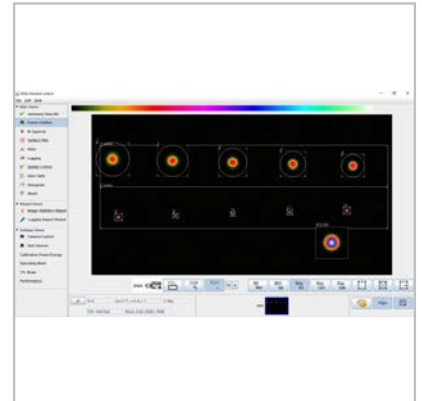


The **Beam Waist Analyzer Camera (BWA-CAM)** can measure the laser beam waist metrics for any focal length of >100 mm or more without a focus adapter. Lens systems with focal lengths <100 mm will require an optional focal length adapter which mounts into the entrance port of the **BWA-CAM** or optionally use the short body **BWA-CAM**.



Beam Waist Analyzer Camera (BWA-CAM 20/20) Features

M ² measurement	real time with no moving optics or hardware
Rayleigh range	<200 microns to >48mm
First and third rayleigh range on one sensor with a patent pending intensity filter	
Auto tracking of ROI's	software auto sizes and tracks all ROI's
QC measurement	all beam quality metrics monitored and flagged for external interlocking control
Extended report generations	ISO report generator of all beam quality metrics
Extended logging capabilities	all beam quality metrics
Attenuation	6 to >10 OD attenuation built-in
Optional high power attenuator	for power levels to 30 kilowatts
Alignment	easy setup, alignment and calibration
Focal lengths	≥30 mm (with short body camera option)

Beam Waist Analyzer Camera (BWA-CAM 20/20) Specifications

Sensor	CMOS Chip, 2/3" (2MP), 1" (4MP), 1" (~9MP)
Resolution	2048 x 1088; 2048 x 2048 and 4112 x 2176 monochrome
Pixel size	5.5 µm x 5.5 µm (2 and 4MP) and 3.45 µm x 3.45 µm (~9MP)
Active sensor area	11.26 mm x 5.98 mm; 11.26 mm x 11.26 mm and 14.18 mm x 7.5mm
Scanning system	global shutter
Sensor SNR	< 2.5 bit (Gain 0 dB)
Gray level	8 bit (12 bit for 9MP sensor)
Frame rate	< 50 fps
Trigger	Auto or external (using POE or Hirose connector)
Power consumption	< 3.6 W and < 4.5 W for ~ 9MP sensor
Connection	GigE Power Over Ethernet (POE)
Camera housing dimensions (l x w x h)	106.3 x 76.2 x 69.9 mm ³
Camera housing weight	476 g
Temperature range	-5 to 65 °C
Relative humidity (non-condensing)	5% to 95%
Wavelength range	190 to 1100 nm
Built-In attenuation	4.0 to >10.0 OD

CE certified