

UV-NIR LASER BEAM PROFILER



CinCam Application Focus Beam Profiler - CinSpot FBP-50M-

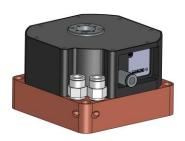
The Focus-Beam-Profiler FBP-50M is a compact and fully automated tool to measure the focused laser beam from the UV to NIR range. The integrated CinCam beam profiler is moved precisely by the translation stage along the focus region. Its operational robustness and reliability ensures continuous use applications especially in industrial applications. A modular attenuation unit allows focus analysis up to 50W laser power. The whole measuring process is controlled by CINOGY's software RayCi.

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SENSOR DATA	SENSOR DATA	
Spectral response:	340nm-1150nm	
Pixel size:	$5.3\mu m^2$	
Number of pixel:	1.3MPixel	
Technology:	CMOS (CCD)	
Data output:	10Bit	
Interface:	USB 2.0 / GigE	
FEATURES		
Objective:	4x (NA 0.1) / 10x (NA 0.25) / 20x (NA 0.4)	
Focus spot size:	Stage length: 100mm (accuracy 10µm / speed 10mm/s) Input power (without attenuator): max 100mW Input power (with attenuator): max 50W (water cooling / 21/min, 1bar, 20-25°C)	
Stage length:		
Input power (without attenuator):		
Input power (with attenuator):		
Replaceable ND filter:		
Replaceable ND filter:	Reflective type: OD1.0 / OD2.0 / OD3.0 (340nm - 1150nm)	
Accuracy:		
Software:		
SPECIFICATIONS		
Mechanical dimensions (W x H x L):	334mm x 220mm x 84mm³ (without attenuator) / 370mm x 220mm x 84mm³ (with attenuator)	
Weight:	cht: ~6kg	
Electrical requirements:	36V	
Water-cooling:	Water-cooled absorber, Tap or DI-water; 21/min, 1bar, 20-25°C, Ø 8mm hose	
Storage temperature:	-10°C+60°C	
Operating temperature:	+0°C+40°C	
Regulations:	CE, RoHS	



UV-NIR LASER BEAM PROFILER



CinCam Application Focus Beam Profiler - CinSpot FBP-1KF-

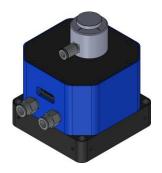
The Focus-Beam-Profiler FBP-1KF is a compact tool to measure the focused laser beam from the UV to NIR range for up to 400W laser input power. It works with a fixed measurement position and is characterized by very compact design. The operational robustness and reliability ensures continuous use applications especially in industrial applications. The whole measuring process is controlled by CINOGY's software RayCi.

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SENSOR DATA		
Spectral response:	340nm-1150nm (1320nm)	340nm-950nm
Pixel size:	5.3μm²	3.45µm²
Number of pixel:	1.3MPixel	3.2MPixel
Technology:	CMOS	CMOS
Data output:	10Bit	12Bit
Interface:	USB 2.0 / USB 3.0	USB 2.0 / USB 3.0
FEATURES		
Collimated beam size:	0.5m-3mm	
Focus spot size:	$\geq\!\!65\mu m @single\ mode\ / \geq\!\!300\mu m @multi\ mode$	≥42μm@single mode / ≥300μm@multi mode
Max NA / Divergence:	0.05 / 100mrad	
Input laser power:	max 400W@single mode / max 700W@multi mo	de
	Measurement time with water-cooling @22°C: no	limitation
	Measurement time without water-cooling: 20s@4	00W
Accuracy:	Waist position 50µm / Spot size 2-4% (measurements)	nent position is calibrated)
Software:	RayCi-Pro	
SPECIFICATIONS		
Mechanical dimensions (W x H x L):	98mm x 98mm x 65mm	
Weight:	~2kg	
Electrical requirements:	Power supply via USB	
Water-cooling:	Water-cooled absorber, Tap or DI-water: 2l/min,	1bar, 20-25°C, Ø 8mm hose
Dust protection:	Flushing with clean air to avoid contamination of	the optics (cleaned, oil-free, dry, particles <10 nm)
Storage temperature:	-10°C+60°C	
Operating temperature:	+0°C+40°C	
Regulations:	CE, RoHS	



LASER BEAM PROFILER



CinCam Application
Focus Beam Profiler
HP-FBP-2KF
- Preliminary -

The Focus-Beam-Profiler HP-FBP is a compact tool to measure the focused laser beam. Its operational robustness and reliability ensures continuous use applications especially in industrial applications. The whole measuring process is controlled by CINOGY's software RayCi.

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SENSOR DATA	HP-FBP-2KF	
Spectral response:	350nm-1150nm (other on request)	
Pixel size:	5.3μm²	
Number of pixel:	1.3MPixel	
Technology:	CMOS	
Data output:	10Bit	
Interface:	USB 2.0 / USB 3.0 (other on request)	
FEATURES		
Collimated beam size:	0.5m-4mm	
Minimum spot size:	$\geq\!\!64\mu m@single\ mode\ /\!\geq\!\!300\mu m@multi\ mode\ (accept\ focal\ lengths\ >\!\!120mm)$	
Input laser power:	max 1000W@ mono mode / max 1200W@multi mode	
	Measurement time with water-cooling @22°C: no limitation	
	Measurement time without water-cooling: 20s@500W	
Accuracy:	Waist position 30µm / Spot size 2-4% (measurement position is calibrated)	
Software:	RayCi-Pro	
SPECIFICATIONS		
Mechanical dimensions (W x H x L):	98mm x 98mm x 111mm	
Weight:	~2,8kg	
Electrical requirements:	Power supply via USB	
Water-cooling:	Water-cooled absorber, Tap or DI-water; 4l/min, 2bar, 20-25°C, Ø 10mm hose	
Dust protection:	Flushing with clean air, Ø 6mm hose (cleaned, oil-free, dry, particles <10 nm)	
Storage temperature*:	-10°C+60°C	
Operating temperature*:	+0°C+40°C	
Regulations:	CE, RoHS	

^{*} Without condensation