

Merion MW

Modular Wavelengths diode-pumped pulsed Nd: YAG laser



MAIN FEATURES

- Lightweight and compact design
- Repetition rates up to 200 Hz
- Quick and easy access to 1064, 532, 355 & 266 nm
- Plug & play harmonics with automatic phase-matching
- Quick-connect cables and cooling lines
- Single longitudinal mode option available
- No installation required
- Diode warranty: 2 billion shots

MAIN APPLICATIONS

**LiDAR · OPO PUMPING-
PHOTOACOUSTIC IMAGING ·
Ti:Sa PUMPING ·
MATERIAL PROCESSING ·
LASER PEENING ·
ABLATION · SPECTROSCOPY ·
LIF · LASER ULTRASOUND ·**

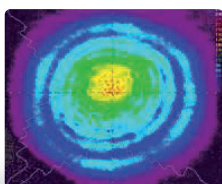
SPECIFICATIONS

		MERION MW 7-100	MERION MW 7-200	MERION MW 9-100
Repetition rate ⁽¹⁾ (Hz)		100	200	100
Energy per pulse (mJ)	1064 nm	300	200	650
	532 nm	160	95	360
	355 nm	90	60	200
Pulse to pulse stability (%) [rms%]	1064 nm	< +/- 2 [0.6]		
Divergence (mrad)	1064 nm	< 1 ⁽²⁾		
Pulse duration (ns)	1064 nm	5-9		
Polarization	1064 nm	Vertical		
Polarization ratio (%)	1064 nm	> 95	> 90	
Cooling		water to air	water to water, chiller as option	
Dimensions in mm [inches] (HxLxW)	laser head	147 x 526 x 125 [5.8 x 20.7 x 4.9]		
	harmonic modules	99 x 143 x 125 [3.9 x 5.6 x 4.9]		
	power supply	177.4 x 482.6 x 457.2 [6.99 x 19 x 18]	537 x 553 x 813 [21.1 x 21.77 x 32]	
Weight in kg [lbs.]	laser head	< 8 [15.4]		
	harmonic modules	< 4 [8.8]		

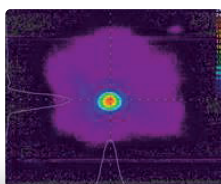
(1) Other repetition rates on request

(2) Multimode version for flat top spatial profiles on request

Typical beam profiles



Near Field 650 mJ
@1064 nm, 100 Hz



Far Field 650 mJ
@1064 nm, 100 Hz

www.quantel-laser.com

Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.



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