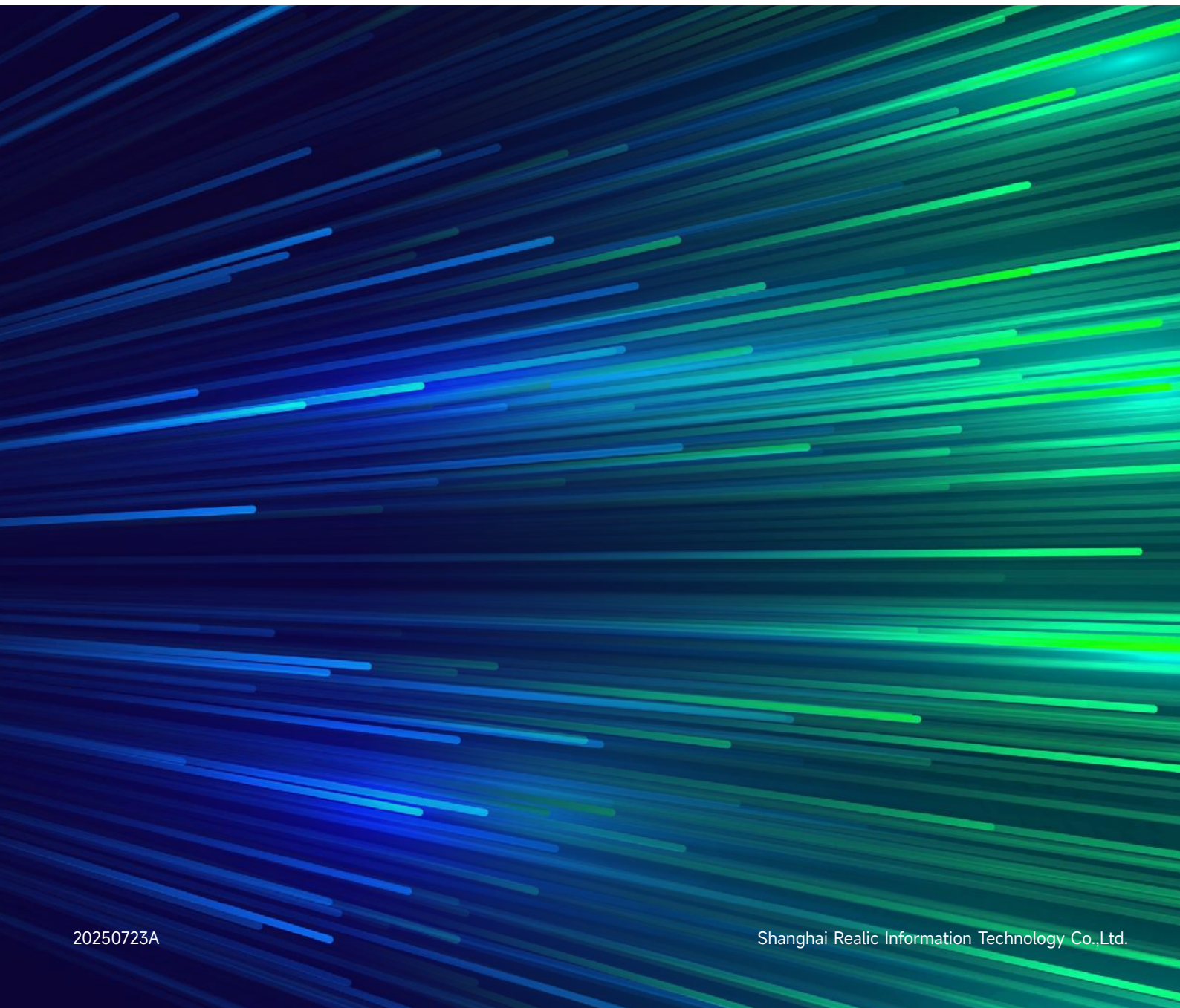


1572nm

Dual Wavelength Fiber Laser

Type: PhaseOptics-1572-E0050-M-PM



1572nm Dual Wavelength Fiber Laser

PhaseOptics-1572-E0050-M-PM

The 1572nm Dual Wavelength Fiber Laser is used for measurement of CO₂ atmospheric concentration. Providing periodically radiated dual-wavelength high-energy pulsed laser rays, it features with narrow linewidth, stable wavelength, outstanding beam quality and compact structure-design. Models provide tunable pulse width and dual-trigger modes. Customized models are available.

Characteristics and Application Fields

Characteristics

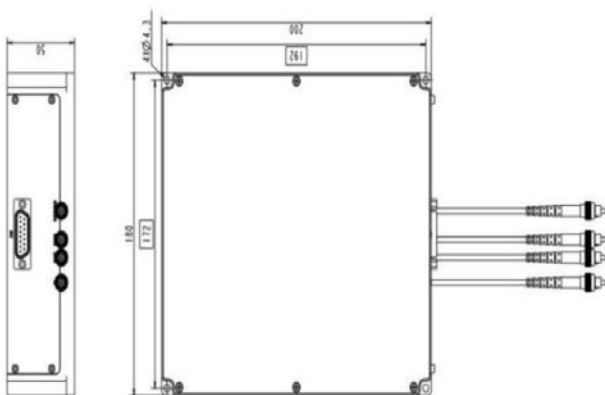
- High Output Energy
- High Wavelength Stability
- High Beam Quality
- Adjustable pulse width
- Dual-wavelength Fast Switching
- Strong Environmental Adaptability

Application Fields

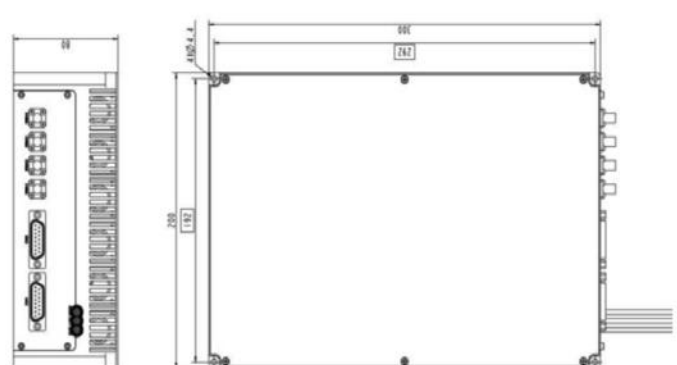
- CO₂ Concentration Measurement



Structural Dimensions



Structural Diagram of the Amplifier Module



Structural Diagram of the Seed Laser Module

Parameter	
Type	PhaseOptics-1572-E0050-M-PM
Wavelength (nm)	1572.018±0.002/1572.480±0.002
Wavelength Switching Frequency (Hz)	1-100 (Rise Edge≤200μs)
Linewidth (kHz)	≤5
Polarization Extinction Ratio (dB)	≥20
Frequency Repeatability (kHz)	10
Pulse Width (ns)	200/400
Single Pulse Energy (μJ)	≥50@200ns, ≥100@400ns
Power Stability (RMS)	2%@2h
Beam Quality (M²)	≤1.3
Output Fiber (Type)	Polarization-maintaining large-mode-area fiber, FC/APC
Output Fiber (Length) (m)	0.35
Supply Voltage (V)	DC 24
Power Consumption (W)	≤110
Communication Interface	RS232
Operating Temperature (°C)	10~40
Storage Temperature (°C)	0~50

Test Data



Photo 1-1 Energy Test Diagram@200ns

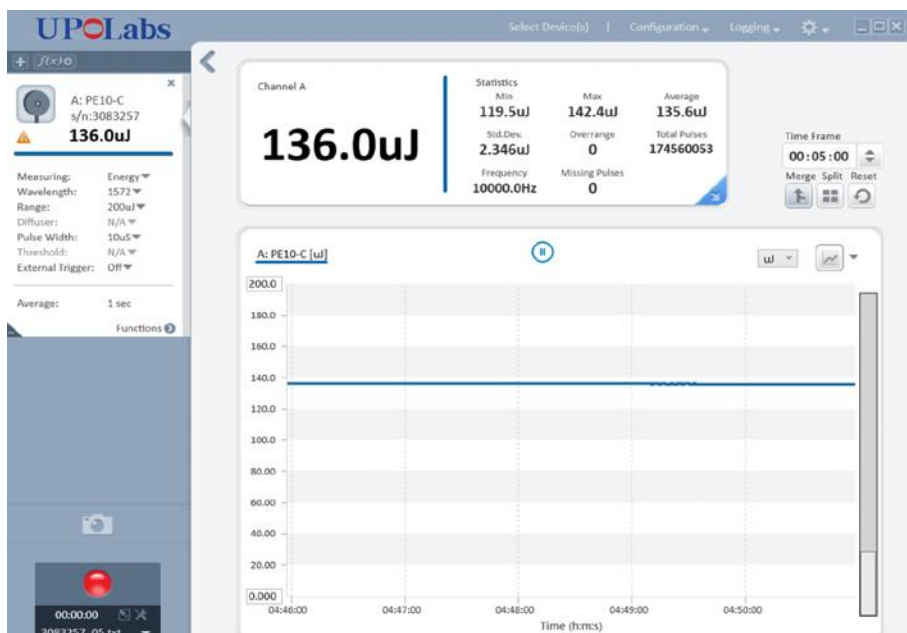


图 1-2 Energy Test Diagram@400ns

