FIBERLIGHT™ MULTICOLOR BEAM GENERATOR MODEL FB-3

HIGH TRANSMISSION EFFICIENCY WITH EASY SET UP

The fiberlight™ Multicolor Beam Generator is a unique, compact device that generates the laser beam pairs required for one-, two- or three-component Phase/Doppler Particle Analyzer (PDPA) or Laser Doppler Velocimeter (LDV) systems from TSI. The unit provides high transmission efficiency while being easy to set up.



When a multicolor argon-ion laser beam is directed through the fiberlight separator, the system output contains three pairs of beams–green (514.5 nm), blue (488 nm) and violet (476 nm). Each pair includes a frequency shifted beam and an unshifted beam. Variable frequency downmixing in the signal processor allows frequency shift selection, a feature unique to TSI systems that enhances overall accuracy, especially for low velocity flow and particle size measurements.

Features and Benefits

+ No cumbersome alignment needed
+ Built-in frequency shift
+ Compact ergonomic design
+ High power capacity
+ High throughput for maximum coupling efficiency
+ Built-in alignment iris

Applications

+ LDV
+ PDPA

UNDERSTANDING, ACCELERATED

SPECIFICATIONS

FIBERLIGHT
MULTICOLOR BEAM GENERATOR

New fiber optic couplers simplify fiber coupling yet ensure maximum, repeatable light transmission. A compact size and few operational adjustments make fiberlight system set-up and operation easy and straightforward. Since the fiberlight system always provides three beam pairs, the ability to naturally expand to a three-component PDPA/LDV system is built-in.

Included Items

+ Accessory kit
+ fiberlight Multicolor Beam Generator
+ Adjustable input beam shield
+ fiberlight six couplers

Specifications*

fiberlight Multicolor Beam Generator

Colors Separated
476.5 nm, 488 nm, 514.5 nm (violet, blue, green)

Color separation efficiency
100%

User adjustments
Bragg angle, beam steering mirror

Dimensions (L × H × D)
40 × 14.6 × 17.2 cm (15.75 × 5.75 × 6.75 in.)

Weight
7.4 kg (16.3 lb)

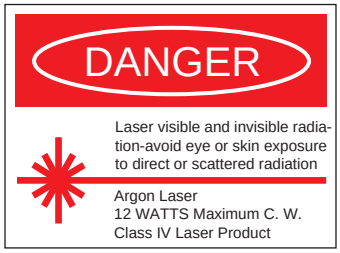
Input beam height
10.8 cm (4.25 in.) or 13.3 cm (5.23 in.) with LA90 spacer

*Specifications are subject to change without notice.

TSI and the TSI logo are registered trademarks of TSI Incorporated.
fiberlight and ColorBurst are trademarks of TSI Incorporated.

To Order
fiberlight Multicolor Beam Generator

Specify	Description
FBL-1	fiberlight Multicolor Beam Generator with two fiberoptic couplers
FBL-2	fiberlight Multicolor Beam Generator with four fiberoptic couplers
FBL-3	fiberlight Multicolor Beam Generator with six fiberoptic couplers



UNDERSTANDING, ACCELERATED

TSI Incorporated - Visit our website **www.tsi.com** for more information.

USA	**Tel:** +1 800 874 2811	**India**	**Tel:** +91 80 67877200
UK	**Tel:** +44 149 4 459200	**China**	**Tel:** +86 10 8219 7688
France	**Tel:** +33 4 91 11 87 64	**Singapore**	**Tel:** +65 6595 6388
Germany	**Tel:** +49 241 523030		

P/N 1990035 Rev C ©2014 TSI Incorporated Printed in U.S.A.