



SLD 400

LASER SNIPER DETECTOR

OPERATION CONCEPT

The SLD 400 sniper detector is a new concept using particular laser application.

Designed to detect and locate optical scopes used by snipers or optronic sight systems on the battlefield, sensitive areas or urban zone, it is based on the « cat eye » effect: when illuminated by a laser beam, an optical system returns some back-scattered energy.

The highly accurate threat localisation capability of the SLD 400 is compatible with the performances of the associated weapon or fire control system. It can be fitted on a fixed mount, on a tripod or on a static vehicle.

DESCRIPTION

The SLD 400 consists in three major sub-assemblies:

- The optronic sensor head includes:
 - A wide angle coded laser beam that illuminates the sector to be searched.
 - A high-tech receiver featuring low light amplifier; it detects the low-level energy reflected by an optic.
- The pan & tilt turret moves the optronic sensor head in azimuth and elevation for scanning the suspected area.
- The remote control unit monitors the optronic sensor head and displays the image of the scenery on an observation screen.

The basic SLD 400 system is man transportable equipment. Its typical detection range is 1,000 m (daytime) to 3,000 m (nighttime).

APPLICATIONS

The SLD 400 is designed for:

- stand-by detection of pointed optics, often associated with an immediate threat (i.e. snipers),
- active scanning and monitoring of specific areas or contours.

Here are some applications of the SLD 400:

- The SLD 400 increases drastically the safety of peacekeeping forces. It detects snipers equipped with shooting telescope or night vision intensifier.
- By detecting the sight(s) of the hostile vehicles, the SLD 400 provides better control of the battlefield by the Armed Forces.
- The SLD 400 brings a significant improvement of the shooting accuracy during the operations carried out by Special units.
- Increases VIP's protection: detection and neutralisation of an aggressor equipped with highly accurate rifle scope is the permanent commitment of the Security Services.

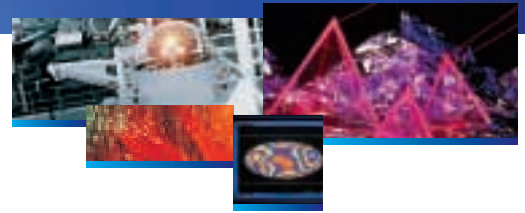


FAST DETECTION

**QUICK LOCK
ON SNIPERS**

MULTI MISSIONS

COMBAT PROVEN



SLD 400



OPERATIONAL CHARACTERISTICS

AZIMUTH AND ELEVATION:

- - 175° to + 175° in azimuth
- +/- 20° in elevation

DETECTION WINDOW:

- 3,9° x 5,3°

SCANNING AND DETECTION:

- Manual by joystick
- Video output
- Automatic, programmable by zones or contours
- Echo image storage

PHYSICAL CHARACTERISTICS

MECHANICAL

Sensor head

- Size: 140 x 340 x 260 mm

Turret

- Size: 285 x 300 x 240 mm

Remote Control Unit

- Size: 220 x 600 x 500 mm

ELECTRICAL

Mains (MIL STD 1275 A)

24 V battery (option)

CONSUMPTION

Sensor head

- 35 W (ambient temperature)
- 85 W (extreme temperature)

Remote Control Unit

- 45 W average (70 W peak)

Turret

- 40 W (5°/s scanning speed)
- 110 W (maximum speed)

COMMUNICATION

RS 232 serial link

ENVIRONMENTAL CONDITIONS

Sensor head and turret

- Operating temperature: - 20° C to + 55° C
- Storage temperature: - 25° C to + 60° C

Remote control unit

- Operating temperature: - 10° C to + 50° C
- Storage temperature: - 15° C to + 50° C

OPTIONS

Interface with other detectors and surveillance systems (infrared or thermal camera, acoustic detector, etc). Custom design for the integration in sights, Multiple Sensor Heads network connected to a Security Center.

STATUS

Mass production.