

MCI Series

2.5ns Microchip Laser



Applications

Laser-induced fluorescence (LIF)
 Laser-based ultrasound detection
 Laser ranging
 Raman spectroscopy

Key Features

- ◆ Compact design, excellent stability
- ◆ Polarization-stable
- ◆ Repetition rate up to 1kHz
- ◆ Spatial mode TEM₀₀

Technical Specifications

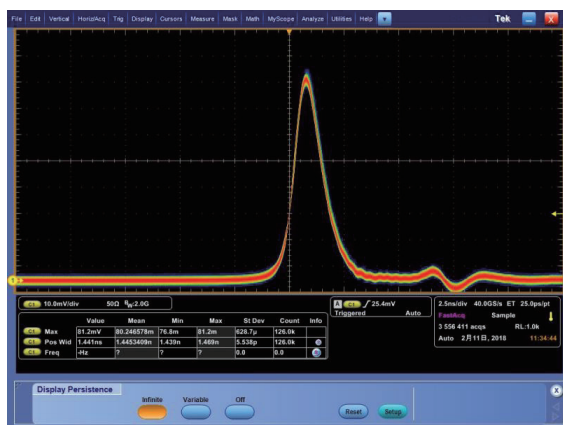
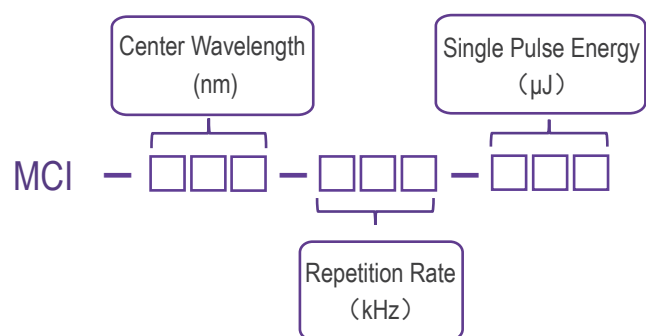
Optical Parameters			
Wavelength (nm)		946	473
Repetition rate (kHz)		1	1
Average power (mW)		20	4
Pulse energy (μJ)		20	4
Pulse width (ps)		2500	2000
Power stability (RMS, @8h)		<3%	
Beam profile		TEM ₀₀	
Beam full divergence (typ., mrad)	Horizontal @1/e ²	9	7
	Vertical @1/e ²	9	7
Polarization ratio		>100:1	
System Parameters			
Supply power voltage		100~240 VAC, 50/60 Hz	
Control interface		RS232	
Power consumption (W)		≤15	
Power dimensions (W×H×L,mm)		180×102×180	
Laser head dimensions (W×H×L,mm)		45×33×120	
Operation temperature (°C)		15~35	
Storage temperature (°C)		0~60	

1. *Side laser outlet configuration (middle laser outlet configuration unless otherwise stated) .
2. Built-in beam expander and collimator are available upon request, and divergence can be less than 2mrad.
3. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

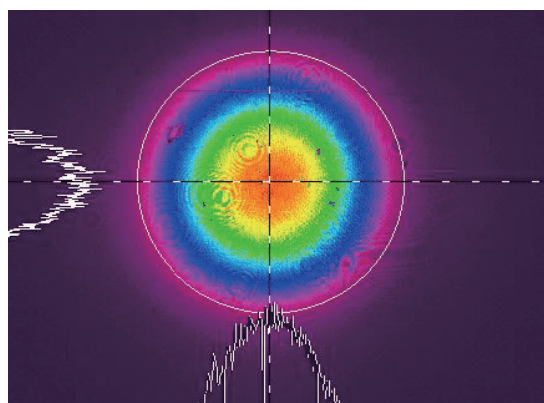
Order Information

Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
946	MCI-946-1-20	1	20
473	MCI-473-1-4	1	4

Part Numbering Schema

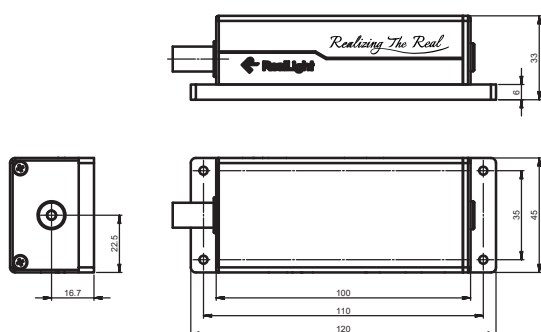


Typical Pluse

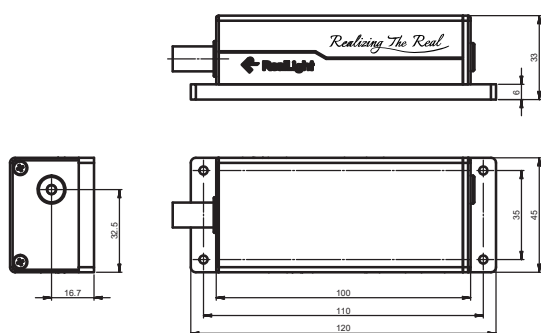


Beam Profile

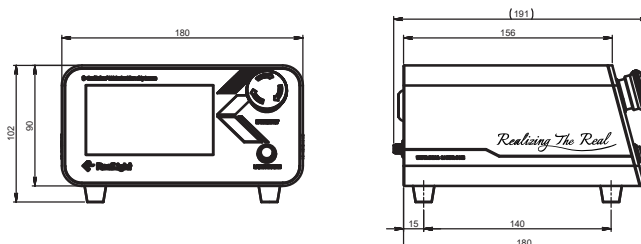
Mechanical Drawings (in mm)



Laser Head (middle laser outlet)



Laser Head (side laser outlet)



Power Supply

