

Multiple Scanning Knife-Edge beam profiler

OS-BA-SAT

Catalog Code W5033

A compact stand-alone type beam measuring device with an integrated touch screen.



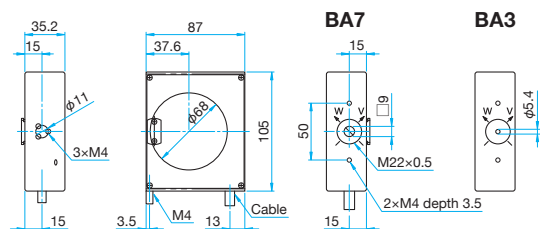
- Supports a wide wavelength measurement range (190nm to 2700nm), and capable of measuring beam profile, beam size, beam shape, position and beam intensity. It measures beam size between 3μm and 9mm with 0.1μm resolution.

[Features]

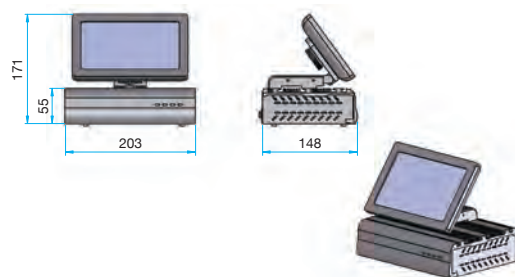
- 12-bit A/D converter enables high resolution sampling.
- Real-time beam profiling displays beam size, beam intensity and Gaussian fits.
- Capable of calculating the beam gravity center and ellipticity of loaded data. In addition, it can save external control and logging data in Excel or text (.txt) format using RS232C and TCP/IP communication.
- USB control type is available as option.

Outline Drawing

(Units: mm)



Stand Alone Unit Drawing



USB control type is available as option.

Specifications for Sensorheads

Sensor type	Silicon (Si) 350 – 1100nm UV-Silicon (UV-Si) 190 – 1100nm InGaAs (IR) 800 – 1800nm IR Enhanced (IR) 1200 – 2700nm
Spectral range	3 for BA3 heads 7 for BA7 heads
Beam size range	3μm – 5mm BA3-Si, BA3-UV 15μm – 10mm BA7-Si, BA7-UV(Oval) 15μm – 9mm BA7-Si, BA7-UV(Round) 3μm – 3mm BA3-IR3, BA3-IR3-E 15μm – 3mm BA7-IR3, BA7-IR3-E 3μm – 5mm BA3-IR5 15μm – 5mm BA7-IR5
Beamwidth resolution	1μm for beams >100μm in size, 0.1μm for beams <100μm in size
Beamwidth accuracy	±2%
Power accuracy	±5% for Si and UV-Si heads, ±10% for InGaAs heads
Power range	10μW to 1W with filters for Si and UV-Si heads 10μW to 5mW (no Filters provided) for the InGaAs heads
Power resolution	0.1W/cm ² (no Filters provided)
Position accuracy	±15μm
Position resolution	1μm
Operating Temperature	10°C – 50°C
Weight	Sensor head 755 gr with cable, Stand alone unite 1.95Kg with built-in touch screen
Measurement rate	5Hz

Specifications for touch screen

LCD	LCD 7" wide Resolution 800×400 Contrast ratio 350:1 Processor Intel Atom D525 1/8Ghz, one 16GB CF (32 optional) Windows®7 pro 4×RS-232 2LAN PORT.
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Part Number	Specifications
OS-BA3-Si-SAT	3-blades, Si detector 5mm circular
OS-BA7-Si-SAT	7-blades, Si detector 9mm square
OS-BA3-UV-SAT	3-blades, UV-Si detector 5mm circular
OS-BA7-UV-SAT	7-blades, UV-Si detector 9mm square
OS-BA3-IR3-SAT	3-blades, InGaAs detector 3mm circular
OS-BA3-IR3E-SAT	3-blades, InGaAs Enhanced 3mm circular
OS-BA7-IR3-SAT	7-blades, InGaAs detector 3mm circular
OS-BA7-IR3E-SAT	7-blades, InGaAs Enhanced 3mm circular
OS-BA3-IR5-SAT	3-blades, InGaAs detector 5mm circular
OS-BA7-IR5-SAT	7-blades, InGaAs detector 5mm circular