

## L04 Specifications

<b>Photodetector:</b>	4mmX4mm Lateral Effect (L04)
<b>Usable Beam Size range:</b>	50 $\mu\text{m}$ < diameter < 4 mm
<b>Position Measurement range:</b>	4mm diameter circle maximum centered on the detector center
<b>Position resolution:</b>	Down to 0.1 $\mu\text{m}$ at 50Hz digital filter plus averaging
<b>Position accuracy:</b>	+/- 6 $\mu\text{m}$ over 4mm diameter
<b>Operational Spectral range:</b>	350 – 1100 nm
<b>Power range:</b>	10 $\mu\text{W}$ to 10 mW
<b>Power Accuracy:</b>	+/-5%

(\*) To maintain full calibration accuracy, attenuating optical filters (ND) may be necessary for operation with beams greater than 1 mW. Saturating “non-linear” effects depend on the beam size, type and wavelength. Caution should be exercised when using the lateral effect detector above 1-3mW.