Aunion Tech Co.,Ltd
1850-166-2513 021-510-83793
info@auniontech.com www.auniontech.com

# Arche

## World's most cost-effective femtosecond laser

A suite of ultrafast fiber lasers with 100 MHz range repetition rates, centered at 1560nm, delivering < 500 fs. Arche becomes a workhorse tool for many research and industrial applications requiring reliability and affordability.


**Central Wavelength**
1560 nm

**Repetition Rate**
100 MHz

**Average Power**
> 4 mW

**Pulse Duration**
< 500 fs

## / Applications

- Amplifier Seeding
- Optical Characterization
- Ultrafast Spectroscopy
- Testing at telecom wavelengths

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## / Technical Specifications

| Wavelength: | Repetition Rate | Pulse Duration: | Average Power: |
|---|---|---|---|
| 1560 nm | 100 MHz | < 500 fs | > 4 mW |

| | |
|---|---|
| Central wavelength: | 1560 nm |
| Repetition Rate: | 100 MHz (customizable to 50 MHz) |
| Average Power: | > 4mW |
| Pulse Duration: | < 500 fs |
| Polarization: | Linearly Polarized |
| Output Port: | Single Mode Fiber / 0.25 m |
| Optical Output: | FC/APC Connector |
| Synchronization: | Optical Signal |
| Pulse Energy: | > 40 pJ |
| Spatial Mode Quality ($M^2$): | < 1.2 |
| Cooling: | Air cooling |
| Power Requirements: | 220/110V 50-60 Hz |
| Operating Temperature: | 20 - 30 °C |
| Storage Temperature | 0 - 60 °C |

OTHER DETAILED SPECS UNDER REQUEST

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## / Optical Spectrum