

LEP FLASHLIGHTS – FROM LASER TO LIGHT: HOW LEP WORKS

LEP stands for '**Laser Excited Phosphor**'. A cutting-edge lighting system that delivers an ultra focused, long range beam using laser precision. Unlike traditional LED flashlights that scatter light for general illumination, LEP flashlights concentrate light into a high intensity beam capable of reaching distances well beyond 1,000 metres. This makes them ideal for tactical, search and rescue, and long distance spotting applications.

How LEP Works

LEP technology converts a focused blue laser into broad-spectrum white light using a phosphor reaction. The result is a beam with minimal spill and maximum reach. At the core of every LEP flashlight is a precision optical system:

- A blue laser diode generates the initial beam
- A collimating lens aligns the laser into a narrow stream
- The beam strikes a phosphor layer, converting it into visible light
- The output is shaped and projected through a glass lens, forming a concentrated beam with extreme throw

This process produces a beam profile that LED systems simply can't match intense, accurate, and built for distance.

Why Choose LEP?

1. **Extreme Throw Distance** – Spot targets over 1km away with precision
2. **Minimal Spill** – Focused beam with no wasted light
3. **Energy Efficient** – High brightness with lower power draw
4. **Durable Design** – Built for harsh environments and professional use
5. **Optical Precision** – Engineered for accuracy in every beam

PHOSPHOR LAYER

BLUE LASER EMITTER

GLASS BEAM CONTROL LENS



Powerbank

Battery status indicators

LEP
Laser Excited Phosphor

NEW

LaserTron



250
LUMENS



2.5H
RUNTIME



1200M
BEAM



IPX4
RATED



4000mAh, 14.8Wh, Li-ion

MODES High



4hrs charging time



182 x 45.7mm Ø



305g

CODE NSLASER-TRON

Supplied with Type C USB charging cable

Optional Accessories:

UK or EU adaptor: CH-USB-UK/EU

12/24V: CHIC3.7-LI-ION

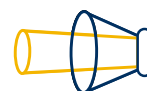
RECHARGEABLE LEP FLASHLIGHT WITH LONG DISTANCE BEAM

Combines pinpoint spot and wide-angle beam options with rugged build and extreme throw distance—engineered for tactical, search, and precision lighting.

- Dual beam output: narrow LEP spot and wide-angle flood for flexible use
- 1200m beam reach with minimal spill—ideal for long-range visibility
- Type III hard anodised aluminium housing for enhanced durability
- Textured body for secure grip in wet or gloved conditions
- Heavy-duty wrist strap for safe handling and portability
- Battery status indicator for real-time power monitoring
- IPX4 waterproof design with 2.5-hour runtime



LI-ION
BATTERY



Zoom function

2 Beams
Spot + Flood



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out more

