

20mJ Laser Target Designator

SKU:LDR1064-20



This irradiator adopts a unique light source design, which achieves a laser output of up to 80mj in a very small structure size, and the initial laser divergence angle is 50% smaller than that of conventional products; it adopts a unique temperature control technology, and the standby current is small, which is suitable for battery power supply. The illuminator adopts a special-shaped OEM design and can provide a portable version with human eye sight & OLED display.

MAIN TECHNICAL PARAMETERS

Main parameters of the laser light source

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Laser wavelength	1064nm±1nm
Pumping method	semiconductor side pumped
Repeat frequency	0 ~ 2 0Hz
Output energy	20mJ ~ 100mj@20Hz
Q-switching mode	Electro-optic Q-switching
Pulse Width	10ns ~ 20ns
Beam divergence	∠0.4mrad (other requirements can be customized)
Pulse Energy Stability	<3%(RMS)
Single working time	≥60s
Powered by	DC 24V±4V
Power	<140W (Standby current at room temperature: <1A, working peak current<6A,

	high and low temperature standby current < 1A)
Communication serial port	RS422
Trigger accuracy	$\gt 2\mu\text{s}@20\text{Hz}$
Weight	$\leq 3\text{kg}$
Ranging System Indicators	
Ranging mode	pulse ranging
Ranging frequency	1 ~ 5Hz
Maximum measuring distance	$\gt 8\text{Km}$
Minimum measuring distance	Minimum measuring distance
Ranging accuracy	$\pm 3\text{m}$
Environmental adaptability	
Operating temperature	-40 ~ 60°C
Storage temperature	-55 ~ 85°C
Vibration	X, Y, Z three axes 3g
Shock	X, Y, Z three axes 15g
Product Size	$\leq 20\text{mm}0 \times 160\text{mm} \times 75\text{mm}$