

Aria-Ti

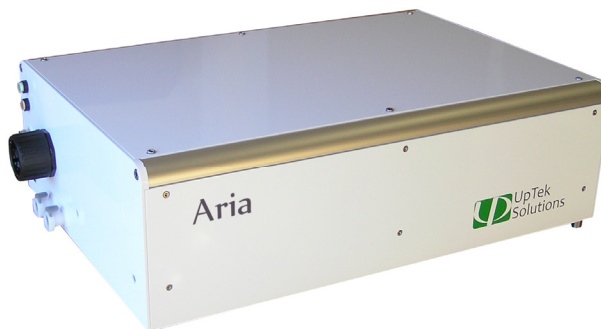
Kerr-lens Mode-locked Ti:Sapphire Femtosecond

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-SP
Output Power	>500mW	>300mW
Repetition Rate	84MHz ± 4MHz	84MHz ± 4MHz
Center Wavelength	800nm ±10nm	800nm ±5nm
Typical Spectrum Width	~40nm	~60nm
Tunable Range	770nm-830nm	780nm-820nm
Pulse width	<=35 fs	<=25 fs
Spatial Mode	TEM ₀₀ M ² <1.1	TEM ₀₀ M ² <1.1
Beam Size (1/e ²)	~ 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