

BEAM'R2 - BEAMMAP2



Scanning Slits Beam Profilers



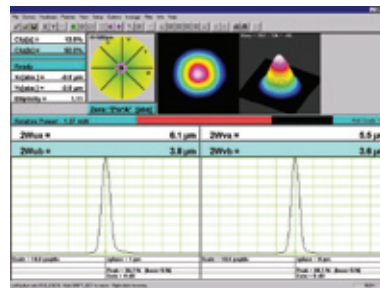
Beam'R2
BeamMap2

Key Features

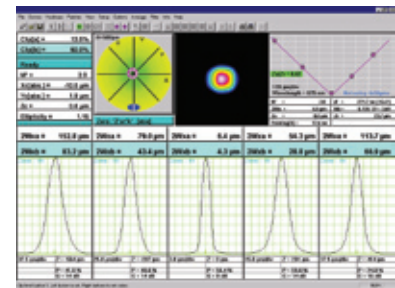
- 1 **Plug and Play**
Direct USB2.0 connection
- 2 **Beam'R2**
Each single plane XY beam profiling head contains a 2.5 μm slit pair for high dynamic range slit mode & a 25 μm slit pair for 0.1 μm resolution Knife-Edge mode.
- 3 **BeamMap2**
Adds multiple Z-plane scanning to allow the measurement of:
 - . Real-time XYZ profiles, Focus position
 - . Real-time M2, Divergence, Collimation
- 4 **True2D Slits**
0.4 μm thick metallic multilayer films on a sapphire substrate avoid the tunnel effect of air slits.

Software

Beam'R2



BeamMap2



Accessories

» **CUB and CUB-UV Beam Splitters**
Beam splitter cubes that take a fixed ratio beam sample.



» **Variable Attenuator**
ND filters mounted on a roulette for variable attenuation.



Monitors

Energy Detectors

Power Detectors

OEM Detectors

Calorimeters

Diffractive Optics

Beam Diagnostics

BEAM'R2 - BEAMMAP2

SPECIFICATIONS

Models	Beam'R2	BeamMap2
Slit-Scan Planes	XY	XYZ Θ Φ
Scanned Area (Si)	6 x 5 mm	6 x 5 mm

MEASUREMENT CAPABILITIES	Beam'R2	BeamMap2
Dimensions of Capture Region		
Si	5 mm	5 mm
InGaAs	3 mm	3 mm
Extended InGaAs	1.5 mm	1.5 mm
Laser Types	CW or Pulsed (> 100 kHz)	CW or Pulsed (> 100 kHz)
Waist Diameters ($2\omega_0$)	0.5 - 1500 μ m	0.5 - 1500 μ m
Waist Diameter Resolution	0.2% of beam diameter	0.2% of beam diameter
Best Resolution	0.1 μ m	0.1 μ m
Precisions		
Beam Divergence	N/A	\pm 1 mrad over a \pm 100 mrad range
Beam Pointing	N/A	\pm 1 mrad over a \pm 100 mrad range
Beam M ²	N/A	\pm < 5%, M ² = 1.0 to > 20
Waist Centroid Position	\pm 2 μ m rms	\pm 2 μ m rms
Auto Gain Range	40 dB (10 000:1)	40 dB (10 000:1)
Update Rate	5 Hz	5 Hz

WAVELENGTH RANGES

Si	190 - 1050 nm	190 - 1050 nm
InGaAs	675 - 1750 nm	675 - 1750 nm
Extended InGaAs	0.8 - 2.5 μ m	0.8 - 2.5 μ m

DAMAGE THRESHOLDS

Maximum Average Power	1 W	1 W
Maximum Irradiance		
> 500 nm	0.5 mW/ μ m ²	0.5 mW/ μ m ²
< 500 nm	0.25 mW/ μ m ²	0.25 mW/ μ m ²

PHYSICAL CHARACTERISTICS

Scanned Areas		
Si	6 x 5 mm	6 x 5 mm
InGaAs	4 x 5 mm	4 x 5 mm
InAs	2.5 x 5 mm	2.5 x 5 mm
Dimensions	61.0H x 67.3W x 68.2D mm	61.0H x 67.3W x 68.2D mm
Weight (head only)	450 g	450 g

ORDERING INFORMATION

Full Product Names		
Si	BR2-Si	BMS2-4XY250*-Si
InGaAs	BR2-IGA	BMS2-4XY250*-IGA
Extended InGaAs	BR2-IGA-X.X	BMS2-4XY250*-IGA-X.X

* Default unit has 250 μ m plane spacing. 50, 100, 500, 750 & 5000 μ m plane spacings available
 Specifications are subject to change without notice