

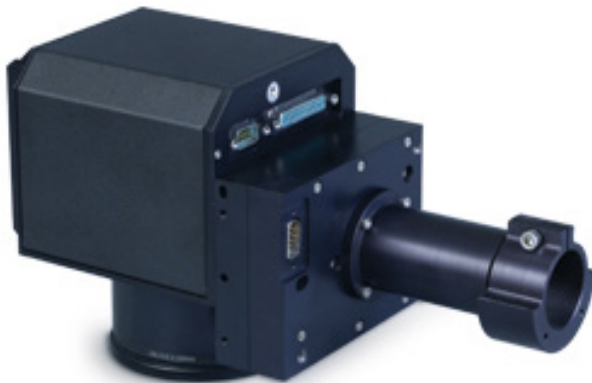
# FIBER LASER SCAN KIT

## LASER & SCANNING CONTROL



USB-BASED CONTROL RACK  
 FIBER LASER PROTECTION CIRCUITS  
 APERTURE RECOMMENDATIONS: **7MM, 10MM OR 15 MM SCAN HEADS**

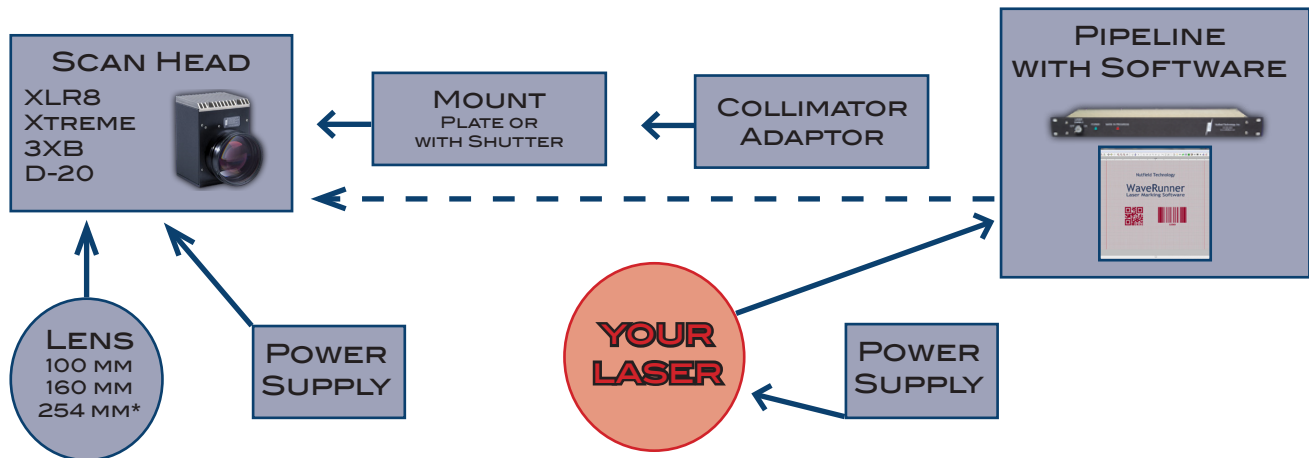
RUGGED IP-65 ENCLOSURE  
 FIBER MOUNTING BRACKET  
 OPTIONAL SAFETY SHUTTER



Now get your fiber laser up and running in minutes with the latest in laser scanning and control technology. Nutfield Technology has assembled all the necessary components required to build and safely control your fiber laser.

The kit allows you to perform a countless number of tasks with ease. Choose the high performance scan head available with several options for lenses, then add the fiber laser mounting bracket, optional safety shutter, USB-based laser scanner control board, laser safety circuits, connector break outs, power supplies and cables. This one-stop solution is backed up with Nutfield Tech's knowledgeable technical support team who will stand behind your integration throughout the setup process.

Since 1997, Nutfield Technology has been designing and manufacturing the most advanced galvanometer-based optical scanners, scan heads, laser control electronics, and software products available.



\*D-20 ONLY AVAILABLE WITH F-254 LENS.

### APPLICATIONS:

- // MARKING
- // CODING
- // WELDING WITH METAL OR PLASTIC
- // DRILLING WITH METAL OR PLASTIC

- // MICROMACHINING
- // INDUSTRIAL PROCESSING
- // SURFACE TREATMENT
- // CUTTING

SPECIFICATIONS

LASER	FIBER LASER		
Wavelength (µm)	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) <sup>1</sup>	126	204/226	356
Resolution (µm)	< 4	< 8	< 12
Protection Window	Yes	Yes	Yes
Spot Size (µm) <i>estimated</i>	31	50	80

SCAN HEAD	MIRROR APERTURE	WEIGHT WITHOUT LENS	DIMENSIONS
XLR8-7	7 mm	1.2 kg	97x113x114 mm
XLR8-10	10 mm	1.2 kg	97x113x114 mm
XLR8-15	15 mm	1.2 kg	117x115x169 mm
XTREME-10	10 mm	1.6 kg	117x115x169 mm
XTREME-15	15 mm	1.6 kg	117x115x169 mm
3XB	10 - 45 mm	14.5 kg	216x247x485 mm
D-20	20 mm	5.8 kg	205x163x226 mm

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

FOR OUTLINE DRAWINGS AND MOUNTING DETAILS, CONTACT NUTFIELD TECH.