

# FCPA DX $\mu$ Jewel Series

## Product Features

- Custom-fit pulse energy and average powers
- Burst Mode capable
- Pulse Select: Allows users to select up to 15 pre-set repetition rate values; typical rates range from 100 kHz to 5 MHz
- Pulse On-Demand: single pulse to standard pulse repetition rate
- Optional SHG module
- Remote diagnostic testing and in-field configuration
- Mechanical reliability complies with relevant MIL-STD-810F and IEC 60601-1 requirements

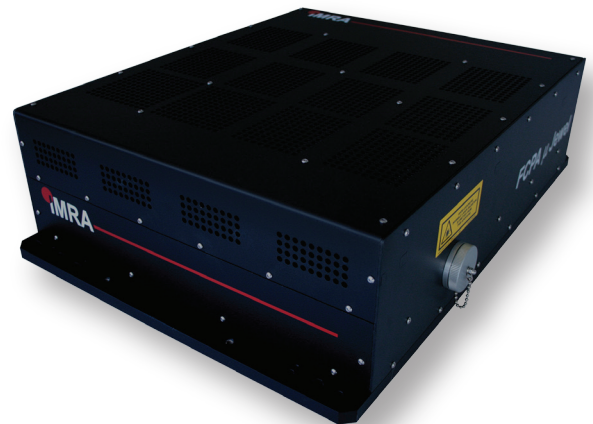
## Typical Configurations\*

	DX0210	DX0320	DX0540
Wavelength	1045 nm		
Average Power (max)	$\geq 2$ W	$\geq 3$ W	$\geq 5$ W
Pulse Energy (max)	$\geq 10$ $\mu$ J	$\geq 20$ $\mu$ J	$\geq 40$ $\mu$ J
Standard Repetition Rate	100 kHz	100 kHz	100 kHz
Pulse Duration	$\leq 450$ fs		

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

## Applications

- Glass Welding
- Wafer Processing
- Thin Film Ablation
- Marking
- Microprocessing
- Ceramic Processing



DX Specifications	
Beam Quality	$M^2 \leq 1.3$
Polarization	Horizontal with respect to baseplate
Power Stability	$\leq 1\%$ RMS after stabilization over $\pm 1\text{ }^\circ\text{C}$
Output Aperture Height	55.4 mm
Laser Head Dimensions	550 x 400 x 149 mm <sup>3</sup>
Laser Head Weight	$\leq 25$ kg
Head Heat Dissipation	Max. 80 W
Controller Dimensions	433 x 483 x 222 mm <sup>3</sup>
Controller Weight	$\leq 30$ kg
Power Consumption	$\leq 600$ W
Operating Voltage	100-120/200-240 VAC
Output Trigger	+3V, 100 ns wide, 150 ns before optical pulse
Operating Temperature	20 - 30 $^\circ\text{C}$
Storage Temperature	0 - 50 $^\circ\text{C}$
Warm-up Time	$\leq 60$ minutes
Cable Length	3 m



DX-Series Warning Label



NOTE: Specifications and features may change without notice

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