1064nm LASER TARGET DESIGNATOR-25mJ

OVERVIEW

This advanced laser target indicator serves as a pivotal tool in domains such as military, security, and precision targeting. With remarkable capabilities, including a laser wavelength of 1.064μm, pulse energy exceeding 25mJ, and precise ranging accuracy of ±2m, it excels in guiding and measuring distances. Its applications extend to various sectors, making it the ideal solution for target indication and ranging needs. From its stable laser beam dispersion angle of ≤0.5mrad to its rapid power-on preparation time of ≤3s, this versatile device guarantees top-notch performance, ensuring accurate measurements and target guidance across ranges of over 2km. It is a reliable asset in crucial scenarios where precision and efficiency are

TECHNICAL SPECIFICATIONS

Laser wavelength	1.064μm
Pulse average energy	≥25mJ
Pulse capacity fluctuation	within a cycle, adjacent pulse fluctuation ≤8% (statistics after 2 seconds of light output)
Laser beam dispersion Angle	≤0.5mrad
Laser optical axis stability	≤0.05mrad
Pulse width	≤20ns
Power-on preparation time	≤3s
Ranging frequency	1Hz, 5Hz, single time
Continuous ranging time	5min(1Hz), 1min(5Hz)
5Hz maximum continuous operating time	2min
Minimum range	≤100m
Typical ranging capacity	≥2000m
Ranging accuracy	±2m
Accurate measurement rate	≥ 98%
Ranging logic	first and last target
Irradiation distance	≥2km
Irradiation frequency	fundamental frequency 20Hz
编码 Coding	in line with system requirements; With the ability to customize coding extension
Encoding mode	precise frequency code
Encoding accuracy	≤±2.5μs
Irradiation mode	one irradiation time ≥20s, start irradiation again, interval ≤15s, can be continuously irradiated for 8 cycles
Weight	450g
Size	≤67.4mm×51mm×90mm
Voltage	19.6V ~ 25.2V
Standby power consumption	≤4W
Average power consumption	≤50W
Peak power consumption	≤90W
Working temperature	-40℃ ~ 55℃