

# Arche

World's most cost-effective femtosecond laser

A suite of ultrafast fiber lasers with  $65 \text{ MHz} \pm 2 \text{ MHz}$  repetition rate, centered at  $1550 \text{ nm} \pm 5 \text{ nm}$ , delivering  $< 250 \text{ fs}$ . Arche becomes a workhorse tool for many research and industrial applications requiring reliability and affordability.



## Central Wavelength

$1550 \text{ nm} \pm 5 \text{ nm}$

## Repetition Rate

$65 \text{ MHz} \pm 2 \text{ MHz}$

## Average Power

20 mW

## Pulse Width

$< 250 \text{ fs}$

## / Applications



Amplifier Seeding

Optical Characterization

Ultrafast Spectroscopy

Testing at telecom wavelengths

# Arche

## / Technical Specifications

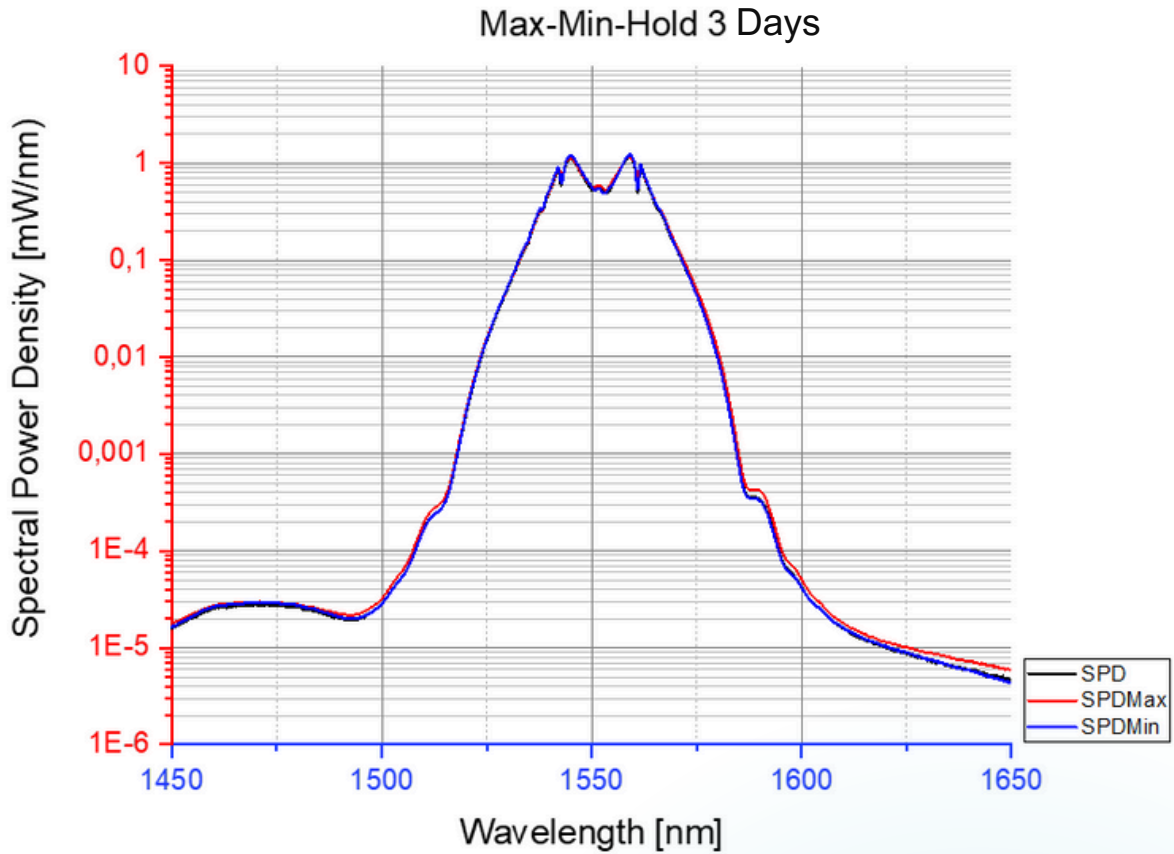
<b>Wavelength:</b>	<b>Repetition Rate</b>	<b>Pulse Width:</b>	<b>Average Power:</b>
1550 nm $\pm$ 5 nm	65 MHz $\pm$ 2 MHz	< 250 fs	20 mW

Central Wavelength:	1550 nm $\pm$ 5 nm
Spectral Bandwidth:	> 15 nm
Repetition Rate:	65 MHz $\pm$ 2 MHz
Average Power:	20 mW
Pulse Width:	< 250 fs
Polarization:	Linearly Polarized
Output Port:	Single Mode Fiber / 0.25 m (customizable)
Optical Output:	FC / APC Connector
Synchronization:	Optical Signal
Pulse Energy:	308 pJ
Peak Power:	1.23 kW
Spatial Mode Quality (M <sup>2</sup> ):	< 1.2
Cooling:	Air cooling
Power Requirements:	110 V - 220 V / 50 Hz-60 Hz
Operating Temperature:	20 - 30 °C
Storage Temperature	0 - 60 °C

OTHER DETAILED SPECS UNDER REQUEST

# Arche

/ Optical Spectrum



# Arche

## / Additional information

### Warranty:

12 months warranty or > 10,000h of continuous operation.

## / FYLA contact



### Sales contact

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\*The price may be different in the APAC area.