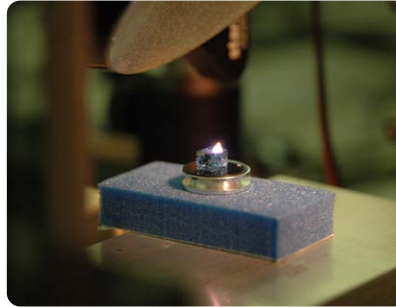


A state of the art laser for double pulse LIBS

MAIN FEATURES

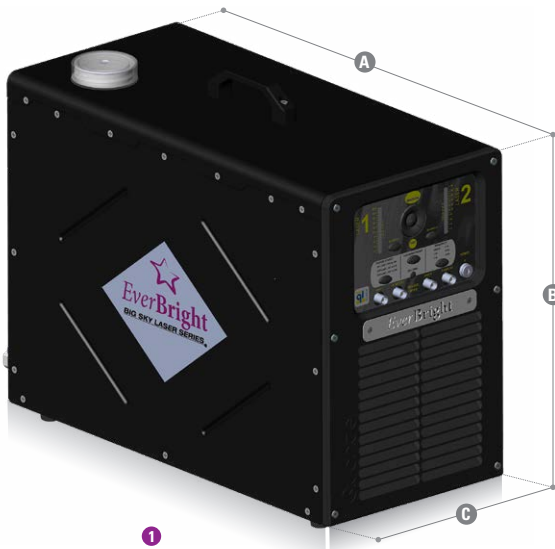
- HIGH FOCUSABILITY
- GRAB AND GO HANDLES
- SYSTEM PARAMETERS STORED IN LASER HEAD
- BUILT TO WITHSTAND HARSH ENVIRONMENTS
- TEMPERATURE CYCLED & VIBRATION TESTED
- QUICK CONNECT UMBILICALS



DIMENSIONS

1 Integrated Cooling and Electronic (ICE)
18 kg [40 lbs]

- A 500 mm [19.7"]
- B 406 mm [16"]
- C 236 mm [9.3"]



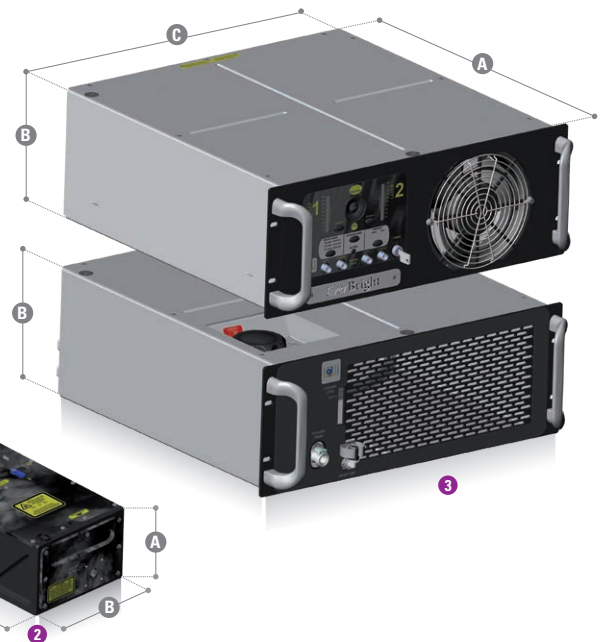
2 Optical laser head
7 kg [15.5 lbs]

- A 102 mm [4"]
- B 151 mm [6"]
- C 400 mm [15.75"]



3 Optional rack mount power supply and cooler
Power supply : 11.4 kg [23.3 lbs] • Cooler : 10.5 kg [25.2 lbs]

- A 457 mm [18"]
- B 178 mm [6.99"]
- C 483 mm [19"]



EverBright
BIG SKY LASER SERIES

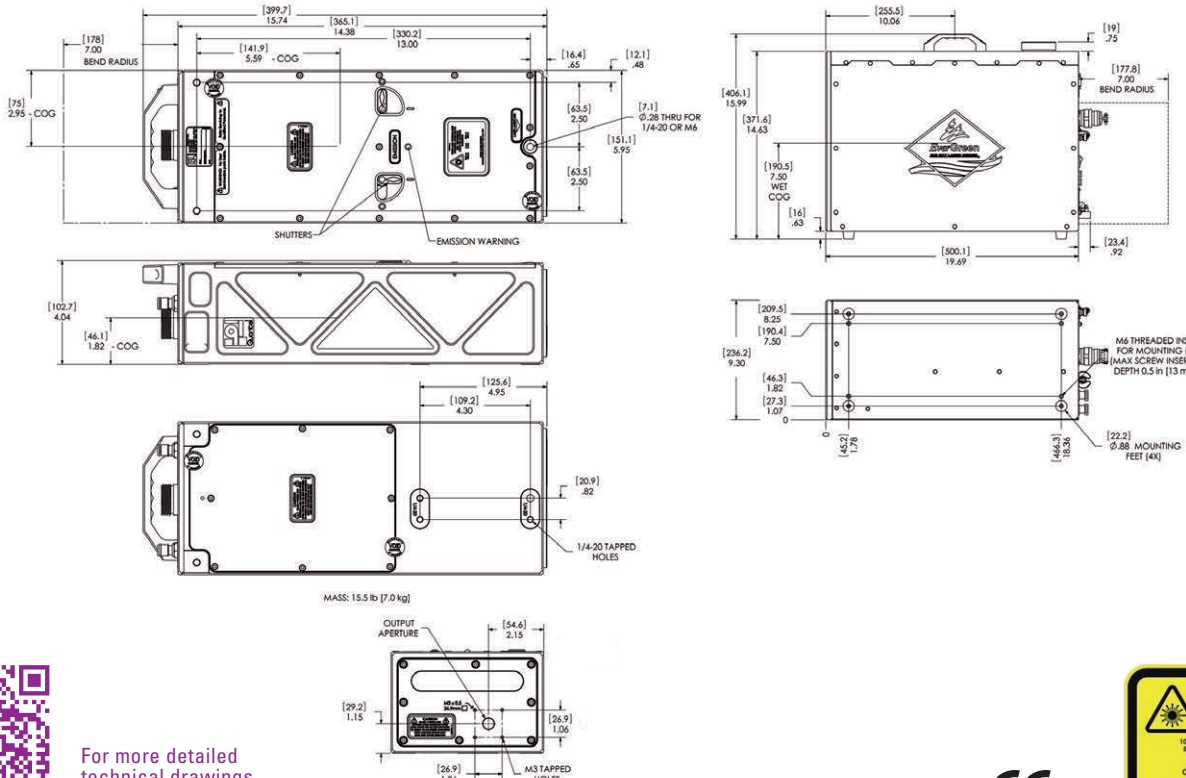
TOUGH, RUGGED, RELIABLE. SIMPLY EASY TO USE

| MODEL | EverBright 150 | EverBright 250 | EverBright 120 |
|---|-----------------|----------------|----------------|
| Wavelength (nm) | 1064 | | |
| Pulse repetition rate (Hz) | 15 | | 25 |
| Energy (mJ)* | 150 | 250 | 120 |
| Pulse-to-pulse Energy stability (% RMS) | < 2 | | |
| Energy drift Over 8 hours (%) | 10 | | |
| Pulse width (ns)** | ≤ 10 | | |
| Near field beam Diameter (mm) | < 6.35 | < 6.35 | < 5.0 |
| Beam divergence (mrad)*** | < 1.5 | | |
| Shot to shot Pointing stability (μrad) | < 100 | | |
| Far field beam Overlap (μrad) | ± 100 | | |
| Near field beam Overlap (μm) | ± 100 | | |
| Polarization | cross polarized | | |
| Far field beam profile | gaussian | | |

| | |
|-------------------------------|--|
| Operational temperature range | 18°C - 28°C |
| Storage temperature range | 5°C - 50°C |
| Power requirements | 100-240 VAC 50-60 Hz universal input |
| Flashlamp lifetime | 100 million shots |
| Coolant | distilled / deionized water |
| Triggers | 5 V nominal into 50 Ω or 5 V nominal into high-impedance, user selectable |
| Laser head operation | laser head assembly can operate in any orientation |
| Laser head sealing | sealed to IP 67 specification Do not submerge in water. |
| Power supply sealing | sealed to IP 21 specification |
| Laser vibration compliance | test of every unit in production by a select test procedure following MIL-STD-810F |
| Cable length | 3 meters (9.84 feet) optional 10 meters (32.81 feet) |

All specifications are at 15 Hz or 25 Hz

* Double pulsed system: energy given for each pulse ** FWHM at nominal energy *** Full angle containing 86.5% energy



For more detailed technical drawings, please visit www.quantel-laser.com



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.

