

Laser Range Target Indicator 40mJ

PRODUCT DESCRIPTION

The laser range finder target indicator is used to cooperate with DYT field target strike test, as target indicator. It can provide fast and accurate target for DYT, and can provide the straight line distance parameter of the target. Compared with similar products, this product is small in size, light in weight and easy to carry. The irradiator adopts miniaturization OEM design, which can be applied to various sizes of photoelectric pod, and can provide portable or land-based version with human eye sight & OLED display. The unique light source design realizes high pulse energy laser output under the extremely small structure size, and the initial laser divergence angle is 50% smaller than that of conventional products. The laser range finder includes: laser light source & driver, ranging module,

optional sighting system and control module.



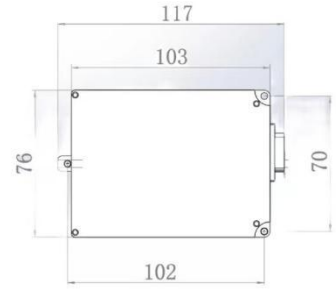
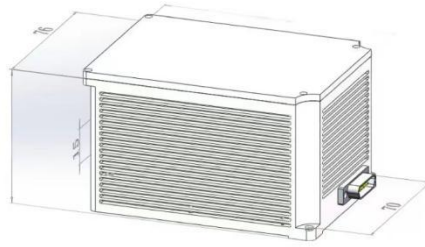
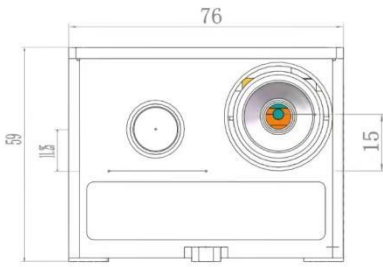
MAIN FUNCTIONS

- Target guidance
- Target distance measurement
- Control mode: panel key control and serial control

TECHNICAL PARAMETERS

Laser wavelength	1064nm±1nm
Single pulse energy	≥40mJ (OEM according to customer) 15ns±5ns
Single pulse width	0.2~0.9mrad (OEM for customer)
Divergence angle	≥95%
Stability of pulse energy	1~25Hz (adjustable) (OEM for customer)
Repetition frequency	≥4500 m (OEM for customer)
Irradiation distance	1~10Hz (OEM for customer)
Ranging frequency	≥150~4500m (OEM for customer) ±2m
Ranging distance	Single maximum working time 60s, interval 60s; can work 8 cycles.
Ranging accuracy	DC 24V(24-30V) internal and external trigger
Accuracy	Support accurate frequency code, time code or pseudo-random code
Working cycle	≥40mJ (OEM according to customer) 15ns±5ns
Power supply	0.2~0.9mrad (OEM for customer)
Trigger mode	≥95%
Laser coding	≤1.5us
Coding accuracy	RS422 serial port, external trigger 485 level, TTL
Communication interface	≤117×76×59mm
Dimensions	≤400g
Weight	Blow cooling
Cooling mode	≤10W;
Standby power consumption	≤60W;
Average power consumption	≤120W。
Peak power consumption	-40°C~+60°C
Working temperature	-50°C~+70°C

STRUCTURAL DIMENSIONS



TECHNICAL PARAMETERS

1. Connector requirements

Use J30JM-25ZK and J30JM-25ZJ as power supply and communication interfaces.

2. Connector socket number definition

Interface Definition

Pin	Signal definition	Remarks
1~7	24V+	
14~20	GND	
8	External trigger +	3.3V/TTL
21	External trigger -	
11	RS422 RX+	Serial communication interface
12	RS422 RX-	
9	RS422 TX+	
10	RS422 TX-	
13	GND	Signal ground
24		
25		