

FCPA DE 2050 ULTRA

Product Features

- Pulse On-Demand: single pulse to standard pulse repetition rate
- Pulse Select: Allows users to select up to 15 pre-set repetition rate values
- Burst Mode capable
- Remote diagnostic testing and in-field configuration
- Mechanical reliability complies with relevant MIL-STD-810F and IEC 60601-1 requirements
- Integrated Green and/or UV wavelengths, optional

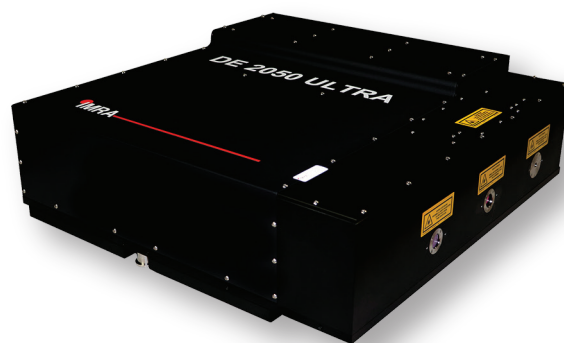
Typical Configurations*

	IR	Green	UV
Wavelength	1045 nm	523 nm	348 nm
Average Power (max)	20 W	8 W	1 W
Pulse Energy (max)	50 μ J	20 μ J	5 μ J
Standard Repetition Rate	200 kHz or 1 MHz		
Pulse Duration	\leq 400 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
- Microprocessing
- Selective Laser Etching
- Ceramic Processing



DE 2050 ULTRA Specifications			
	IR	Green	UV
Beam Quality	$M^2 \leq 1.3$		
Polarization	≥ 20 dB, Linear		
Power Stability	$\leq 1\%$ RMS	$\leq 2\%$ RMS	$\leq 3\%$ RMS
Output Aperture Height	55.4 mm		
Laser Head Dimensions	666 x 620 x 165 mm ³		
Laser Head Weight	≤ 50 kg		
Controller Dimensions	433 x 483 x 222 mm ³ (separate controller for the harmonic options)		
Controller Weight	≤ 30 kg		
Power Consumption	≤ 1200 W		
Operating Voltage	100-120/200-240 VAC		
Output Trigger	+3V, 100 ns wide, 150 ns before optical pulse		
Operating Temperature	20 - 30 °C		
Storage Temperature	0 - 50 °C		
Warm-up Time	≤ 60 minutes		
Cable Length	3 m		



DE 2050 ULTRA Warning Label



NOTE: Specifications and features may change without notice

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