

picoTRAIN™ UC Industrial

Ultra Compact, all-diode-pumped, solid state picosecond oscillator



picoTRAIN™	UC-1047-500	UC-1053-500	UC-1064-500
Wavelength ¹⁾	1047 nm	1053 nm	1064 nm
Pulse width (FWHM), typical ²⁾	5 ps	5 ps	7 ps
Average output power	> 500 mW		
Pulse repetition rate	63 MHz +/- 1 MHz		
Laser material ¹⁾	Nd:YLF		Nd:VAN
Power stability, typical	< 1% RMS (12h)		
Beam quality	TEM ₀₀ ; M ² ≤ 1.1		
Polarization	horizontal / vertical (TBD)		
Power supply ³⁾	100 VAC – 240 VAC, 50/60 Hz, 100W (not including Chiller)		
Laser head size (IC-Laser)	122 x 202 x 96 mm ³ (l x w x h)		
Beam height (IC-Laser ⁴⁾)	76.2 mm (3"), nominal		
Controller size	470 x 200 x 88 mm ³ (l x w x h)		
Chiller	386 x 277 x 203 mm ³ (l x w x h), 100 - 240 VAC, 50/60 Hz, < 625 W (incl. heater)		
Operation ambient temperature	18°C to 30°C		

All specifications are typical data and subject to change without notice in order to provide the best product possible.

1) Different wavelengths on request

2) Other pulse widths on request

3) Air-cooled version on request

4) ask for customized system packaging

Main Features

- Passive self-starting modelocking by saturable Bragg reflectors
- High temporal and spatial stability
- Ultra-compact and modular set-up
- Sealed-off technology
- Air-cooled closed-loop chiller (included)
- USB Software remote control
- FEA optimised industrial mirror mounts
- De-rated pump diodes
- High MTBF & up-time

Applications

- Seeding
- THz Generation
- OCT in conjunction with supercontinuum fibre
- ps and fs Spectroscopy
- Non-Linear Optics
- Single Molecule Detection
- Multi-Photon-Microscopy
- THz Imaging
- FLIM

Please Inquire About

- Frequency conversion (SHG, THG, FHG, OPO)
- Higher power
- Application laboratory for sample testing
- Continuum generation
- Air cooled version

