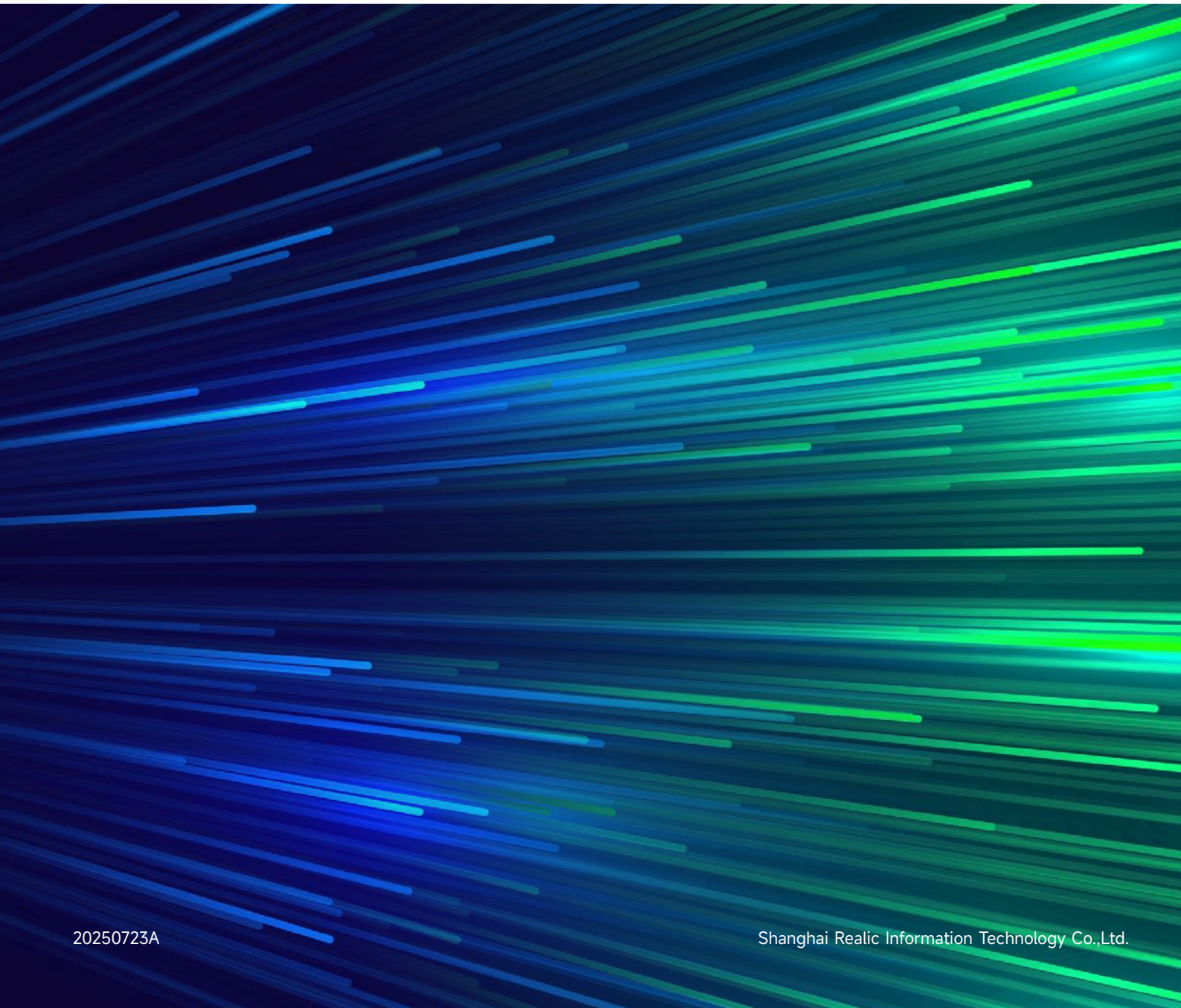
UPOLabs

1550nm

Single Frequency High Energy Pulse Laser

Type：PhaseOptics-1550-E0300-M-PM



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Shanghai Realic Information Technology Co.,Ltd.

1550nm Single Frequency High Energy Pulse Laser

PhaseOptics-1550-E0300-M-PM

The PhaseOptics-1550-E0300-M-PM Laser uses a new optical design to suppress the non-linear effect effectively. It provides output of pulsed single-frequency Laser rays more than 300μj. It provides dual-trigger modes. Customized models are available.

Characteristics and Application Fields

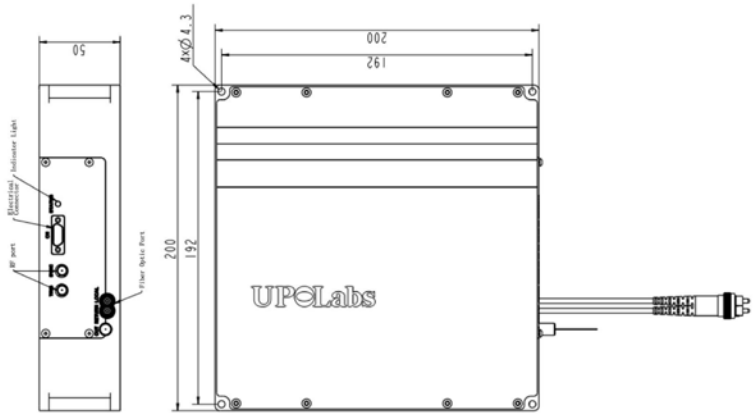
Characteristics

- narrow linewidth
- High Energy
- wide-temperature operation
- adjustable pulse width
- integrated internal and external triggering

Application Fields

- Coherent Doppler Wind Lidar
- Pollution Detection

Structural Dimensions



Parameter	
Type	PhaseOptics-1550-E0300-M-PM
Wavelength (nm)	1550±2
Linewidth (kHz)	≤5
Pulse Width (ns)	200/300/400/600(+10%)
Frequency Repeatability (kHz)	10
Single Pulse Energy (μj)	100@200ns;150@300ns; 200@400ns,300@600ns. *Above listed are Typical Values *Measured Value±10% *Optional pulse frequency
Power Stability (RMS/2h)@25°C)	≤5% (Excluding Warm-up Time)
Output Fiber (Length) (m)	Main Output 0.4, Local Oscillator Output 0.7
Supply Voltage (V)	DC 24
Power Consumption (W)	≤45@ 200ns; ≤70@ 600ns
Communication Interface	DB9/RS232
Dimensions (W) x (D) x (H) (mm)	200x200x50
Operating Temperature (°C)	-30-60
Storage Temperature (°C)	-40-85

Test Data

Photo 1-1 Energy Test Diagram@300ns

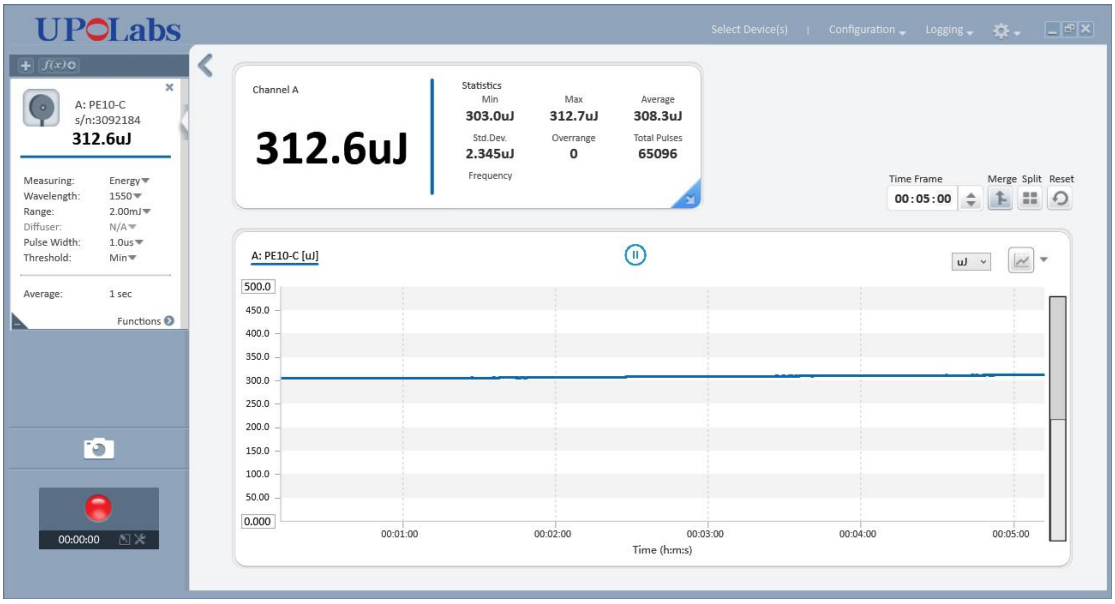


图 1-2 Energy Test Diagram@600ns