

# LAM Beam Analyzer



- High power beam measurements at the working tabletop.
- Built-in air-cooled sampler
- Industry's leading knife-edge system
- Unique tomographic image reconstruction
- Beam measurements down to 35 microns and up to 8 mm
- Accurately measures profile, position and power

## Specifications

<b>Laser Type</b>	CW
<b>Beam width resolution</b>	For beams > 100 $\mu\text{m}$ in size: 1 $\mu\text{m}$ . For beams <100 $\mu\text{m}$ in size: 0.1 $\mu\text{m}$
<b>Beam Size</b>	35 $\mu\text{m}$ - $\varnothing$ 8 mm
<b>Spectral Response</b>	Si: 350 - 1100 nm. Contact factory for other wavelengths
<b>Resolution (H x V pixels)</b>	Adaptive according to beam size
<b>Sensor Active Area (mm)</b>	9 x 9
<b>Number of Blades</b>	7 blades with image tomographic reconstruction
<b>Gain Control</b>	Automatic
<b>Frame Rate</b>	5 fps
<b>Working Distance</b>	49 mm (contact factory)
<b>Maximum BPP</b>	Max. input angle – 25 deg.
<b>Maximum power density</b>	1,000,000 W/cm <sup>2</sup> (contact factory)
<b>Power measuring</b>	With user's pre-calibration at a selected point

<b>Power range @900/1070 nm</b>	Up to 4 kW (with filters & pressurized air-cooling, some restrictions may apply)
<b>Output power from back side of beam sampler</b>	With beam dump – no significant output power
<b>Cooling conditions</b>	Filtered pressurized air of 6-8 Bar
<b>Sensor type</b>	Silicone (Si) - Knife-edge technology
<b>Beam width accuracy</b>	$\pm$ 1.5%
<b>Power accuracy</b>	$\pm$ 5%
<b>Position resolution</b>	1 $\mu\text{m}$
<b>Pixel Size</b>	Adaptive according to beam size
<b>Pixel Bit Depth</b>	12 bits
<b>Background Subtraction</b>	Automatic
<b>Power Requirements</b>	~2.5 Watt (Via USB 2.0 interface)
<b>Dimensions (L x W x H) in mm</b>	147 x 105 x 48
<b>Weight (typical)</b>	Sensor head with cable ~ 1500 gr.
<b>Min. Hardware Requirements</b>	CPU i3 1.6 GHz, 4 GB RAM
<b>Interface</b>	USB 2.0, Windows 7/8/10 (32 & 64 bit)
<b>Operating Temperature</b>	0° – 35° C

## Ordering Information

**LAM-BA:** 7-blades, Si detector with high power attenuator and mounting adapter.

# LAM Beam Analyzer

