



FGC-G

Fiber Glass Geometry Measurement System



The FGC-G comes in 2 different models. The FGC-GT is optimised for measuring fibers of 125 μ m in diameter. Typical applications are development and manufacturing of measuring single and multimode telecom fibers, but it can also measure speciality fiber as well. The FGC-GS can measure fibers with diameters up to 1mm, and is optimized for measuring speciality fibers such as octagonal fibers, and dual-cladding fibers.

Features & Benefits

- Can measure special fiber e.g. Dual-clad, octagonal etc.
- Darkfield illumination gives clear view of the fiber endface
- Standards compliant have confidence in its accuracy
- Compact, robust and reliable means it is ready for production
- Consistent, repeatable fiber geometry measurements in seconds
- Traceable calibration
- Fiber handling including Arden and Fujikura/FITEL/Sumitomo holders
- Internal LED for consistent and fully filled core launch conditions

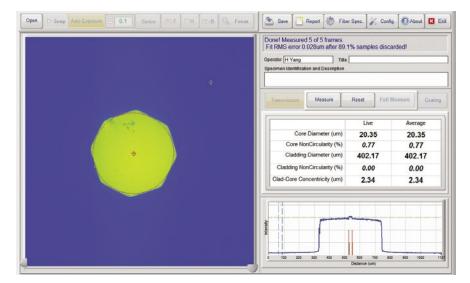
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Fiber Optics



FGC-G Fiber Glass Geometry Measurement System



FGC-G software user interface main screen

Technical Specification*

Physical	Single Mode	Multimode
Core Diameter	< 0.05 µm	< 0.08 µm
Cladding Diameter	< 0.05 µm	< 0.05 µm
Core Non-Circularity	< 1.0%	< 0.5%
Cladding Non-Circularity	< 0.1%	< 0.1%
Core-to-Cladding Concentricity	< 0.06 µm	< 0.05 µm
Measurement time		< 1 minute (including fiber preparation)
Weight		11kg (with carry case 33kg)
Size		0.5 x 0.5 x 0.2 m

* Repeatability is measured on the FGC-GT using the same sample fiber without removing it from the unit.

Computer Requirements

All FGC systems are supplied with a desktop computer running up-to-date Windows operating system.

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FGC-G Fiber Glass Geometry Measurement System

Ordering Information

Part number	Description	
FGC-GT	Fiber Glass Geometry System for measurement of optical fibers with diameters up to 150µm. Including optical unit, fiber handling bench, cables, software package; desktop computer; pair of Arden holders suitable for 250µm diameter coated fiber.	
FGC-GS	Fiber Glass Geometry System for measurement of optical fibers with diameters up to 1000µm. Including optical unit, fiber handling bench, cables, software package; desktop computer; pair of Arden holders suitable for 400µm diameter coated fiber.	
FG-H-250	Arden FGC fiber holder for telecoms fibers	
FG-H-400	Arden FGC fiber holder for 400µm fibers	
FG-H-600	Arden FGC fiber holder for 600µm fibers	
FG-H-800	Arden FGC fiber holder for 800µm fibers	
FG-H-1000	Arden FGC fiber holder for 1000µm fibers	

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