

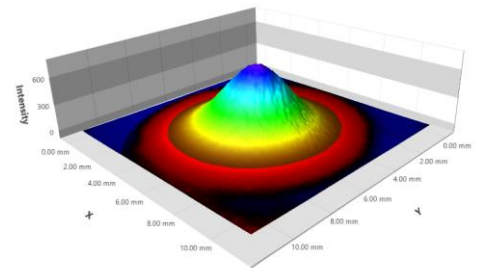
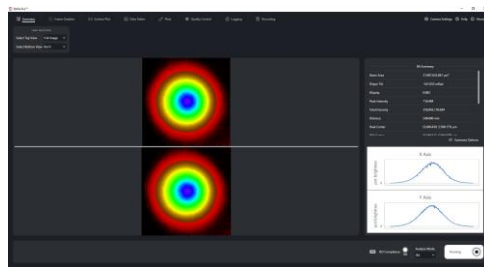
High Power BA-CAM®

High Power BA-CAM

The BA-CAM **B**eam **A**nalyzer **C**AMera and software enables laser beam measurement, analysis and monitoring of multi-kilowatt CW and pulsed lasers. The system design is based on the international standards ISO 13694 which relate to lasers and laser related equipment and laser beam spatial metrics.

In every laser application, the laser beam profile provides valuable information for the most efficient use of the laser. By monitoring the laser beams spatial profile, circularity, centroid, astigmatism values, the system provides early warning of any problems with the laser and entire beam delivery optical system. This relates to increased quality, process reliability, and reduced scrap.

The High Power BA-CAM is modular in design and can be configured for most applications and laser wavelengths. The design contains no moving components and provides instantaneous measurements and analysis of the laser beam and all active optical elements.



The High Power BA-CAM utilizes a patented[†] ghost suppression technology and a pending patent technology on a compact attenuator which provides the most compact, lightest weight profile measurement system on the market. Powers of more than 1 kilowatt can be measured with the right beam dump attached.

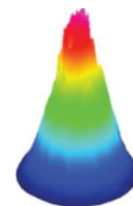
BA-CAM configurations available for powers up to 30 kilowatts and fiber core sizes from single mode to any multimode size.

[†]Covered by one or more of the following US patents: 10708537 and 10942275

Visit our website at www.HAASLTI.com for additional information and product videos

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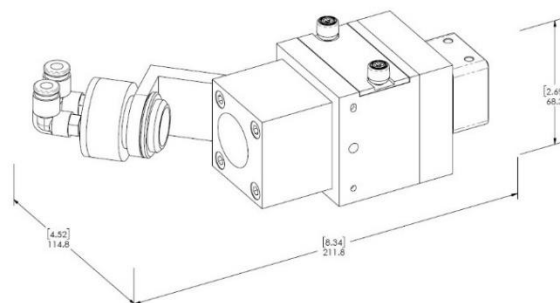
Features

Optical	
Inherent Attenuation	< -8 Optical Density
Maximum Beam Diameter	7.0 mm
Minimum Spot Size	48 microns
Auto Tracking of ROI	Software Auto Sizes and Tracks Region of Interest (ROI)
QC Measurement	All Beam Quality Metrics Monitored and Flagged for External Interlocking Control
Extended Report Generations	ISO Report Generator of all Beam Quality Metrics
Logging & Recording Capability	All Beam Quality Metrics and Record Live Camera Measurements for Offline Playback
Attenuation	Additional space for optical or attenuation filters
Optional High-Power Attenuator	For Power Levels to 30 kilowatts and above
Alignment	Easy Setup, Alignment and Calibration
Single or Dual Camera	Measurement with Single or Dual Cameras

Specifications

Parameter	Description	Units
Sensor	CMOS, 1" (2.5:2)	
Pixel Area	2590 x 2048 Monochrome	
Pixel Size	4.8 x 4.8	µm
Active Sensor Area	12.44 x 9.83	mm
Scanning System	Progressive (Global Shutter)	
Gray Level	10	bits
Frame Rate (in 8-bit mode)	20	fps
Trigger	Auto or External (DIN 6)	
†Power Consumption	3.9	W
Interface	POE 1 GigE	
Dimensions (L x W x H)	~ 211.8 x 114.8 x 68.3	mm
Weight	~0.9	kg
Temperature Range	0 - 50	°C
Relative Humidity (non-condensing)	20 - 80	%
Wavelengths	350 - 1200	nm
Built-in Attenuation	-0.8	OD

†Power Over Ethernet (POE) Injector or switch, 48V 15.4W Power Over Ethernet, IEEE 802.3af Compliant, 10/100/1000Mbps and Category 5e, 6, or 6a cables only are not included with system.



Specifications subject to change without notice. Consult a Haas Laser Technologies engineer (973) 598-1150 for the latest specification changes or any additional assistance. Technical drawings of our products are available at www.haaslti.com. Contact sale@haaslti.com for ordering information.

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