

LDWS-1

Laser detector and warning system

LDWS-1 is a device used for detecting laser irradiation. The system is designed to activate an alarm (with audio and visual feedback), and, if requested, other countermeasures, when it detects that the vehicle it was mounted on has been marked by various types of lasers including laser range finders, laser designators and laser beam riders. The system consists of a central detection unit, tasked with capturing both direct and indirect rays, and an interior unit used for displaying the direction, intensity and type of said laser irradiation.

TECHNICAL CHARACTERISTICS :

Direct laser detection

- Wavelength range 0,4-1,6 μm
- Number of receivers 10
- Horizontal field of view $10 \times 36^\circ = 360^\circ$
- Vertical field of view -20° to $+60^\circ$

Indirect laser detection

- Wavelength range 0,4-1,6 μm
- Number of receivers 1
- Horizontal field of view 360°
- Vertical field of view -7° to -13°

Dimensions and weight

- Detector head 120x190 mm, 2,1 kg
- Display 220x120x150 mm, 1,5 kg
- Mounting pole 55x55x150 mm, 0,9 kg
- Cables 3x, 0,9 kg

Display unit

- Horizontal angle resolution $10 \times 36^\circ$ LED
- Numerical display resolution 1°
- Laser rangefinder Laser rangefinder
- Irradiation source Laser designator/illuminator
Laser guided missiles
- Memory 20 newest readings
- Digital outputs for activation Alarm/countermeasures
- Operating temperature -30°C to $+55^\circ\text{C}$
- Power supply and consumption 24 VDC/0,6 A or 12VDC/1,2A

