

# Aria-Ti

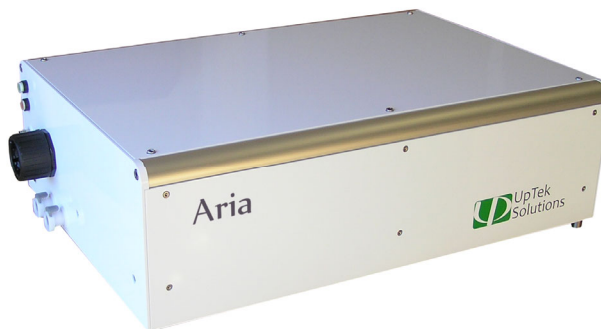
## Kerr-lens Mode-locked Ti:Sapphire Femtosecond

### FEATURES

- Integrated CW Green laser
- Bandwidth up to 60 nm
- Capable of compress pulse down to 25 fs
- Hand-free operation, fully automated
- Ideal for ultrafast amplifier seeding

### APPLICATIONS

- Ultrafast laser amplifier seeding
- Harmonic generation
- THz generation
- OTC (Optical Coherence Tomography)



Aria-Ti series are broad-band, kerr-lens mode locked femtosecond oscillators with a pump laser integrated. It is capable of producing up to 60nm broadband spectrum and high-power mode-locked output. Aria-Ti series feature compact size, user-friendly operation and long-term reliability.

Aria series are mode-locked oscillators, suitable for Ti:Sapphire amplifier seeding, such as UpTek Solutions Corp's Phidia ultrafast amplifiers.

	Aria-Ti-500	Aria-Ti-HP
Output Power	>500mW	>2500mW
Repetition Rate	84MHz ± 4MHz	85MHz ± 5MHz
Center Wavelength	790nm ±10nm	800nm
Typical Spectrum Width	~40nm	~10nm
Tunable Range	770nm-830nm	770nm-830nm
Spatial Mode	TEM <sub>00</sub> M <sup>2</sup> <1.1	TEM <sub>00</sub> M <sup>2</sup> <1.1
Beam Size (1/e <sup>2</sup> )	~ 1.5 mm	~ 1.5 mm
Power Stability	< ±1 %	< ±1 %
Noise	<0.5% RMS	< 0.5% RMS
Beam Divergence, Full Angle	<1 mrad	<1 mrad
Polarization	Linear, Horizontal	Linear, Horizontal
Dimension (Laser head)	20.5"L x 14.2"W x 6"H	20.5"L x 14.2"W x 6"H

# Aria-F

## Mode-locked All PM-fiber Femtosecond Oscillator

### FEATURES

- All PM-fiber oscillator
- Bandwidth up to 10 nm
- Capable of compress pulse down to 100 fs
- Hand-free operation, fully automated
- $\pm 10^{\circ}\text{C}$  operating environment
- Ideal for ultrafast amplifier seeding
- Super reliability for industrial application

### APPLICATIONS

- Ultrafast laser amplifier seeding
- Harmonic generation
- THz generation



Aria-F series are SHG mode-locked Er-doped fiber laser oscillators. They are completely formed by environmental-insensitive PM-fiber components and feature hand-free operation in industrial environment with operation temperature from  $18^{\circ}\text{C}$  to  $38^{\circ}\text{C}$ . It is the first choice for ultrafast laser amplifier seeding in industrial environment, such as UpTek Solutions Phidia-series.

	Aria-F-10	Aria-F-100
Output Power	>10mW	>100mW
Repetition Rate	35MHz $\pm 5$ MHz	40MHz $\pm 10$ MHz
Center Wavelength	790nm $\pm 10$ nm	790nm $\pm 10$ nm
Typical Spectrum Width	> 10nm	> 10nm
Tunable Range	N/A	N/A
Spatial Mode	TEM <sub>00</sub> M <sup>2</sup> <1.1	TEM <sub>00</sub> M <sup>2</sup> <1.1
Beam Size (1/e <sup>2</sup> )	~ 1 mm	~ 1 mm
Power Stability	< $\pm 1.5$ %	< $\pm 1.0$ %
Noise	< 2% RMS	< 1% RMS
Beam Divergence, Full Angle	<1 mrad	<1 mrad
Polarization	Linear, Horizontal	Linear, Horizontal
Dimension (Laser head)	7"L x 6"W x 3"H	9"L x 6"W x 3"H