

DX FCPA μ Jewel Family

Ytterbium-doped Femtosecond Fiber Lasers



Product Features

- Custom-fit pulse energy and average powers for fs laser material processing applications
- Naturally induced air-cooling system
- Mechanical reliability complies with relevant MIL-STD-810F and IEC 60601-1 requirements
- Regulatory certifications available

Typical Configurations*

	DX0210	DX1010	DX0320	DX0330	DX0540
Center Wavelength	1045 \pm 5 nm				
Average Power	≥ 2 W	≥ 10 W	≥ 3 W	≥ 3 W	≥ 5 W
Pulse Duration	≤ 450 fs				
Repetition Rate	100 kHz	1000 kHz	100 kHz	100 kHz	100 kHz
Pulse Energy	≥ 10 μJ	≥ 10 μJ	≥ 20 μJ	≥ 30 μJ	≥ 40 μJ

* Other configurations available for specialized and OEM applications, e.g. higher average power, higher pulse energy, other repetition rate

DX FCPA μ Jewel Specifications

Beam Quality	$M^2 \leq 1.3$
Polarization	Horizontal with respect to baseplate
Power Stability	$\leq 1\%$ rms after stabilization over $\pm 1^\circ\text{C}$
Output Aperture Height	55.4 mm
Laser Head Dimensions	550 x 400 x 149 mm ³
Laser Head Weight	≤ 25 kg
Head Heat Dissipation	Max. 80 W
Controller Dimensions	433 x 483 x 222 mm ³
Controller Weight	≤ 30 kg
Power Consumption	Max. 600 W
Operating Voltage	100-120 or 200-240 VAC
Output Trigger	TTL 100 ns pulse
Operating Temperature	20-30 $^\circ\text{C}$
Storage Temperature	0-50 $^\circ\text{C}$
Warm-up Time	≤ 60 minutes
Cable Length	3 m



DX-Series Warning Label



IMRA America, Inc.

1044 Woodridge Ave., Ann Arbor, MI 48105 Phone: 734.930.2560 Fax: 734.930.9957

lasers@imra.com www.imra.com