PHOTON KINETICS

1050F Fiber Aligner

Automated low loss, low reflectance coupling for individual single-core and multicore fiber testing

Features

Versatile alignment platform

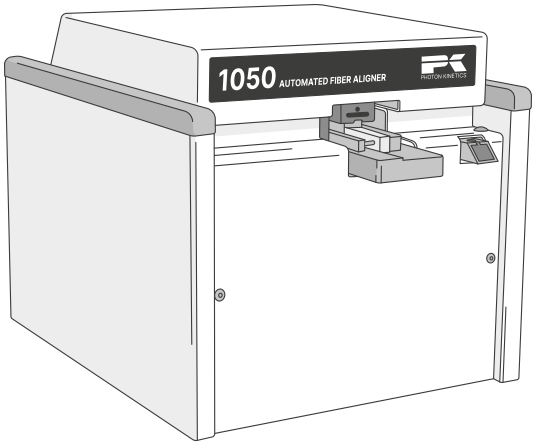
- Designed for automated temporary coupling of a buffer fiber to a single optical fiber.
- With an 8000 OTDR, able to couple a buffer fiber to each core of a single or multicore optical fiber.
- Couples to fibers having a range of fiber cladding and coating diameters.
- Cornerstone of the Full-Length Station for multicore fibers (FLS-M), and for incoming QC of multicore fiber spools with a FLS prior to cabling operations.

Enables high quality measurements

- Profile alignment combined with OTDR power peaking ensures low loss couplings required and high quality measurements.
- Automated index matching oil application minimizes coupling loss and reflectance, resulting in high-quality fibe measurements.

Standard PK prep tools and holders.

- High quality fiber endfaces for low loss couplings.
- Holders for a range of fiber coating diameters.



Single Fiber Alignment

For more information contact
sales@pkinetics.com

Specifications

Performance	
Alignment Method	Fully automated, video profile alignment with OTDR power optimization
Available Buffer Fibers Single-mode Multimode	 IEC Type B-652, 1000 meters IEC Type A1-OM2 (50 µm) or A1-OM1 (62.5 µm), 350 meters
Fibers Aligned Single-mode Multimode Cladding Diameter (µm) [1] Coating Diameter (µm) [1]	 IEC Type B single-core and multicore, hollow-core IEC Type A1-OM1 to -OM5 125 nominal 200 to 250 nominal
Coupling Loss (dB) [2]	< 1.0 , < 0.5 typical
Coupling Reflectance (dB) [2]	< -40, < -50 typical
Coupling Speed (s) [3] Single-core Multicore [4]	 < 10 < 12 per core
Physical and Environmental	
Dimensions	8.8 in W x 8.8 in. H x 12.8 in. D 22.4 cm W x 22.4 cm H x 32.5 cm D
Weight	20 lbs (9.1 kg)
Power	100-240 V ac, 2.5 A max., 50/60 Hz
Operating Temperature	15 to 40 °C
Storage Temperature	0 to 40 °C
Humidity	< 80% RH, non-condensing

Notes:
1. *Standard. Other cladding and coating diameters may be available. Contact factory.*
2. *IEC Type B-652 fiber at 1310 nm.*
3. *Excluding preview, but including index matching liquid application.*
4. *4-core fiber, excluding marker location.*

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Specifications subject to change without notice

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