

Revelation 445/520nm Dual Laser



The **Revelation 445/520 nm Dual wavelength forensic** from Laser Innovations Ltd is a widely used a validated laser system for evidence recovery. The lightweight design (4 kg) provides 2 laser guns one Blue and one Green which are both easy to clean with 10% bleach solution. This laser provides 10 Watts Blue at 445nm and 8 Watts Green at 532nm.

The system includes an integrated touch screen for wavelength selection and power level selection. Like all the Revelation lasers the beam diffuser produces a square beam shape with uniform power intensity across the beam a feature liked by forensic practitioners for grid type searching.



Specifications

Wavelength	445nm and 520nm (Selectable)
Beam Quality	Uniform speckle free illumination
Output Power	10W @ 445 nm; 8W @ 532 nm
Bandwidth	Less than 0.5 nm
Control	Touch screen programming to control output power 1W – Max Automatic wavelength detection dependent on which detector is connected 'Dead man finger' (Press for output / release no output) Override function to switch off dead man finger via touch screen control
Interlock	Safety interlock included (DB9 / D-sub connector)
Safety Standards	Compiles with EN61010-1/IEC 61010-1 and EN60825-1 / IEC60825-1

Power requirements' for battery charging

Mains Voltage	90-240V AC
Frequency	50 Hz / 60 Hz
Power Consumption	70W Maximum; 60W Typical

Battery

Input Voltage	12.6 VDC
Battery Lifetime	Approx 7 Hours typical use @ 445nm per battery Approx 3.5 hours typical use @532nm per battery
Lifetime	>10,000 hours

Operating Conditions

Ambient temperature Range	5-40°C
Humidity	8-85%, non-condensing
Dimensions	22cm (L) x 11cm (W) x 16cm (H)
Weight	<4Kg

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Kit Includes

- Ruggedised shock proof, water proof, carrying case
- Laser rated thin film plastic safety goggles x 2 (Yellow and Orange)
- Camera Filters (Yellow and Orange) with 62mm or 67mm Attachment
- User manual

Applications

- Latent fingerprints
- Naturally fluorescent fingerprints
- Body fluids
- GSR
- Bone fragments
- Hair Fibres
- Bruises

