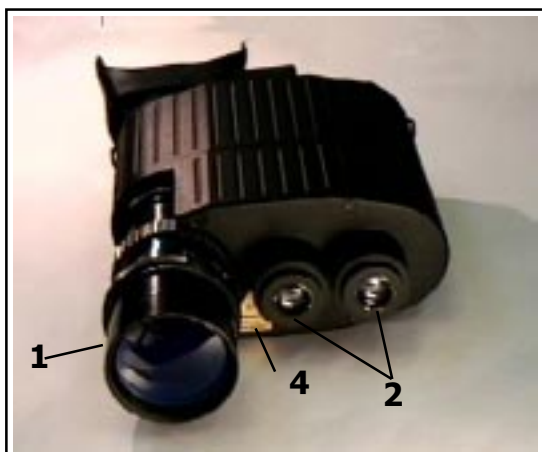


# SL-210M

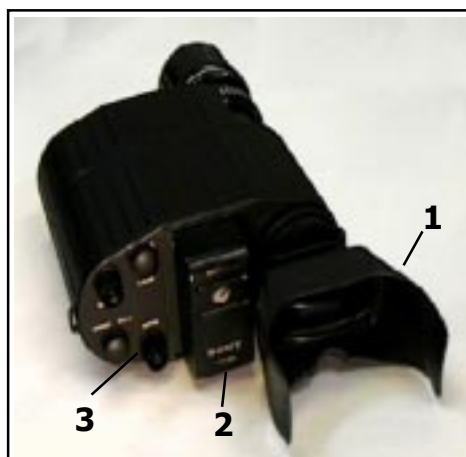
## RANGE GATED NIGHT VISION SYSTEM

### Brief description



**Fig. 1. Front view**

- 1 - objective lens**
- 2 - lasers**
- 3 - laser radiation warning label**



**Fig. 2. Rear view**

- 1 - panoramic eyepiece**
- 2 - battery pack**
- 3 - control panel**

## Technical specifications

Field of view .....	7°
Power supply voltage .....	6V
Maximum consumption current under the maximum load .....	2.0 A.
Power supply elements .....	1 standard Sony VCR battery pack (NP-68 type; 6 V; 1800 mAh)
Optical magnification .....	2 or 3 X (depending on the type of the image intensifier used)
Dimensions without rubber eyeshield and lens cap, mm .....	350(L) x 220(W) x 115(H)
Weight with the battery .....	3.9 kg.
Number of lasers .....	2
Laser wavelength .....	0.8 ÷ 0.85 μm
Total laser power irradiated .....	0.360 W
Minimum depth of the visibility zone at the range gated mode of operation .....	25 m
Time of continuous operation at 20° with a 6V 1800 mAh battery with the lasers switched on .....	40 minutes

## Main parts and functions

### Objective lens

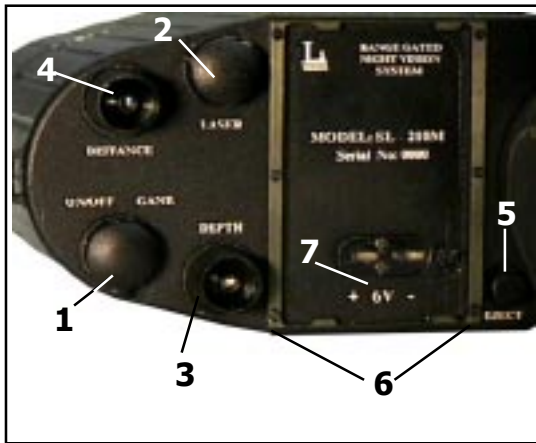
- Focal length - 110 mm.
- Relative aperture - 1:1.77.
- Controlled iris.
- Adjustable focus.

### Eyepiece

Panoramic eyepiece allows for a comfortable viewing by both eyes. A rubber eye shield fits tightly to the observer's face during the observation thus making the observation hidden because it protects the light coming to observer eye against being diffused.

### Control panel

The control elements are arranged on the control panel of the system next to the eyepiece and battery mount providing an easy access to all knobs and buttons.



**Fig.3.** Control panel with the battery unloaded

- 1 - ON/OFF...GAIN knob
- 2 - LASER knob
- 3 - DEPTH knob
- 4 - DISTANCE knob
- 5 - EJECT push button
- 6 - battery mounting bracket
- 7 - battery load polarity layout



**Fig. 4.** Control panel with the battery loaded

- 1 - battery pack

### 1 Knob GAIN

While rotating the knob clockwise a click is heard. That means that the system is switched on and operates in a passive mode like an ordinary night vision device. Further rotation of the knob clockwise increases the gain of the image intensifier smoothly.

### 2 Knob LASER

When rotating the knob clockwise a click is heard. That means that both lasers are activated. The system operates in an active mode like a night vision device which uses additional IR laser illumination. Further rotation of the knob clockwise brings the system from the active to the pulsed mode of operation. When the knob is set into its extreme position, the system operated in the pulsed mode.

### 3 Knob DEPTH

The knob controls the depth of the visibility zone. Clockwise rotation of the knob reduces the depth smoothly.

#### **4 Knob DISTANCE**

The knob serves to control the distance to the nearest edge to the visibility zone. Clockwise rotation of the knob increases the distance smoothly.

#### **5 EJECT push button**

Serves to fix the battery on the housing.

Hold the button down while loading/unloading the battery.

### **Safety precautions**

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We don't recommend to look directly at the light of lasers in operation by a naked eye from a short distance, less than 5 meters.



**Fig. 5.** *Side view*