

CCD Beam Profiler (for extreme ultraviolet (EUV), ultraviolet light (UV))

metrolux

CCD Camera Based Laser Beam Profiler for EUV, UV

■ Product Overview This

UV laser beam profiler has a proven track record in industrial applications, and can be used for excimer lasers for processing laser materials in the semiconductor and display industries, and for the 3rd, 4th, and 5th harmonics of Nd: YAG lasers.

The basic system of the product consists of a camera based on a detector for UV and advanced Beamlux II software. Depending on the active area, it is possible to measure beam diameters from 10um to 100mm.

■ Features







- Optics
- Resonator adjustment time reduction
- User-friendly machining monitoring support
- Online analysis, automatic documentation
- Reliable connection, data transfer to database
- Beamlux for beam profile analysis compliant with EN-ISO standards

Extendable to II software-
Single pulse resolution for synchronous operation-
High homogeneity and long-term reliability for manufacturing process
The

same laser beam profiler with UV, UV, VIS and NIR wavelength range, 1um-100mm The intensity distribution of a laser beam with a beam diameter can be measured and analyzed based on EN ISO standards. Various software are suitable for analyzing beam spots and beam positions, and the characteristics of homogeneous laser beams. With optional accessories, pulsed laser synchronous operation and single pulse measurement are possible.

The detector head is optimized by special surface precision of mechanical parts and AR coating of optics to minimize stray light.

■ Product lineup

product name	Sensor type	wavelength	Beam size	appearance	Incident power
UV Monitor	CCD 2/3 "	193 — 1100nm	74um -5mm		<100mW
UV Monitor K2	CCD 2/3 "	10 — 1100nm	65um -5mm		<1W
UV Monitor 10	CCD 2/3 "	157-308nm	<56 x 44mm ²		<10W
UV Monitor 11	CCD 2/3 "	157-308nm	<56 x 44mm ²		<10W
UV Monitor 20	CCD 2/3 "	157-308nm	<25 x 20mm ²		<10W
UV Monitor 21	CCD 2/3 "	157-308nm	<25 x 20mm ²		<10W

Accessories: Rail, 4.5m cable, PCI card, SW / driver CD

Accessories Options: PCMCIA, Express card, Trigger cable, Attenuator for high power, ML8010 motor controller, ML1630 Laser synchronization device

Measurement type: Beam size, divergence angle, Near-field, far-field, beam stability, power, caustic, uniformity

* The actual spectrum range depends on the converter used.

* Click [here](#) for Metrolux website . <http://www.metrolux.de/en>

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