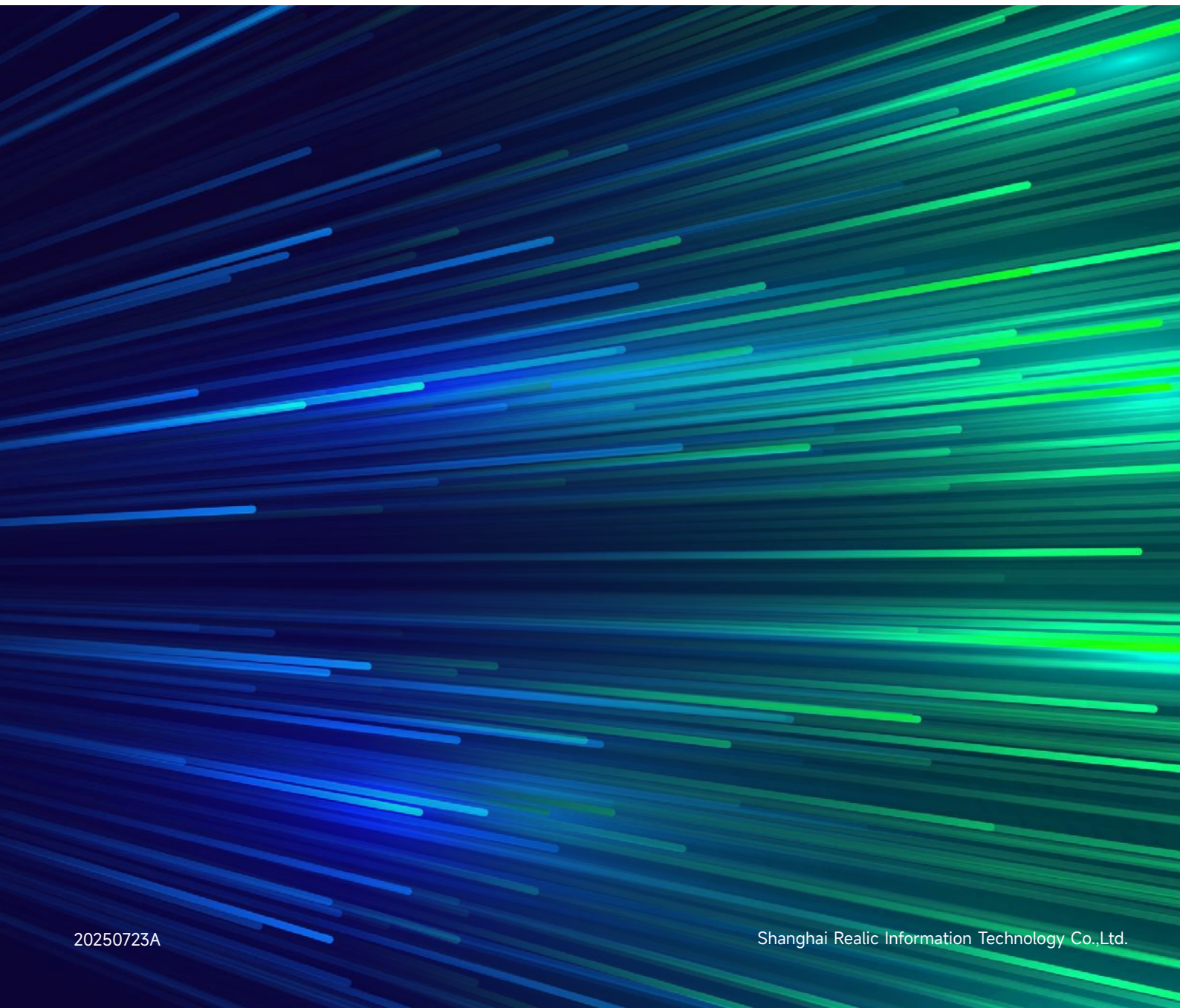


1550nm

Single Frequency Pulse Laser

Type: PhaseOptics-1550-FPM-50



1550nm Single Frequency Pulse Laser

PhaseOptics-1550-FPM-50

PhaseOptics-1550-FPM-50 Laser uses MOPA ,non-linear suppression and homogeneous thermal design,the Single Frequency Pulse Laser is suitable as a compact laser light source in atmospheric sensing.Models are available for a simple-to-use panel in Using MOPA , non-linear suppression and homogeneous thermal design,the Single Frequency Pulse Laser is suitable as a compact laser light source in atmospheric sensing.Models are available for a simple-to-use panel in external and internal dual-trigger modes.

Characteristics and Application Fields

Characteristics

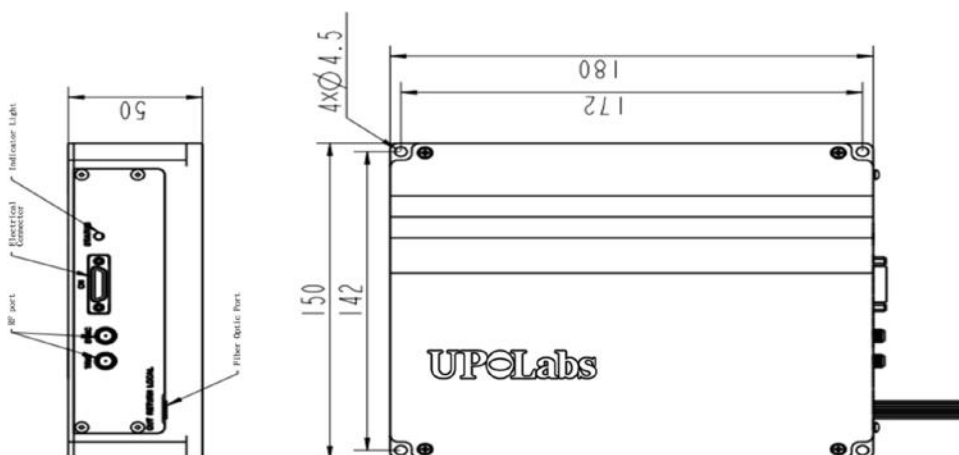
- wide-temperature operation
- adjustable pulse width
- integrated internal and external triggering

Application Fields

- Coherent Doppler Wind Lidar
- Pollution Detection



Structural Dimensions



Parameter	
Type	PhaseOptics-1550-FPM-50
Wavelength (nm)	1550±2
Linewidth (kHz)	≤300
Pulse Width (ns)	100/200
Frequency Repeatability (kHz)	30 (10/20)
Single Pulse Energy (μj)	≥50@20°C
Power Stability (RMS/2h) @25°C)	5%
Polarization Extinction Ratio (dB)	≥15
Output Fiber (Type)	Polarization-maintaining single-mode fiber, FC/APC
Output Fiber (Length) (m)	Main Output 0.35, Local Oscillator Output 0.7, Return Light Output 0.7
Supply Voltage (V)	DC 24
Power Consumption (W)	≤50
Communication Interface	DB9/RS232
Dimensions (W) x (D) x (H) (mm)	180×150×50
Weight (kg)	1.3
Operating Temperature (°C)	-30~65
Storage Temperature (°C)	-40~85

Test Data

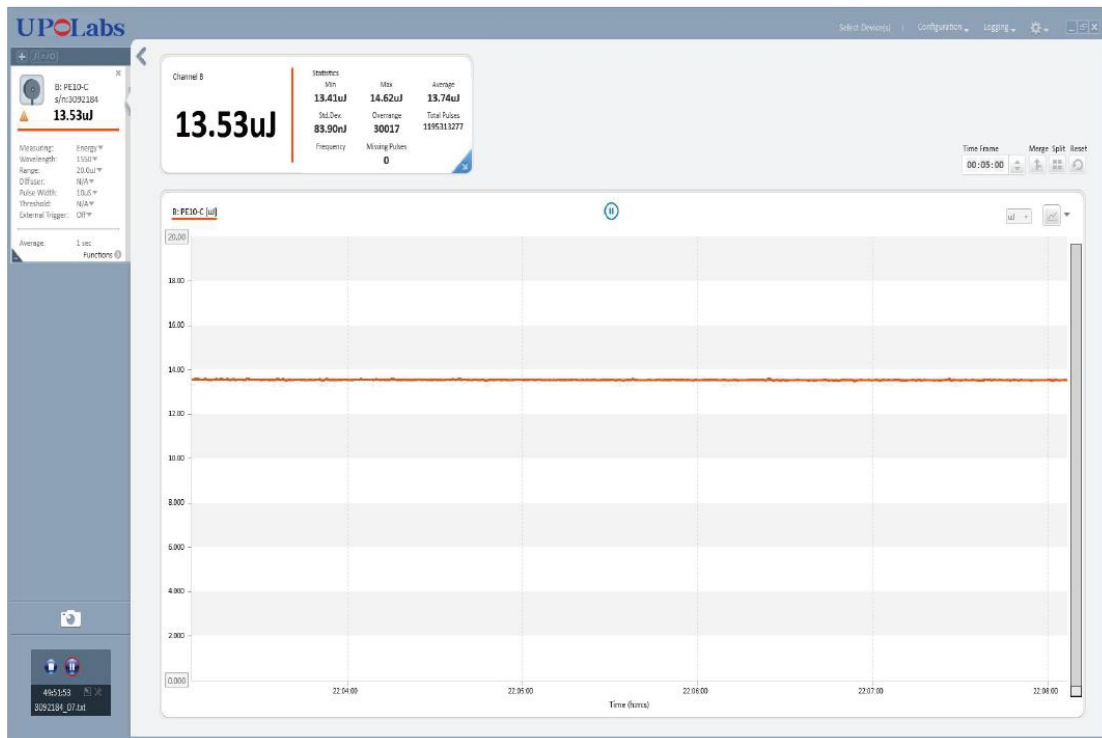


Photo 1-1 Output Energy and Energy Stability@200ns/30kHz

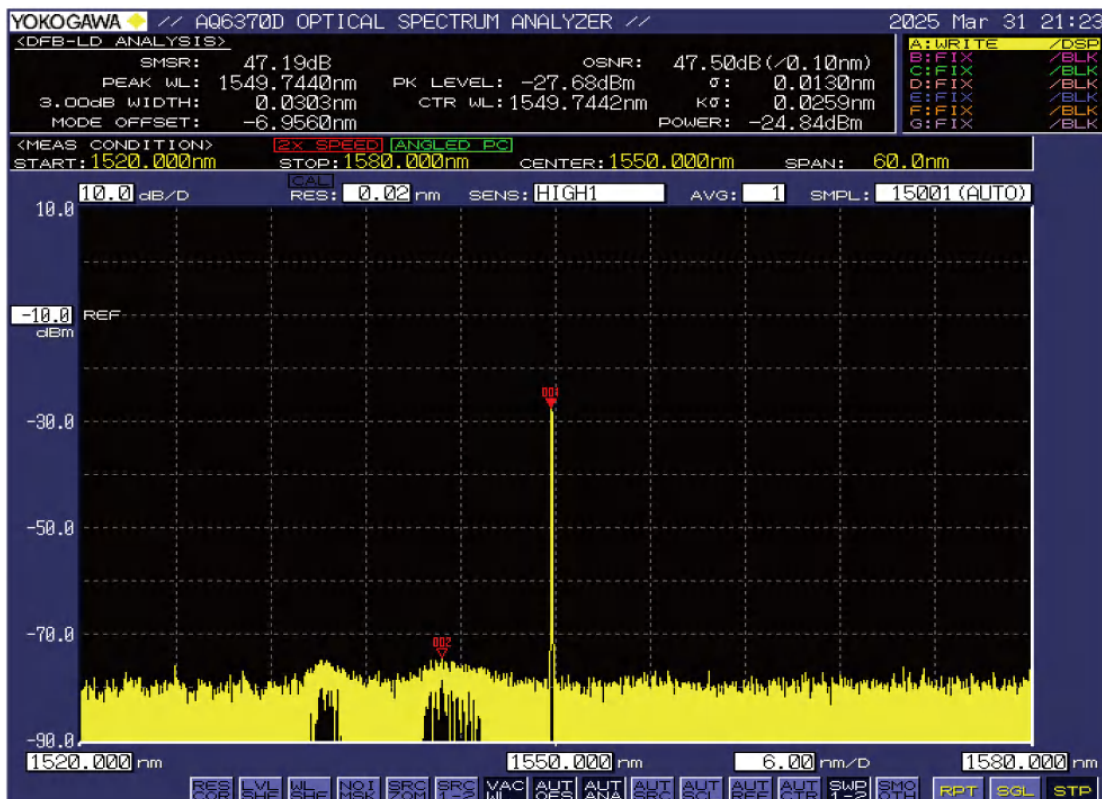


Photo 1-2 Output Pulse Waveform@200ns/30kHz

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