



750ps Microchip Laser

Applications

- Seed laser
- Micromachining
- Pump source for optical parametric oscillators
- Laser-induced breakdown spectroscopy (LIBS)
- Laser-based ultrasound detection
- Laser ionization mass spectroscopy (LIMS)
- Laser ranging
- Laser-induced fluorescence (LIF)
- Laser ultrasonic imaging
- Laser ablation
- Nonlinear optical measurement

Key Features

- Single pulse energy up to 120μJ
- Repetition rate up to 10kHz
- Spatial mode TEM₀₀
- Polarization-stable
- A wide range of wavelengths

Technical Specifications

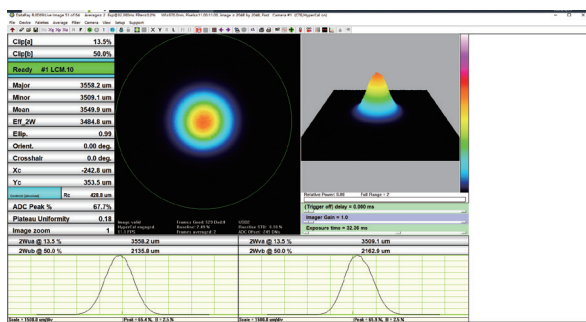
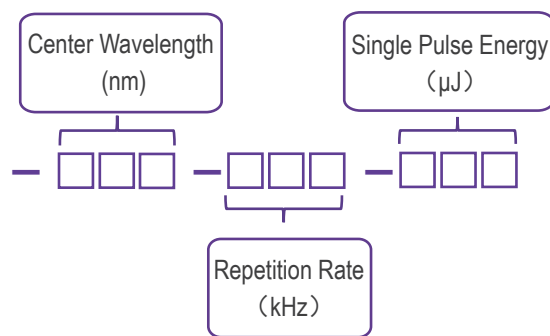
Optical Parameters														
Wavelength (nm)		1064			532			355			266			213
Repetition rate (kHz)		1	5	10	1	5	10	1*	5*	10*	1*	5*	10*	1*
Average power (mW)		100	300	300	50	150	150	20	50	50	10	40	40	4
Pulse energy (μJ)		100	60	30	50	30	15	20	10	5	10	8	4	4
Pulse width (ps)		750			750			650			650			650
Power stability (RMS, @8h)		<3%												
Beam profile		TEM ₀₀												
Beam full divergence (typ., mrad)	Horizontal @1/e ²	8	12	7	10	5	8	5	8	5	8	5	5	
	Vertical @1/e ²	8	12	7	10	5	8	5	8	5	8	5	5	
Polarization ratio		>100:1												
System Parameters														
Supply power voltage		100~240 VAC, 50/60 Hz												
Control interface		RS232, USB												
Power consumption (W)		≤45												
Power dimensions (W×H×L,mm)		180×102×180												
Laser dimensions (W×H×L,mm)		45×33×120												
Operation temperature (°C)		15~35												
Storage temperature (°C)		0~60												

- *Side laser outlet configuration (middle laser outlet configuration unless otherwise stated) .
- Built-in beam expander and collimator are available upon request, and divergence can be less than 2mrad.
- 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.

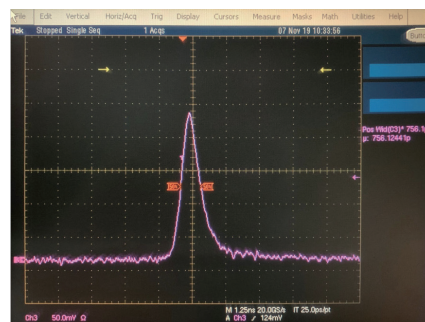
Order Information

Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCC-1064-1-100	1	100
	MCC-1064-5-60	5	60
	MCC-1064-10-30	10	30
532	MCC-532-1-50	1	50
	MCC-532-5-30	5	30
	MCC-532-10-15	10	15
355	MCC-355-1-20	1	20
	MCC-355-5-10	5	10
	MCC-355-10-5	10	5
266	MCC-266-1-10	1	10
	MCC-266-5-8	5	8
	MCC-266-10-4	10	4
213	MCC-213-1-4	1	4

Part Numbering Schema

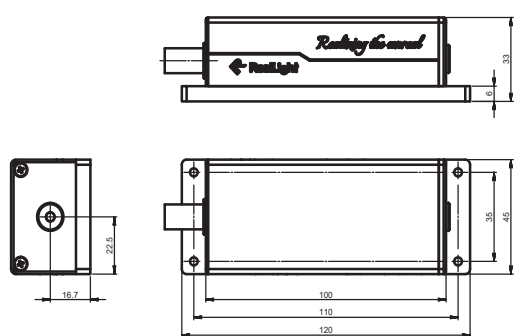


Beam Profile (1064nm)

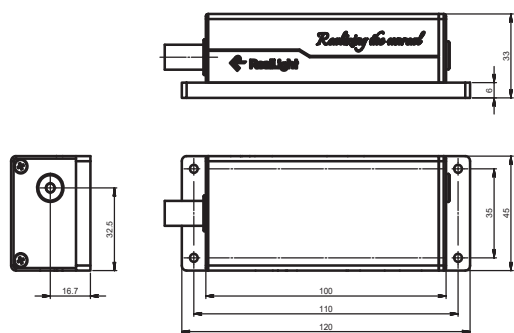


Typical Pulse

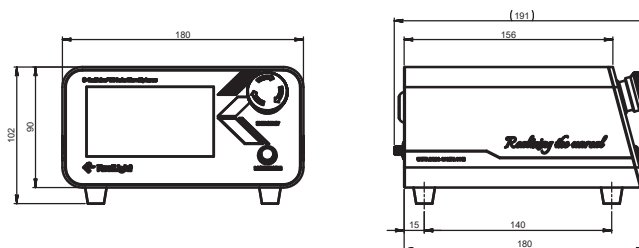
Mechanical Drawings (in mm)



Laser Head (middle laser outlet)



Laser Head (side laser outlet)



Power Supply

