms (such as Patrol Boats, Vessels, Combat ships or Coast Guard Boats) incorporating an advanced fire control system allowing to get high shooting accuracy for long distances. It can be fed by two separate ammunition lines, selected by the operator.

It incorporates an electro-optical system for observation and tracking operations and an embedded simulation system for training operations remotely controlled from a control panel keeping always the operator protected by the vessel's structure.

OPERATION MODES

- Combat mode.
- Observation mode.
- Training mode.
- Maintenance mode.

OPERATION

- Single shot, burst and continuous shot.
- Improve firing control system.
- Manual Operation as a back-up mode.
- Automatic Ballistic Calculator.
- Automatic Target Detection and tracking.

SECURITY

- Firing and movement inhibition integrated in the Gunner Control Panel.
- Easy Installation.
- Surveillance Mode without aiming the gun.

TECHNICAL DATA

WEAPON STATION

WS Platform

Mounting type: 2 axes stabilized system
Type: Independent Pan and Tilt platform
Weapon: 30 mm mk44 (Bushmaster II)
Speed: 1 rad/s azimuth y 1 rad/s elevation
Gun Elevation Angle: -20° to 60°
Gun Bearing Angle: Nx360°
Pointing accuracy: < 1,5 mrad
Stabilization level: < 1 mrad
Weight: 1200 kg (without weapon neither ammunition)

Ammunition

Type: 30 mm NATO
Rate of fire: 200 rounds/min
Feeding: DUAL
Storage: 2 x 100 pcs

ELECTRO OPTICAL SYSTEM

EO Platform

EO elevation angle: -60° + 60°
EO bearing angle: nx360°
EO angular speed: 90 °/s
Aiming accuracy < 0.5 mrad
EO Stabilization < 0.1 mrad

Thermal Camera

Type: cooled IR.
Spectral Range: 3,0-5,0 μm.
Detector: 640x512 pixels FPA.
Zoom: Continuous optical zoom x8. Zoom digital x4.
Performance (NATO Standard target): 12.000 m detection, > 5.700 m recognition y > 3.800 m identification.

HD Day Camera

Type: High resolution colour CCD (Charge Coupled Device).
Video output: Digital HD-SDI.
Zoom: continuous optical zoom x20. Zoom digital x12.
Performance (NATO Standard target): 12.000 m detection, > 5.000 m. recognition, > 2.500 m identification.

Laser Range Finder (LRF)

Type: Eye-safe.
Wave length: 1,55 μm.
Accuracy: ± 1m to 6.400m.
Range: 8 km.

