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| Gamme | High-Power Diode Modules |
| Title | MaxxPower 520 nm |
| Reference | LBX-520 |
| Description | <p>The MaxxPower LBX-520 is a compact 520 nm laser source that exhibits the highest optical power over an industry-standard 100x40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use.</p> <p>This model is a trusted solution for illumination or wide-field microscopy.</p> <p>Key features</p> <ul style="list-style-type: none"> • $\pm 1.0\%$ long-term power stability; low optical noise • Modulation up to 1 MHz • Integrated control electronics <p>Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines.</p> |

Product Variations

| Part Number | Puissance |
|---------------------|-----------|
| LBX-520-800-HPE-PPA | 800mW |

Optical Characteristics

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|---|--|
| Emission wavelength | 520 nm |
| Tolerance | (± 5 nm tolerance) |
| Control modes | Automated power control (APC), Automated current control (ACC) |
| Optical noise | ? 0.2% rms, 10Hz-20MHz bandwidth |
| Spectral linewidth | ? 2nm |
| Analog modulation function - Rise / fall time | ? 200ns |
| Analog modulation function - Bandwidth | ? 1MHz |
| Beam diameter, $1/e^2$ level, 50mm from the beam aperture | 2.7 x 0.8mm |
| Beam divergence, $1/e^2$ level full beam, far field | 0.2 x 2.6mrad |

General Specifications

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|----------------------------------|---------------------------------------|
| Supply voltage | 9V to 12V |
| Operating temperature | 10°C to 50°C |
| Storage temperature and humidity | 0°C to 60°C |
| Warm up time | ?2 minutes |
| Interfaces | USB, RS-232, direct modulation inputs |
| Dimensions (laser head) | 100x40x40 mm |
| Weight (laser head) | ?330 g |
| Controler dimensions | 106x126x56 mm |

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|--------------------|---|
| Compliance | CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11 |
| Laser class | 4 |
| Warranty | 24 months or 10000 hours, whichever occurs first |

Options

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|-----------------|--------------------------|
| Option 1 | Multimode fiber coupling |
| Option 2 | Heat management |
| Option 3 | Band-pass filter |
| Option 4 | OEM version |