BEAMR2-BEAMMAP2

Scanning Slits Beam Profilers

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 Dual Sensors
Each model is available with dual sensors, for the largest wavelength range possible:
- DD-2.0: Si + InGaAs
- DD-2.4: Si + Extended InGaAs

5 True2D Slits
0.4 µm thick metallic multilayer films on a sapphire substrate avoid the tunnel effect of air slits

AVAILABLE MODELS


Beam'R2
Single Sensor


BeamMap2
Dual Sensors


Beam'R2-DD
Single Sensor


BeamMap2-DD
Dual Sensors

AVAILABLE SENSORS

Single Sensor:

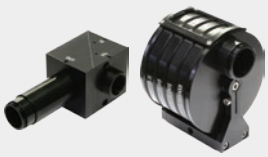
Si	190 - 1000 nm
InGaAs	650 - 1800 nm

Dual Sensors:

Si + InGaAs	190 - 1800 nm
Si + Ext. InGaAs	190 - 2500 nm

ACCESSORIES


Stand with Delrin Post
(Model Number: 200428)


CUB, CUB-UV & EAM-2
Beam Splitters and Attenuators


Pelican Carrying Case

SEE ALSO

ACCESSORIES FOR BEAM DIAGNOSTICS	184
LIST OF ALL ACCESSORIES	186

BEAMR2-BEAMMAP2

SPECIFICATIONS

MODELS	BEAM'R2	BEAMMAP2
SLIT-SCAN PLANES	XY	XYZθΦ
MEASUREMENT CAPABILITY		
Dimensions of Capture Region		
Si	4 mm	
InGaAs	3 mm	
Dual: Si + InGaAs	Si: 4 mm + InGaAs: 3 mm	
Dual: Si + Extended InGaAs	Si: 4 mm + Extended InGaAs: 2 mm	
Laser Types	CW or Pulsed	
Waist Diameters ($2\omega_0$)	0.5 - 1500 µm	
Waist Diameter Resolution	0.2 % of beam diameter	
Best Resolution	0.1 µm	
Precisions		
Beam Divergence	N/A	± 1 mrad over a ± 100 mrad range
Beam Pointing	N/A	± 1 mrad over a ± 100 mrad range
Beam M^2	N/A	± < 5 %, M^2 =1.0 to > 20
Waist Centroid Position	± 2 µm rms	
Auto Gain Range	40 dB (10 000:1)	
Update Rate	5 Hz	
WAVELENGTH RANGES		
Si	190 - 1000 nm	
InGaAs	650 - 1800 nm	
Extended InGaAs	0.8 - 2.5 µm	
DAMAGE THRESHOLDS		
Maximum Average Power	1 W	
Maximum Irradiance	0.5 mW/µm²	
PHYSICAL CHARACTERISTICS		
Dimensions	61.0H x 67.3W x 68.2D mm	
Weight (head only)	450 g	
Cable	3 m, USB 2.0, A to mini-B5	
ORDERING INFORMATION		
Full Product Names		
Si	BR2-Si	BMS2-4XY250*-Si
InGaAs	BR2-IGA	BMS2-4XY250*-IGA
Dual: Si + InGaAs	BR2-DD-2.0	BMS2-4XY250*-DD-2.0
Dual: Si + Extended InGaAs	BR2-DD-2.4	BMS2-4XY250*-DD-2.4

* Default unit has 250 µm plane spacing. 50, 100, 500, 750 & 5000 µm plane spacings available

Specifications are subject to change without notice

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