

Multifunctional high-speed picosecond pulse Laser light source

Key Advantage

- Ultra-narrow optical pulse modulation
- Light intensity self-calibration and stability maintenance
- Precise adjustment of light intensity range
- Optical pulse repetition frequency can be adjusted

Typical Application

- Quantum Key Distribution (QKD)
- High Power Ultrafast Lasers
- Single Photon Detector Testing
- Laser Ranging
- Fiber optic sensing



This product is a compact multifunctional high-speed picosecond pulse light source with independent intellectual property rights. It has advanced core indicators and rich configuration functions, which can meet diverse scientific research and application needs.

The core function of the product is to provide a stable and reliable narrow pulse light source, support continuous and pulsed light modes, pulse mode supports internal trigger and external trigger, adjustable delay, adjustable pulse width, ultra-narrow pulse width up to 40ps, and extinction ratio higher than 30dB, adjustable pulse repetition frequency, high frequency up to 1.25GHz, adjustable luminous power and average number of photons per pulse, adjustable range up to 10, with high stability to adapt to environmental changes.

Parameters&Index	
Technical Parameters	Technical Index
Product Model	QPLS-B20
Center Wavelength	1500.12±0.2nm
Optical Pulse Repetition Frequency	maximum supported frequency is 1.25GHz
Optical Pulse Width	≥40ps
Optical Pulse Leading Edge Jitter	<10ps
Optical Pulse Delay Progress	11ps
Pulse Photon Number Regulation	0.01-100000
Input Voltage	12V
Size	235mm*230mm*65mm
Working wavelength can be customized	
Repeat frequency can be customized	
Pulse width adjustable >40ps	