# 3.9.1 BeamPeek™

### **Beam Profiling and Power Meter for AM Industry**

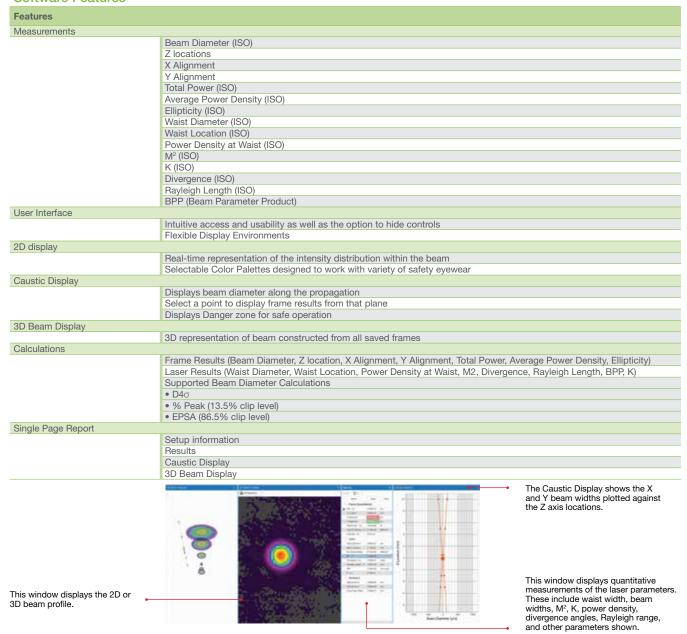
The BeamPeek laser beam profiler and power meter allows simultaneous beam profiling, focal spot analysis, and power measurement of additive manufacturing (AM) lasers. It integrates both beam profiler, power meter, optical beam sampling system and beam dump. The electronics, beam splitters, and optics, 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



#### **Software Features**



## **Specifications**

BeamPeek
n Dump
532nm, 1030 - 1080 nm
34.5μm - 2mm
Multimode: 1000W
Single mode: 1000W at 1064nm
700W at 532nm
10W
24fps
10mm
0.5°
2 min at 1000W
Nominal 76.54mm
±3% at 532nm & 1064nm
±5% for 1030nm to 1080nm
<3s
Passive
BeamPeek™ Software (2)
NIST traceable
NIST traceable
Test Certificate ±100 μm
USB 3.0
-30° C to 65° C
95% maximum (non-condensing)
10° C to 40° C
~9.5 kg
190mm x 190mm x 175mm
CE, UKCA, China RoHS
SP90609

votes: (1) Nominiar value, may differ from item to item due to assembly and camera tolerances; actual value is on COC, calibration s (2) BeamPeek can also be used with BeamGage Professional, StarLab, and BeamPeek Tools (3) Comes with 2m cable, 15m active USB 3.0 cable P/N: 7E11214 available on request as accessory

**Accessory Ordering Information** 

Item	Description	P/N
Beam-Dump Cartridge	Replicable beam dump cartridge for BeamPeek	SP98005

## BeamPeek Drawing

