

ULPP-257

Deep UV Picosecond Fiber Laser

Industry Leading Reliability for
Micromachining Applications
DEEP UV



NEW

FEATURES

- ▶ 5 Watts* Output Power at 257 nm
- ▶ 5 μJ * pulses at 1 ps
- ▶ Maintenance Free Operation
- ▶ Robust Compact Package
- ▶ Lightweight Optical Head

* Output power up to 10 W and pulse energy up to 10 μJ can be provided upon request

MICROMACHINING APPLICATIONS

- ▶ Cutting & Drilling
- ▶ Texturing & Marking for PCBs, Flex Circuits,
- ▶ Glass, Diamond & Teflon
- ▶ Selective Material Removal for LEDs & Displays

ULPP-257 establishes a new deep ultraviolet standard for 257 nm reliable power.

The **ULPP-257** laser is designed for micro-cutting, drilling and selective material removal for PCBs, flex circuits, LEDs and flat panel display applications. Exceptional IPG non-linear crystal robustness enables **industry-leading laser reliability and stability of process parameters.**

The fiber-based architecture allows for an **easy-to-integrate, compact, lightweight optical head** tethered to a remote air-cooled module. The small, flexible form factor is **ideal for material processing workstations** utilized in the display, solar, electronics, medical device and other industries.

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Deep UV Picosecond Fiber Laser

Optical Characteristics

Wavelength, nm	257
Mode of Operation	Pulsed
Output Power, W	5*
Power Tunability, %	10-100
Pulse Energy, μ J	5*
Pulse Duration, ps	1
Repetition Rate, kHz	100 to 5500
Beam Quality, M^2	< 1.4, typical 1.2
Output Beam Diameter, mm	2
Beam Circularity, %	> 85

* Output power up to 10 W and pulse energy up to 10 μ J can be provided upon request

General Characteristics

Control Unit Dimensions (W x D x H), mm	448 x 580 x 133
Optical Head Dimensions (W x D x H), mm	124 x 271 x 82
Optical Head Weight, kg	4
Cooling	Water
Supply Voltage, VAC	100-240, Single-phase 50-60 Hz
Power Consumption, W	< 800

Learn More



Contact Us:

DeepUV@IPGPhotonics.com

MAX. AVERAGE OUTPUT POWER: 20 W
MAX. PEAK POWER: 20 kW
PULSE DURATION: 1-10 ns
PULSE REPETITION RATE: 100-5500 kHz
WAVELENGTH RANGE: 250-280 nm

ANGER - VISIBLE AND INVISIBLE
LASER RADIATION AVOID EYE OR
SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT

IEC 60825-1:2014

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