

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

IMRA America, Inc.

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

lasers@imra.com

www.imra.com