



Nutfield Technology

Photonics in Motion®

- ◆ Complete Scanning and Laser Control Solution for your Fiber Laser
- ◆ Compact, Fast 7, 10 or 15mm Scan Heads
- ◆ Fiber Mounting Kit
- ◆ Optional Electro-Mechanical Shutter
- ◆ USB Based Control Rack with Fiber Laser Protection Circuits
- ◆ All Interconnect Cables
- ◆ Laser and Scan Head Power Supplies

NUTFIELD TECHNOLOGY, INC.
sales.info@nutfieldtech.com
www.nutfieldtech.com
603-893-6200

Fiber Laser Scan Head Kit

Laser & Scanning Control

Now you can have your Fiber laser up and running in minutes with the latest in laser scanning and control technology.

NTI has assembled all the necessary components required to assemble and safely control your fiber laser.

The kit allows you to perform a countless number of tasks with ease. Included in the kit is your choice of high performance scan head with several choices for lenses, a fiber laser mounting bracket, safety shutter, USB-based laser scanner control board, laser safety circuits, connector break outs, power supplies, cables, manuals and application notes. This one-stop solution is backed up with our knowledgeable technical support team who will stand behind your integration throughout the setup process.

Contact NTI to discuss how we can configure a Fiber Laser Kit for your application.

Suitable For Laser Based:

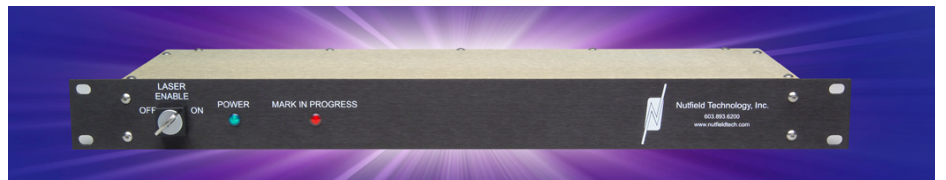
- ◆ Coding Cutting
- ◆ Drilling Heating
- ◆ Marking Welding



XLR8 or Xtreme 7, 10 & 15mm Scan Head
Fiber Mounting Bracket
Optional Safety Shutter
Rugged, IP-65 Enclosure



One Stop Solution
Scan Head, Mounts,
Control and Software



19 Inch Laser/Scanner Control Rack
Laser, Scan Head, I/O and USB Connectors in Rear
Includes Fiber Laser Protection Circuits



XLR8 and Xtreme Scan Head Specifications

LASER>>>	Fiber Laser		
Wavelength (nm)	1,060	1,060	1,060
Objective Lens (f in mm)	f= 100	160/163	f= 254
Maximum Field Size (mm)	70x70	120x120	180x180
Working Distance (mm) ¹	126	204/226	356
Resolution (μm)	< 4	< 8	< 12
Temperature Drift (μm/C°) ² (max mm/C) ²	9	15	23
Protection window	Yes	Yes	Yes

Scan Head	Mirror Aperture	Weight	Dimensions	Small Step	Mark Speed	Positioning Speed	Char/Sec Possible	Char/Sec Good	Char/Sec Excellent
Xtreme	10mm	1.6kg	117x115x169mm	250μs	6000	10000	850	700	550
Xtreme	15mm	1.6kg	117x115x169mm	390μs	4500	8000	650	550	450
XLR8	7mm	1.2kg	97x113x114mm	270μs	6000	11000	1000	800	650
XLR8	10mm	1.2kg	97x113x114mm	310μs	5000	8000	700	600	500
XLR8	15mm	1.4kg	117x115x169mm	600μs	3500	6000	450	350	300

Performance Criteria: Step Size = 1% of Field, Settling to 1/1000, Field Size 120x120mm, 1mm Single Stoke Text

Mirror Specifications

LASER >>>	Fiber Laser
Wavelength (nm)	1,060
Mirror Coatings	Dielectric
Reflectance (min.) @Wavelength (nm)	99.5%@1,060
Pointer @ 633nm	70%
Flatness @ 633nm	λ/4
Surface Quality (Scratch/Dig)	40/20

For Outline Drawings and Mounting Details Contact Nutfield Technology or Go On-Line.

NUTFIELD TECHNOLOGY, INC.
49 Range Road
Windham, NH USA 03087

Phone: 603.893.6200
Fax: 603.893.6214

WWW.NUTFIELDTECH.COM

Specifications subject to change without notice. 2007