

Vehicle-Laser Target Designator

SKU:LDR1064-C80



This type of laser irradiation light source adopts an integrated design. The system includes: laser light source & driver, distance measuring module, sight and sight system and control module; and equipped with components such as tripod and attenuator.

Main application scenarios: Vehicle or land-based.

Main functions: Target guidance, target distance measurement

MAIN TECHNICAL PARAMETERS

The main parameters of the laser light source

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Laser wavelength	1064nm±1nm
Pumping method	semiconductor side pumped
Repeat frequency	0 ~ 20Hz
Output energy	>80mJ@20Hz
Irradiation distance	≤7km
Q-switching mode	Electro-optic Q-switching
Pulse Width	10ns ~ 20ns
Beam divergence	≧0.5mrad
Pulse Energy Stability	<5%(RMS)
Single working time	≥60s
Powered by	DC 24V±4V
Power	<240W (normal temperature standby current: <2A, working peak current<10A, high and low temperature standby current<3A)
Communication serial port	RS422

External trigger interface	3V differential level drive
Trigger accuracy	$\gt 2\mu\text{s}@20\text{Hz}$
Weight	$\leq 8\text{kg}$
A fixed way	Tripod Bottom Support
Aiming method	Human Eye Aiming & CCD Aiming
Laser ranging parameters	
Ranging mode	0-5Hz ranging
Maximum measuring distance	$>14\text{km}$
Minimum measuring distance	300m
Ranging accuracy	$\pm 3\text{m}$
Environmental adaptability	
Operating temperature	$-40^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Storage temperature	$-45^{\circ}\text{C} \text{---} +65^{\circ}\text{C}$
Shock vibration according to GJB requirements	
Equipment Dimensions	400mm \times 250mm \times 120mm
Control method	Keying and serial control