



130mJ LASER TARGET DESIGNATOR



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Technical Specifications	
Laser Wave	1.064 μ m
Laser Irradiation Energy	Single pulse energy >130mJ (2 seconds before removal), single pulse energy can be adjusted in 3 gears (80mJ, 100mJ, 130mJ)
Laser Energy Fluctuation	$\leq 8\%$
Laser Beam Divergence	≤ 0.1 mrad
Laser Beam Spatial Pointing Instability	≤ 0.03 mrad(1σ)
Laser Irradiation Frequency	Can be encoded precisely 45ms~56ms(check code 20Hz)
Laser Pulse Cycle Accuracy	$\leq \pm 2.5\mu$ s
Laser Pulse Width	15ns \pm 5ns
Laser Continuous Irradiation Time	One irradiation time is not less than 90s, with an interval of 60s, 4 cycles of continuous irradiation at normal temperature and low temperature, and 2 cycles of continuous irradiation at high temperature
Ranging Range	The minimum value is not more than 300m, and the maximum value is not less than 35km (23km visibility, moderate atmospheric turbulence, for a 2.3m \times 2.3m target, the target reflection coefficient is greater than 0.2)
Power Up Time	The preparation time for power-on at normal temperature is no more than 30 seconds, and the preparation time for power-on at low temperature is no more than 3 minutes
Service Life	≥ 2.6 million times
Ranging Count Range	200m-40km
Accuracy	± 3 m
Ranging Frequency	1Hz,5Hz (default 5Hz)
Laser Continuous Ranging Time	The maximum continuous ranging time of the laser illuminator is not more than 60s
Non-Parallelism Between The Installation Reference Surface And The Laser Emission Optical Axis	≤ 0.5 mrad
Installation Reference Surface Flatness	0.01mm
Insulation Resistance	Under standard atmospheric pressure, insulation resistance $\geq 20M\Omega$, output voltage 100V
Power	The voltage range is DC22V-31V, and the power supply characteristics meet the relevant requirements specified in GJB181B-2012 for electrical equipment
Input Power	Full temperature range: standby power consumption is not more than 10W, average power consumption is not more than 200W, maximum power consumption is not more than 300W
Weight	≤ 3 kg
Environment Temp	-55C +65C