



Smart Light MD™

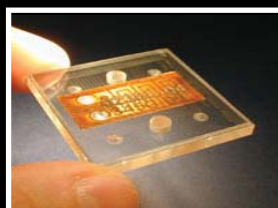
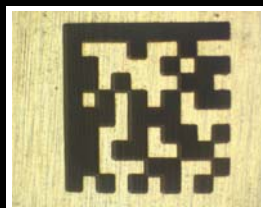
The World's Only Commercial Grade Ultrafast Platform

Raydiance designed and built the world's first and only commercial-grade femtosecond laser. Now, Raydiance brings to the medical micro-devices market *Smart Light MD*. Fully software controlled and packaged in a compact, ruggedized fiber architecture, *Smart Light MD* enables truly athermal ablation of any material, from human tissue to the hardest metals. Today, *Smart Light MD* is powering major breakthroughs in the creation of next-generation medical devices for cardiovascular, drug delivery and surgical applications.



Smart Light Technology

- *True Athermal Ablation*
- *24/7 Reliability*
- *Automation and Systems Integration Capability*
- *All Fiber Architecture*
- *Cost Effective*
- *One Platform, Any Material*





Raydiance Technology

ZERO DOWNTIME

Raydiance's architecture was implicitly designed for reliability. Our ongoing lifetime testing has shown an uptime performance of greater than 99%.

TECHNICAL SUPPORT

The Raydiance Platform is an Internet device, so our service engineers are alerted day or night via smart phone should a customer have a support need.

TURNKEY SOLUTIONS

By using our Smart Partner™ Network, we can provide a complete turnkey solution for your application.

For more information on our products or services please visit us at www.raydiance.com

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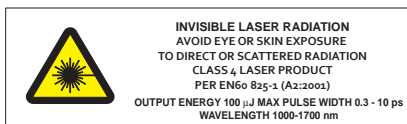
Laser Parameters

	MD 10	MD 50
Wavelength	1552 nm	1552 nm
Energy per Pulse (adjustable)	1 - 10 uJ	5 - 50 uJ
Pulse Width (typical)	800 fs	800 fs
Repetition Rate	1 Hz - 300 kHz	1 Hz - 100 kHz
Average Power	3.0 W	5.0 W
Peak Power	≥ 10 MW	> 50 MW
Beam Diameter	4 mm	4 mm
Beam Profile	TEM ₀₀ , M ² ≤ 1.3	TEM ₀₀ , M ² < 1.5
Polarization	Linear (> 100:1) Horiz.	Linear (> 100:1) Horiz.
Beam Divergence	1 milliradian	1 milliradian

Utility and Environmental

Operating Voltage	90 to 230 VAC	90 to 230 VAC
Line Frequency	50/60 Hz	50/60 Hz
Power Consumption	400 W	500 W
System Weight	36 kg	57 kg
Chiller Weight	15 kg	15 kg
Operational Temperature	18 to 26 C*	18 to 26 C*

* Operating temperature is limited by TEC-based chiller



Raydiance follows a policy of continuous product improvement. Specifications are subject to change without notice.

Raydiance's laser products are certified to comply with Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems manufactured for shipment after August 2, 1976.

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