

VIRON

Compact pulsed diode-pumped Nd:YAG laser



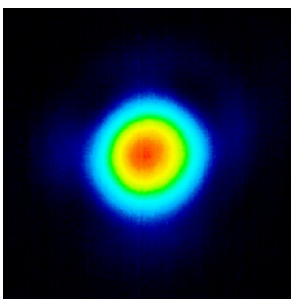
MAIN FEATURES

- Laser head and control electronics embedded into one housing
- Harmonic generators (532 nm, 355 nm, 266 nm) integrated internally
- Operation requires only 24 V DC power supply or battery
- Sealed for operation in harsh environments
- Excellent focusability
- Removable wavelength separation module
- Easy to integrate

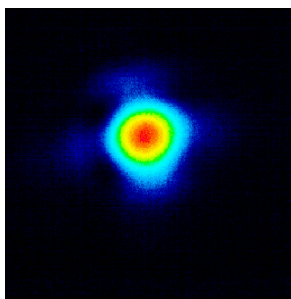
MAIN APPLICATIONS

- LIBS
- BIOTECHNOLOGY
- LiDAR
- RANGING
- ACTIVE IMAGING

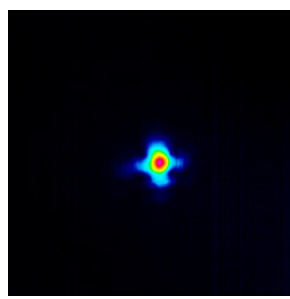
Typical beam profiles



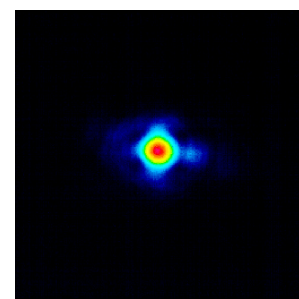
Far field 50 mJ at 1064 nm, 20 Hz



Far field 25 mJ at 532 nm, 20 Hz



Far field 12 mJ at 355 nm, 20 Hz



Far field 9 mJ at 266 nm, 20 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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SPECIFICATIONS

		VRN20-30-G	VRN20-50-G
Repetition rate (Hz)		20	
Energy per pulse (mJ)	1064 nm	30	50
	532 nm	15	25
	355 nm	7	12
	266 nm	5	9
Pulse duration (ns) ⁽¹⁾	1064 nm	< 12	
Beam diameter (mm) ⁽²⁾	1064 / 532 nm	3.8 ± 1.2	
	355 / 266 nm	3.0 ± 0.8	
Beam divergence (mrad) ⁽³⁾	All wavelengths	< 1.5	
Polarization extinction ratio	1064 nm	Better than 100 : 1	
Pulse to pulse energy stability (% RMS)	1064 nm	< 0.5	
	532 nm	< 2.5	
	355 / 266 nm	< 5	
Burst mode energy stability (% at 22 °C)	1064 nm	< 2	
	532 nm	< 4	
	355 / 266 nm	< 6	

(1) Measured at FWHM with fast photodiode and 1 GHz scope

(2) D4σ at output window

(3) D4σ, full angle

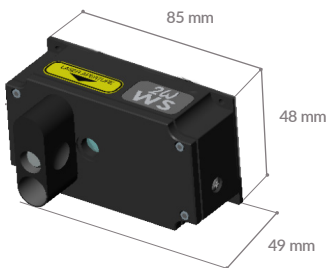
Other information	
Power requirements	24 ± 10 % VDC, 250 W
Cooling	Air cooled, conductively or liquid cooled option
Operating temperature	+ 15 °C to + 35 °C
Storage temperature	- 10 °C to + 70 °C
Laser head sealing	IP 51 sealed
Vibration and shock	Complies with MIL-STD-810

Laser head & electronics

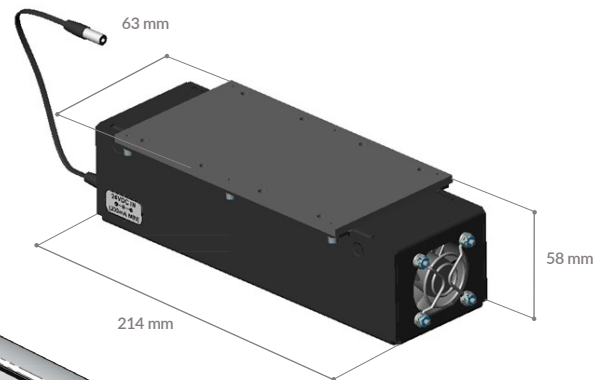


OPTIONS

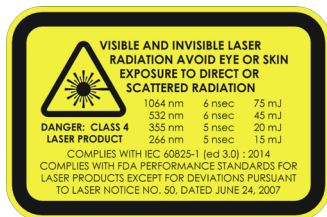
Wavelength separation module



Fan cooled heat sink



Remote box



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