

Z-BOLT® Green FORENSIC Lasers

Portable Detection & Imaging of Prints & Biologicals
Expeditionary Labs / Crime Scenes / Battlefield Illumination

SUMMARY: Advances in laser technology lowers procurement costs; multiplies field unit deployments; retires less effective LED forensic lamp sources; redefines expeditionary & crime scene “portability”.

Laser Spectral Brightness Superior to LED

Green (532nm wavelength) lasers have been repeatedly tested and proven to be superior to LED light sources as a tool for the detection & imaging of biological & print evidence in the field and in the lab. Superior spectral brightness provides the operator with a powerful and narrow wavelength band to excite or fluoresce biological evidence for further investigation and photography. Special operator glasses or cameras then filter & translate this narrow wavelength light source into high contrast images – evidence



Z-Bolt® C-PRINT

more easily developed and studied than with a less effective LED based source.



Man-Portable, Adaptable, Affordable

Z-Bolt® C-PRINT Lasers are similar in dimensions to a small-size flashlight, a feather-light 10 ounces. Easy to transport, carry, and operate, the C-PRINT's capabilities compare favorably to the Coherent TracER at 45 pounds. The TracER is marketed as delivering “ultimate portability”, but is too heavy to effectively accompany LE, SOF, NSW, EOD, or CID teams into the field. Transported in a large hard case, the TracER is too unwieldy for rotary wing or vehicle transport. In contrast, the Z-Bolt® C-PRINT is MOLLE or belt portable for on site, on the battlefield forensic detection & effective imaging at expeditionary forensic labs; at crime scenes; at remote, isolated FOBs. The C-PRINT features digital variable power; beam-spot size control; an internal variable sealed zoom lens system; battery “Low-Power” indicator; and easy access power interlock.

Use the Z-Bolt® C-PRINT for Field Work. . .
AND as an Effective, Portable, & Affordable Lab Laser Replacement

C-PRINT pricing is reasonable - allowing for wider field deployment; expanded theater coverage; increased collection opportunities. Approx. **\$8,000 ~ \$9,500 vs. [Coherent TracER](#) at \$28,000 ~ \$48,000.** LED forensic lights are currently the only portable, low-priced alternative to Coherent lasers, but lack the intense spectral brightness required for quality evidence imaging. Z-Bolt® Forensic Lasers are designed to replace these less effective LED lights, sustain budget viability, & deliver increased field portability & practicality. The C-PRINT ships with orange 22 filter safety glasses; rechargeable battery kit; nylon pouch for field use – all in a hard case for stowage & transport.



Coherent TracER, 45 lbs. \$48,000

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First Production 1st QTR 2020



Specification	Values
Laser Wavelength	532nm (Green)
FDA Safety Classification	Class 3B
Power Output (Before Diffusion)	300mW
Weight (2 pcs CR123A installed)	285 grams / 10 ounces
Operating Voltage / Current Draw	2VDC / 2.0A
Laser Casing Material	Billet Aluminum Housing, MIL-SPEC Type 3 Anodizing
Beam Characteristics	TOP-HAT Laser Beam Profile
Power Supply	2 pcs CR123A, Rechargeable
Dimensions	Length – 194mm, 7.62 inches Width – 2.33 in., Height - 1.75 in.

Z-Bolt® C-PRINT Laser Kit Contents:

- 1 pc C-PRINT Green Laser – 532nm
- 1 pc Battery Charger (Lithium-Ion)
- 4 pc Rechargeable CR123A Lithium-Ion Batts
- 1 pc Orange 22 Filter Laser Safety Glasses
- 1 pc Nylon Laser Carry Pouch – Field Use
- 1 pc User Guide & Operators Manual
- 1 pc Hard Case for Transport



Design Features Include:

- Variable Digital Dynamic Laser Power Controller
- Large Spot-Size Control – Number Scale Target
- Internal Variable Sealed Zoom Lens System
- Rugged Tethered Lens Cap Protector
- Large Recessed Fire Control Button
- Battery “Low-Power” Indicator
- Easy Access Power Interlock
- Multiple Lanyard Ports

Z-Bolt® C-PRINT Kit