

# ★ LD-1 Laser Detector



## NSN in the process of being assigned

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The laser detector is a personal portable tool for detecting exposure of users by laser devices of the enemy and notifying them with sound and light alarm about the fact of illumination, the type of laser device and the approximate direction towards the irradiation source.

The laser detector is adapted to operate in harsh operating conditions.

## Purpose Of Use

- Detects laser light by laser guidance facilities of the enemy.
- Determines the approximate direction towards the laser source: front, right, left.
- Alerting the user with sound, light, and vibration alarm about the irradiation and the approximate direction to the radiation source.

## Application

- The LD-1 laser detector is a personal informing warning means; it can be attached to a helmet or other elements of the user's clothing or installed on a tripod.
- Sound and light alarms are triggered when the user is exposed to laser devices.

## Features

- The laser detector works in the spectral range of laser devices (rangefinders, target seekers, illuminators, etc.) that are in service with the Russian Federation and its partner countries.
- The laser detector functions under a 3 V – 4.2 V power supply from an 18650 type battery with a minimum capacity of 3000 mAh.
- The device suggests an option to transmit threat information via Bluetooth to compatible devices.
- The LD-1 meets the requirements of group 1.14 in accordance with GOST B 20.57.304 standard, climatic performance UKhL (regions with a moderate and cold climate) in accordance with GOST 15150 in terms of resistance to the influence of climatic and other factors of the environment.

## Delivery Kit

- Laser detector LD-1 – 1 pc.
- 18650 type battery – 2 pcs.
- USB battery charger – 1 pc. (as requested)
- Passport
- Operating manual

## ★ LD-1 Laser Detector

Specifications	
Spectral wavelength range of the laser detector	0.6 ... 1.7 $\mu\text{m}$
Field of view: <ul style="list-style-type: none"><li>• horizontal</li><li>• vertical</li></ul>	210° 120°
Resolution of direction determination to the laser radiation source in the horizontal plane	in the central zone (30 $\pm$ 5)°, in the side sectors (90 $\pm$ 5)°
Operating irradiation detection range with laser pulses of the detector's input windows	3 $\cdot$ 10 <sup>-9</sup> ... 3 $\cdot$ 10 <sup>-5</sup> J/cm <sup>2</sup>
Warm-up time of the item after switching on	1 s
Operating temperature range	-25 ... +55 °C
Power consumption from the battery	1 W
Dimensions of the laser detector – maximum	90 × 60 × 50 mm
Weight of the laser detector (without battery) – maximum	0.2 kg