

FALCON

Ultra compact diode-pumped pulsed 1.57 μm laser
OEM version



MAIN FEATURES

- Highly ruggedized diode-pumped solid-state laser
- Compact, portable
- Easy to integrate
- «Eye safe» operation
- Designed for battery operation
- Sealed for operation in harsh environments
- Drop-resistance validated to 1 m
- Electronics integration with respect to your needs

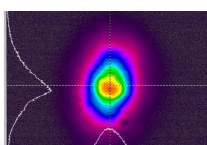
MAIN APPLICATIONS

- LIBS
- BIOTECHNOLOGY
- SPECTROSCOPY
- RANGING
- SENSING

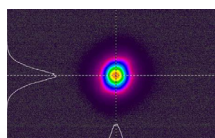
PRELIMINARY SPECIFICATIONS

FALCON 157	
Wavelength	1.57 μm
Energy	5 mJ
Repetition rate	Up to 40 Hz
Pulse width	< 4 ns
Divergence	< 6 mrad
Beam diameter	1.2 mm
Energy shot to shot stability	< 2.5 % (rms)
Operation mode	Burst / Continuous
Operating temperature	5°C to 45°C
Storage temperature	- 40°C to 80°C
Input voltage	+ 24 VDC
Input power	< 20 W
Cooling	Passive convection
Vibration / Shock	MIL-STD-810G / 60G

Typical beam profiles

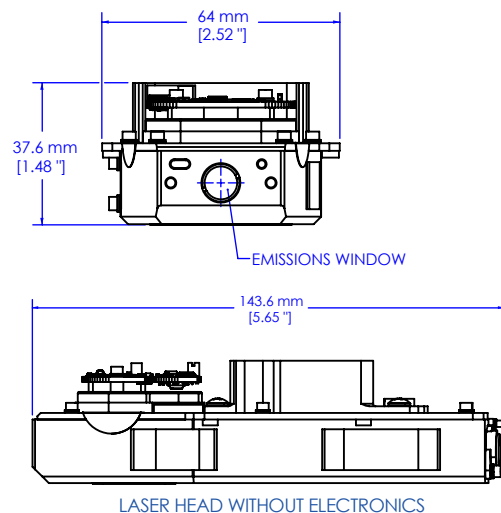


Near Field @ 1.57 μm



Far Field @ 1.57 μm

Laser Head



LASER HEAD WITHOUT ELECTRONICS

Electronics

Contact Lumibird for customized electronics integration

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.



Lumibird has locations across the globe
that are available to provide support
for any product, service or inquiry.
Visit www.lumibird.com to connect with any of our global sites.

