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MCC Series 650ps Microchip Lasers

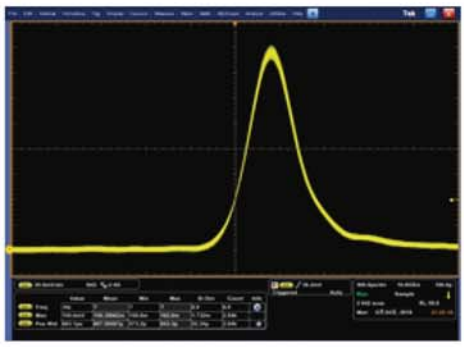
Key Features

- Pulse width down to 600ps
- Pulse energy up to 180μJ
- Repetition rates up to 1kHz
- Excellent beam quality
- Sealed design, high reliability

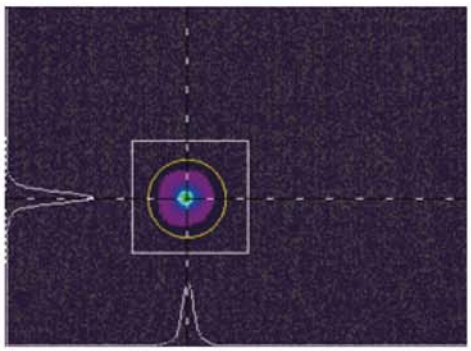
Applications

LIBS
LIPS
LIMS
Seed Laser
Biomedical
Measurement
Micromachining
Nonlinear Optical
OPO Pumping Source
Laser Ultrasound Testing
Laser Induced Fluorescence

MCC Series									
Wavelength (nm)		1064		532		355		266	
Repetition rate (kHz)		0.1	1	0.1	1	0.1	1	0.1	1
Average power (mW)		18	150	10	80	3	25	1	5
Pulse energy (μJ)		180	150	100	80	30	25	10	5
Pulse width (ns)		0.65		0.6		0.6		0.6	
Power stabilty (8h)		±3%		±3%		±3%		±3%	
Beam profile		TEM_{00}		TEM_{00}		TEM_{00}		TEM_{00}	
Beam divergence full angle (mrad)	Horizontal @1/e²	Typ.4		Typ.3		Typ.3		Typ.3	
	Vertical @1/e²	Typ.4		Typ.3		Typ.3		Typ.3	
Polarization		> 100:1		> 100:1		> 100:1		> 100:1	
System parameters									
Supply power voltage		100-240 VAC,50/60 Hz							
Modulation input		TTL 0-5V,SMA input							
Control interface		RS232、USB							
Power consumption (W)		<15	<35	<20	<30	<35	<20	<35	<50
Power dimensions (mm)		146×76×150 (W×H×L)							
Laser head dimensions (mm)		45×30×120 (W×H×L)							
Operation temperature (℃)		15-35							
Storage temperature (℃)		0-50							



Typical Pulse



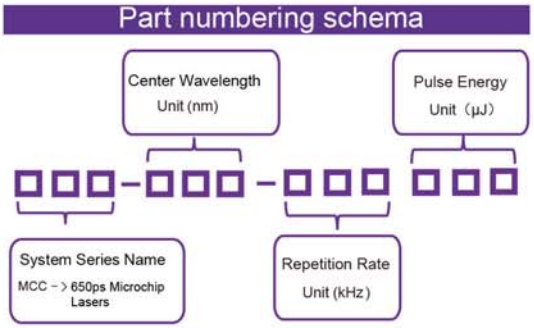
Beam Profile

Ordering information

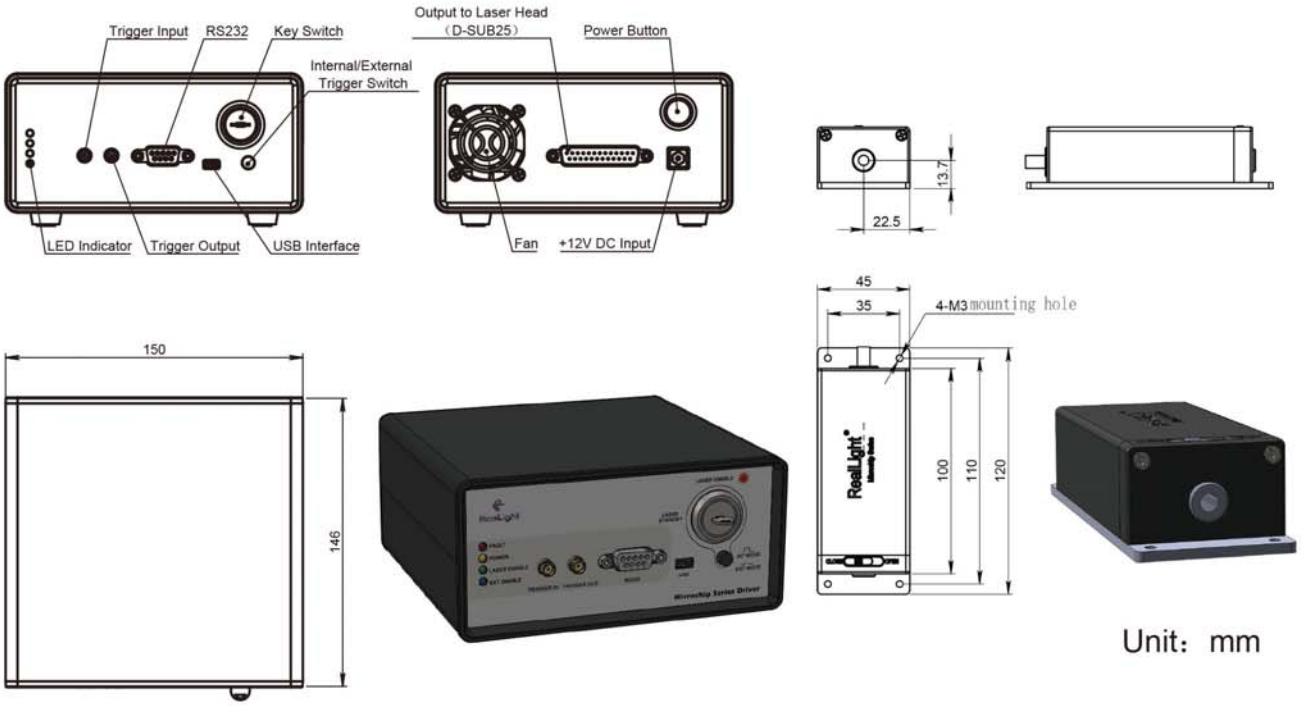
MCC Series Model List			
Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCC-1064-0.1-180	0.1	180
	MCC-1064-1-150	1	150
532	MCC-532-0.1-100	0.1	100
	MCC-532-1-080	1	80
355	MCC-355-0.1-030	0.1	30
	MCC-355-1-025	1	25
266	MCC-266-0.1-010	0.1	10
	MCC-266-1-005	1	5

* All specifications are subject to change without prior notice

Part numbering schema



Mechanical Specifications



Unit：mm