

The innovative, **FQ2H** PATENTED dual headed pulsed fiber laser system is perfectly suited for advanced applications that require rapid processing over a wide range of materials. The dual head design of this laser offers the user the unique ability to control two fiber lasers with the same controller. This saves on overall footprint as well as cost. The dual head configuration allows for variance in mounting the heads in applications requiring two separate marks or requiring faster throughput than is offered with a single head marking system. This system maintains the beam quality all Telesis fiber lasers are known for as well as a 100,000 hour MTBF diode reliability. It is the only fiber laser system of its kind that is entirely aircooled and powered from a single phase power outlet. The Windows® based control software is intuitive to use, easily run on a laptop, and requires only 2 USB ports and an Ethernet port for external interfacing.



FQ2H Series System Components

## LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE
Wavelength.....	1,060nm(+/-20nm)
Laser Type.....	Q-Switched Ytterbium Fiber Laser
Average Power.....	100W
Peak Power.....	>8kW
Beam Quality.....	M <sup>2</sup> < 2
Fiber Length.....	2.74 meters (9.0ft) Std.
Long Term Power Drift.....	< +/- 5%
Optical Isolator.....	Standard
Positioning.....	Dual Visible Red Laser Diode
Mounting Weight.....	Approx. 15.9kg(35.0 lbs.)
Marker Head Dimensions.....	47.5(L)x 23.9(W)x 18.6cm(H) (18.7" x 9.0" x 7.3")
Controller Dimensions.....	51.1(L)x 43.8(W)x 21.3cm(H) (20.1" x 17.3" x 8.4")
Controller Weight.....	Approx. 27.2kg(60.0lbs.)
Input Power (Selectable).....	95-250VAC, 50/60Hz
Max. Power Consumption.....	<600W
Cooling.....	Air Cooled (no water cooling required)
Operating Temperature Range.....	18° to 35°C (65° to 95°F)
Humidity.....	10% to 85% Non-condensing

## SOFTWARE

Software.....	<b>MERLIN® 2H</b>
Operating System.....	WindowsXP®, or Windows® 7 with Optional Laptop, Desktop or Rackmount PC
Communication Interface.....	2x USB, Ethernet TCP/IP

## OPTIONS

- Multiple Axis Automation for X, Y, Z and rotation
- Fume/Dust Extractor
- CDRH Class 1 enclosures
- Dual or single Vari-Z lasing heads
- Design, build and integration of custom engineered solutions available



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DATA MATRIX™ 2-D Code Marking Capability  
Meets all Department of Defense UID Requirements