



F-SERIES - FQ10DS, FQ20DS, and FQ30DS Fiber Laser Marking Systems

All versions of the FQ family of lasers are now available with the Dual Shutter Sensor Safety Feature as a “DS” version. The Dual Shutter Sensor Safety Feature provides a redundant signal from the laser indicating that the laser shutter is closed. This feature is required in many automotive and medical device applications.

The Telesis FQ30DS is the latest laser in a family of maintenance free Q-switched Ytterbium fiber lasers specifically designed for marking applications with power levels up to 30W. These lasers deliver a high power laser beam directly to the marking head via a flexible metal sheathed fiber optic cable. The fiber based optical design and rugged mechanical design allows these markers to operate in an industrial environment where shock, vibration and dust are a concern. The F-Series fiber marker’s unique design allows the overall package to be very small and modular for ease of integration into a variety of industrial applications. The F-Series Laser Marking Systems offers a best in class reliability, with no water-cooling requirements, and single phase 110/230VAC power requirements.



STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100 mm.....	65mm X 65mm (2.56" X 2.56")
160 mm.....	90mm X 90mm (3.54" X 3.54")
163 mm.....	110mm X 110mm (4.33" X 4.33")
254 mm.....	175mm X 175mm (6.89" X 6.89")
330 mm.....	230mm X 230mm (9.06" X 9.06")
350 mm.....	250mm X 250mm (9.84" X 9.84")
420 mm.....	290mm X 290mm (11.42" X 11.42")

SOFTWARE

Software	MERLIN® II LS
Operating System.....	Windows® 2000, Windows XP, Windows Vista™, or Windows® 7 with Desktop PC (Std), Optional Laptop
Communication Interface.....	Serial, TCP/IP, I/O

LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE, CSA, UL
Wavelength.....	1,060nm
Laser Type.....	Q-Switched Ytterbium Fiber Laser
Average Power FQ10DS/20DS/30DS	10/20/30W
Peak Power FQ10DS.....	>4kW
Peak Power FQ20DS.....	>8kW
Peak Power FQ30DS.....	>8kW
Beam Quality FQ10DS/20DS/30DS.....	M ² < 2
Fiber Length FQ10DS.....	5m (16') Std.
Fiber Length FQ20DS/30DS	3m (9.8') Std.
Long Term Power Drift.....	< +/- 5%
Optical Isolator.....	Standard
Positioning.....	Visible Red Diode Light
Input Power (Selectable).....	95-250VAC, 50/60 Hz
Cooling.....	Air Cooled, Fan/Filter (no water cooling required)
Operating Temperature Range.....	18° to 35°C (65°F to 90°F) Non Condensing
MarkingHeadDimensions.....	51.0(L)x12.7(W)x14.0 cm(H) (20.1" x 5.0" x 5.5")
Dimension with Selected Lens (H).....	100 mm: 14.4cm (5.7") 160 mm: 14.2cm (5.6") 163 mm: 15.8cm (6.2") 254 mm: 17.2cm (6.8") 330 mm: 17.8cm (7.0") 350 mm: 15.9cm (6.3") 420 mm: 17.8cm (7.0")
Mounting Weight.....	6.8kg (15lbs.)
Model 6 Controller Dimensions.....	42.5(W) x 13.7(H) x 50.8cm(D) (16.7" x 5.4" x 20.0")
Laser Marking Head Cable.....	5m (16.4'), detachable
Laser Extension Cable.....	3m (10.0'), detachable



QR Code Web Page Product Link

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