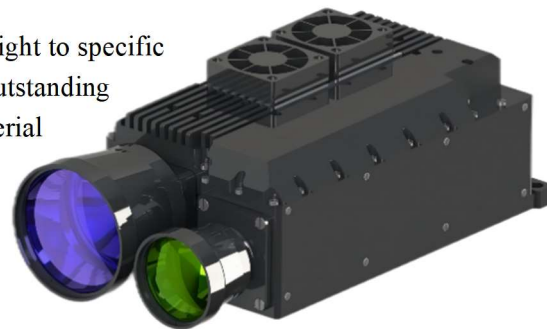


1064nm LASER TARGET DESIGNATOR-100mJ

OVERVIEW

This laser target indicator is a precision optoelectronic device that emits laser light to specific targets and calculates distance information based on laser flight time. It boasts outstanding performance and user-friendly operation. It's eye-safe, utilizing serial communication. When used with the laser photometer and DYT field target impact test, it swiftly and accurately indicates targets and measures distances. Compact and lightweight compared to similar products, it features an integrated design comprising a laser light source, ranging module, observation system, and control module



TECHNICAL SPECIFICATIONS

Wavelength	1064nm
Output Energy	Full temperature range: 100mJ~120mJ, Average output energy $\geq 110\text{mJ}$
Adjacent pulse energy fluctuation range	$\leq 8\%$
Beam Divergence Angle	$\leq 0.15\text{mrad}$ (Accepted by the sleeve hole method, the ratio of hole to no-hole is not less than 86.5%)
Beam Pointing Stability	$\leq 0.03\text{mrad}$ (1σ)
Irradiation Frequency	Precisely coded from 45ms to 56ms (checksum 20Hz)
Pulse Period Accuracy	$\leq \pm 2.5\mu\text{s}$
Pulse Width	$15\text{ns} \pm 5\text{ns}$
Irradiation Time	Not less than 90s, interval 60s, or not less than 60s, interval 30s, continuous irradiation for 4 cycles at room temperature and low temperature, and 2 cycles at high temperature
Ranging Range	Minimum value not greater than 300m, maximum value not less than 35km (23km visibility, medium atmospheric turbulence, for a $2.3\text{m} \times 2.3\text{m}$ target with a target reflection coefficient greater than 0.2)
Irradiation Distance	Not less than 16km for a $2.3\text{m} \times 2.3\text{m}$ target
Preparation time for powering on at room temperature	< 30 seconds
Preparation time for low-temperature power-on	< 3 minutes
Service Life	≥ 2 million times
Ranging Count Range	200m~40km
Ranging Accuracy	$\pm 2\text{m}$
Accuracy Rate	$\geq 98\%$
Ranging Frequency	1Hz, 5Hz, 10Hz, 20Hz
Installation Reference Plane Non-Parallelism with Laser Emission Optics Axis	$\leq 0.5\text{mrad}$
Installation Reference Plane Flatness	0.01mm (Design guarantee)
Dimensions	$239\text{mm} \times 116\text{mm} \times 81\text{mm}$
Weight	2500g