PHOTON KINETICS

1050C Cable Aligner

Automated low loss, low reflectance coupling for loose tube and ribbon fiber cable testing

Features

Versatile, high performance, fiber aligner

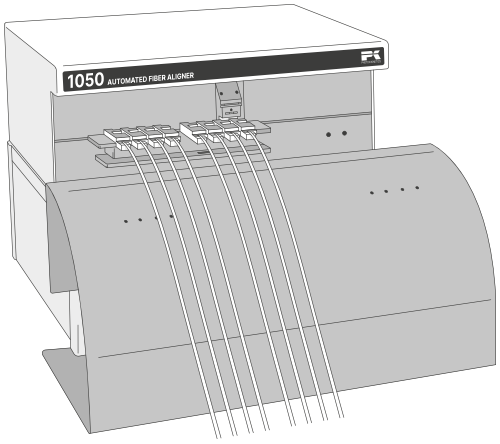
- Automated coupling of an OTDR buffer fiber to 8 loose tubes or ribbons, each having up to 16 fibers.
- Compatible with fibers having a range of cladding and coating diameters, various ribbon designs.
- Key component of the Finished Cable Station, along with an 8000 OTDR and OASYS OTDR Automation Software, for high-volume, automated testing of high fiber-count cables.

Enables high quality measurements

- Profile alignment with high-speed OTDR power peaking ensures low coupling loss and enables fast, high quality data acquisition.
- Automated index matching oil application minimizes both coupling loss and reflectance, resulting in high-quality cable measurements.

Mass fiber preparation tools, holders, cassettes

- Provide fast, easy fiber preparation, plus cassette loading of up to 8 fiber holders, minimizing station downtime and maximizing test station output.



Multiple 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 IEC Type A1-OM1 to -OM5 125 nominal 200 to 250 nominal
Subunits Type Max. No. per Cassette Max. Fibers per Subunit [2]	 Ribbon or loose tube fibers 8 16
Coupling Loss (dB) [3]	< 1.0, < 0.5 typical
Coupling Reflectance (dB) [3]	< -40, < -50 typical
Coupling Speed per Fiber (s) [4]	< 10
Potential Test Station Output [5] Single operator with one 1050C Single operator with two 1050Cs	 < 30 sec. per fiber (~1000 fibers per 8 hour shift) < 15 sec. per fiber (~2000 fibers per 8 hour shift)
Physical and Environmental	
Dimensions	15.9 in W x 12.9 in. H x 15.9 in. D 40.4 cm W x 32.7 cm H x 40.4 cm D
Weight	30 lbs (13.6 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. *Contact factory for higher counts. Dependent on preparation tool availability.*
3. *IEC Type B-652 fiber at 1310 nm.*
4. *Excluding preview, but including index matching liquid application.*
5. *Bi-directional, three wavelength measurement of eight, single-core, 12-fiber ribbons with an 8000 OTDR and OASYS OTDR automatiotn software*

Photon Kinetics, Inc.
9305 SW Gemini Drive Beaverton, OR 97008 USA
Tel +1 503 644 1960

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Specifications subject to change without notice

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