

3.8.3 High Power - Laser Profiler Kits for CO₂

- A portable solution for medium power lasers
- Up to 1000W CO₂
- Up to 31mm beam widths (16mm 1/e² width)
- Level, set and shoot - Easy operation

The LPK-CO₂ Beam Profiler Kits consist of an A/R coated reflecting wedge, CaF₂ filters, beam telescope to reduce larger beams, Firewire Pyrocam camera, BeamGage software computer and interface card if required. The kit is designed to be conveniently placed in a horizontal beam, or under a down directed beam, to measure raw beam characteristics & stability. The user must safely handle the 95 to 99.5% of the beam that passes through the wedge. A PC style computer is required but not included. See the BeamGage Software section for software features and calculations. See the table below for specifications.

LPK-CO₂-16



Model	Beam Reduction	Beam Sizes	Wavelength	Type of Attenuator	Camera
LPK-CO ₂ -6.4-0.5	1X	1.0 - 6.4mm	10.6µm	0.5% beam splitter + assorted attenuators	Pyrocam III
LPK-CO ₂ -6.4-5.0	1X	1.0 - 6.4mm	10.6µm	5% beam splitter + assorted attenuators	Pyrocam III
LPK-CO ₂ -16-0.5	3X	3.0 - 16mm	10.6µm	0.5% beam splitter + assorted attenuators	Pyrocam III
LPK-CO ₂ -16-5.0	3X	3.0 - 16mm	10.6µm	5% beam splitter + assorted attenuators	Pyrocam III

Ordering Information

Item	Description	P/N
LPK-CO ₂ -6.4-0.5	BGS-PC-PIII software, Pyrocam III with chopper (PY-III-C-B-10.6), LBS-100-IR-0.5 beam splitter/attenuator, base plate, miscellaneous hardware. Suitable for beams 1.0 to 6.4mm.*	SP90075
LPK-CO ₂ -6.4-5.0	BGS-PC-PIII software, Pyrocam III with chopper (PY-III-C-B-10.6), LBS-100-IR-5.0 beam splitter/attenuator, base plate, miscellaneous hardware. Suitable for beams 1.0 to 6.4mm.*	SP90076
LPK-CO ₂ -16-0.5	BGS-PC-PIII software, Pyrocam III with chopper (PY-III-C-B-10.6), LBS-100-IR-0.5 beam splitter/attenuator, 3X telescope, base plate, miscellaneous hardware. Suitable for beams 3.0 to 16mm.*	SP90077
LPK-CO ₂ -16-5.0	BGS-PC-PIII software, Pyrocam III with chopper (PY-III-C-B-10.6), LBS-100-IR-5.0 beam splitter/attenuator, 3X telescope, base plate, miscellaneous hardware. Suitable for beams 3.0 to 16mm.*	SP90078

* Maximum beam size assumes zero diffraction from the wings of the beam. Beams of up to 1.5X the maximum size can be applied with minimal diffraction. Beams of up to 2X the above size can be applied, but noticeable diffraction will occur.