

780/1560 nm Dual Output Femtosecond Laser STR1550D



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780/1560 nm Dual Output Femtosecond Laser - STR1550D

STR1550D features a dual-port design and may provide high-power output at both 1550nm and 780nm simultaneously. It gives customers the ultimate flexibilities in constructing multi-purpose photonic systems. The proportion of 1550 and 780 output power can be customized upon user request. The laser is an easy-to-use turn-key system and can also be computer controlled.

STR1550D is well-suited for scientific uses such as THz-TDS (time-domain terahertz generation), SHG/THG imaging, pump-probe spectroscopy and multi-photon imaging. It can meet a broad range of R&D requirements of the scientific community.



Key Features

- Double wavelength output
- · High peak power
- Linear polarization
- Diffraction-limited beam

Applications

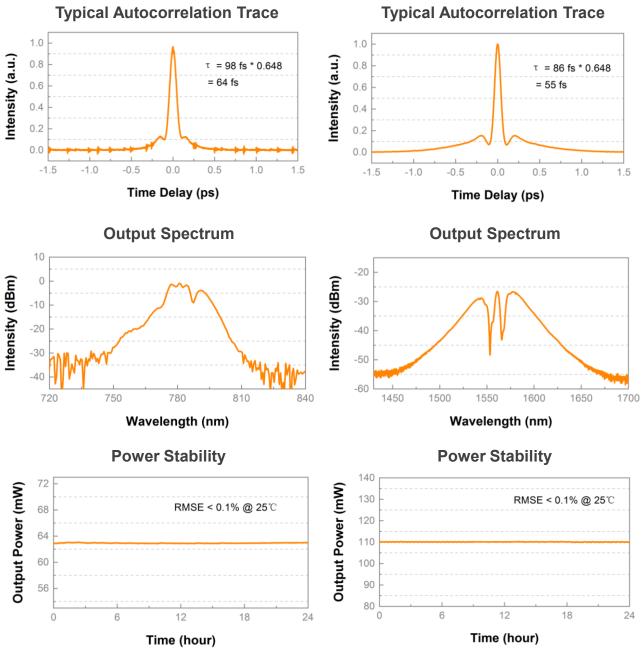
- SHG Imaging
- Two-photon Polymerization
- Multiphoton imaging
- Time-resolved fluorescence

Main Specification

| Laser Parameters | | | |
|---|------------|--------------------------------|----------------------------|
| Operating Wavelength | nm | 1560 ± 10 nm | 780 ± 10 nm |
| Pulse Width (FWHM) | fs | < 80 fs | < 100 fs |
| Polarization Extinction Ratio | dB | > 20 dB | |
| Repetition Rate | MHz | 80 MHz | |
| Average Power | mW | >100 mW | > 60 mW (up to 90mW) |
| Average Power Stability | % RMS | < 0.5 %RMS (12h@25°C) | |
| Pulse Energy | nJ | > 1.25 nJ | > 0.75 nJ |
| Output Type | | PM1550 fiber, FC/APC connector | Spatial collimation output |
| Electrical, Environmental and Mechanical Parameters | | | |
| Supply Voltage | VAC | 100-240 VAC | |
| Operational Temperature Range | °C | 15-35 | |
| Operational Humidity Range | °C | 20-80 (non-condensing) | |
| Weight | kg | 17 | |
| Dimensions | mm (LxWxH) | 395 x 348 x 126 mm | |
| Cooling | | Air Cooling | |

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Test Data



Machine Drawing











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