## Beam Profiling and Power Meter for AM Industry

The BeamPeek laser beam profiler and power meter allows simultaneous beam profiling, focal spot analysis, and power measurement of additive manufacturing (AM) lasers.

It integrates both beam profiler, power meter, optical beam sampling system and beam dump. The electronics, beam splitters, and optics, as well as the SP932U CMOS camera and power meter are safely confined in separate chamber.

The beam dump is integrated into an easily replaceable tray without the need for active cooling using air or water.

- Focal spot size and position, Laser Beam Profile, and Power
- Multimode and single mode lasers
- Rugged for industrial production environment and metallic powder
- Doesn't require water or air cooling
- Fits AM chambers with 150-800mm focal lengths





## **Specifications**

Model	BeamPeek
Beam Profiling, Power Meter and Beam	n Dump
Wavelengths	532nm, 1030 - 1080 nm
Spot size (min - max)	34.5µm - 2mm
Maximum power	
	Multimode: 1000W
	Single mode: 1000W at 1064nm
	700W at 532nm
Minimum power	10W
Measuring rate	24fps
Maximum spot size at entrance	10mm
Maximum incidence angle	0.5°
Operation time	2 min at 1000W
Camera position from bottom plane (1)	Nominal 76.54mm
Accuracy	±3% at 532nm & 1064nm
	±5% for 1030nm to 1080nm
Response time	<3s
Cooling	Passive
Software	
	BeamGage Professional software
	StarLab, BeamPeek Tools
Calibration Certificates	
Power sensor	NIST traceable
JUNO USB converter	NIST traceable
Camera position from bottom plane (1)	Test Certificate ±100 μm
General	
Communication and power (2)	USB 3.0
Weight	~9.5 kg
Dimensions	190mm x 190mm x 175mm
Compliance	CE, UKCA, China RoHS
Ordering Information	
Part Number	SP90609
Notes	(1) Nominal value, may differ from item to item due to assembly and camera tolerances; actual value is on COC, calibration sticker, ± 100µm (2) Comes with 2m cable, 15m active USB 3.0 cable P/N:7E11214 available on request as accessory



