

APRESYS Long-distance Laser Rangefinder LRB20000

The long-distance laser rangefinder with binoculars is designed and manufactured by military standards, it is used for measurement and observation of single target; maximum measuring distance may up to 20 km; military product, with super performance and high environmental adaptability. At present it is the standard equipment in Canadian and Russian army. It has found use in various military action, counter-terrorism operations, geological survey, engineering rescue, coastal navigation, meteorology, etc.



Specifications

Minimum measuring range: no more than 50 m;

Maximum measuring range: no less than 19990 m (In good weather conditions, telescope system in rangefinder can identify the target more clearly, on buildings, mountains, etc.);

Measurement accuracy: ± 3 m;

Angular resolution: no more than 1.3 mrad;

Wavelength: 1.06 μm ;

Laser power: no less than 12 mJ;

Beam divergence angle: no more than 1 mrad;

Frequency: 5 times/min, continuous work; in case of emergency 10 times/min, measured 2 minutes with 1 minute rest, able to work continuously;

Measurement precision: no less than 98%.

Optical properties of target channel

Magnification: 8x;

Field of view: 7° ;

Exit pupil diameter: 8.75 mm;

Eye relief: 15 mm;

Resolution: 8 s;

Assembly errors of diopter: no more than ± 0.5 diopter;

Diopter adjustment range: -5~+5 diopter.

Main function

Main function of the laser rangefinder is as follows:

- ◆ targeting;
- ◆ measuring target distance;
- ◆ display target distance;
- ◆ transmit the distance information to the host device.

Physical properties

Size: 260mm×220mm×100mm;

Weight: 2.0 kg.

Environmental adaptability

Operating temperature: -40~50° C;

Storage temperature: -55~68° C;

Relative humidity: 95%~98%.

Power supply

Power: with rechargeable lithium battery 11.1 V inside, when battery is fully charged, the distance measurement is no less than 300 times under temperature ($25\pm 5^\circ\text{C}$). With external power supply DC 12V can also be used.

Data interface: RS422.

Packing list: host device for 1 pc, maintenance manual, test report, product certificate, control cable, data line, dry cabinet.