Viron

Laser solutions by **LUMIBIRD**

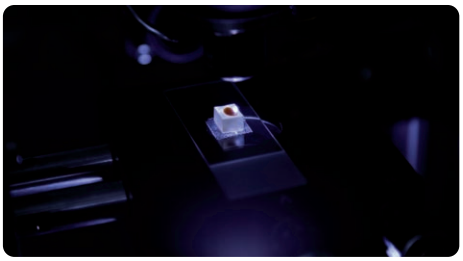
Ultra-compact pulsed diode pumped Nd:YAG laser

MAIN FEATURES

- COMPACT PULSED DIODE-PUMPED SOLID-STATE LASER
- LASER HEAD AND CONTROL ELECTRONICS INTEGRATED INTO ONE HOUSING
- OPERATION REQUIRES ONLY AN EXTERNAL 24V DC STANDARD POWER SUPPLY
- SEALED FOR OPERATION IN VARIOUS ENVIRONMENTS
- EASY TO INTEGRATE

MAIN APPLICATIONS

- LIBS
- BIOTECHNOLOGY
- LIDAR



© LIBS spectroscopy @ Udl ILM lab

DIMENSIONS AND WEIGHT

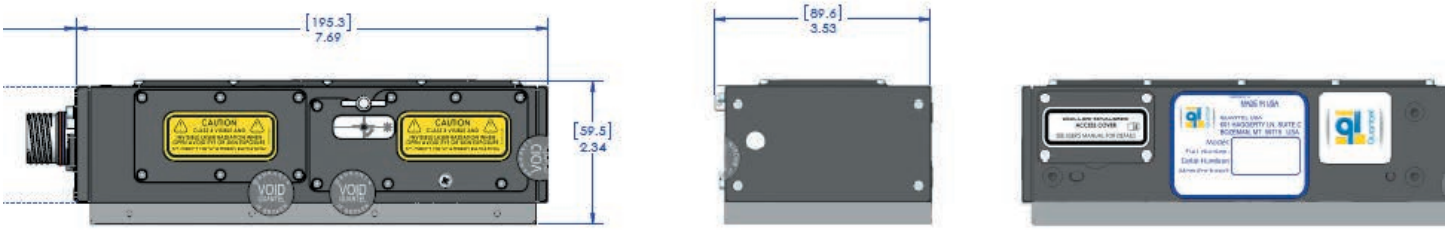
VIRON 1.75 kg [3.85 lbs]

- Ⓐ 195 mm [7.67"]
- Ⓑ 89 mm [3.50"]
- Ⓒ 59 mm [2.32"]

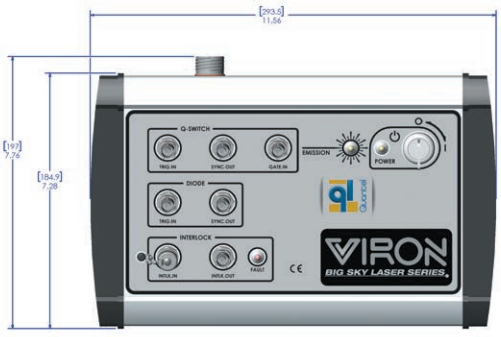
VIRON

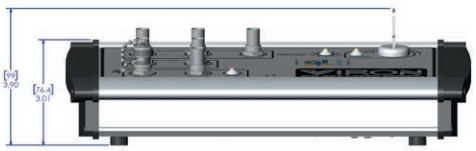
SPECIFICATIONS

		VRN20-30-G	VRN20-50-G
Energy per pulse (mJ)	1064 nm	> 30	> 50
	532 nm	> 15	> 25
	355 nm	> 7	> 12
	266 nm	> 5	> 9
Repetition rate (Hz)		20	
Pulse width (ns)	1064 nm	< 12	
RMS energy stability (%)	1064 nm	< 1.5	
	532 nm	< 3.0	
	355 / 266 nm	< 5	
Burst mode energy stability (%, at 22°C)	1064 nm	< 2.0	
	532 nm	< 4.0	
	355 / 266 nm	< 6.0	
Beam diameter (D4σ, mm)	1064 / 532 nm	3.8 ± 1.2	
	355 / 266 nm	3.0 ± 0.8	
Beam divergence (mrad)	All wavelengths	< 1.5	
Beam ellipticity	All wavelengths	> 0.7	
Warm up time (min, power-up to ready at 22°C)	1064 nm	< 1.0	
	532 / 355 / 266 nm	< 6.0	
Polarization extinction ratio	1064 nm	Better than 100 : 1	
Power supply requirements		24 ± 10 % VDC, 250 W	
Cooling		Air cooled, conductively or liquid cooled option	
Operating temperature range		+ 15 °C to + 35 °C	
Storage temperature range		- 10 °C to + 70 °C	

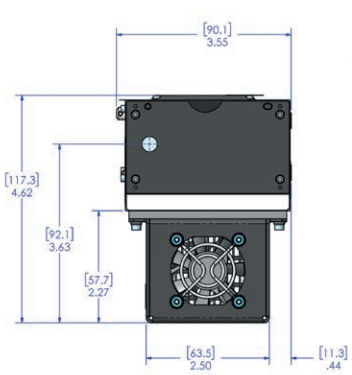


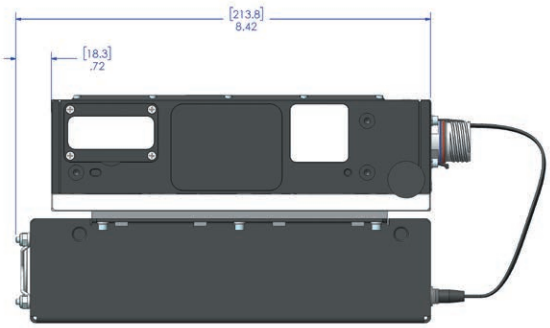
Control Box (optional)





Fan cooled heat sink (optional)





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

VISIBLE AND INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

DANGER: CLASS 4 LASER PRODUCT

1064 nm	6 nsec	75 mJ
532 nm	6 nsec	45 mJ
355 nm	5 nsec	20 mJ
266 nm	5 nsec	15 mJ

COMPLIES WITH IEC 60825-1 (ed 3.0) : 2014
COMPLIES WITH FDA PERFORMANCE STANDARDS FOR LASER PRODUCTS EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 50, DATED JUNE 24, 2007

RoHS