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**Manufacturer:**

Arden Photonics

**Product Name:**

Arden FGC Fiber Holder - 200um

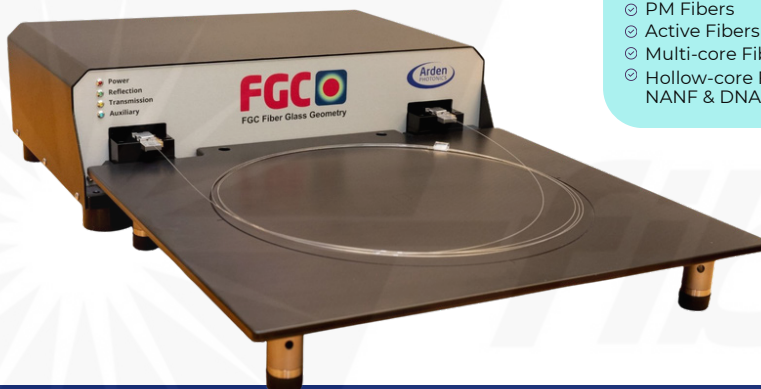
**Manufacturer Part Number:**

FG-H-200

▶ Click here for more details on the Arden FGC Fiber Holder - 200um



OPTICAL FIBER MEASUREMENT SPECIALISTS



**Ideal for Specialty Fibers**

- ☉ PM Fibers
- ☉ Active Fibers
- ☉ Multi-core Fibers
- ☉ Hollow-core Fibers - NANF & DNANF

## FGC-GS

### Fiber Glass Geometry Measurement System

To meet the evolving demands of the photonics industry, Arden has redesigned the flagship FGC-GS Fiber Geometry Measurement System, making it around 25% smaller than previous models, offering higher accuracy and enhanced usability in a significantly smaller footprint.

Engineered for specialty fiber manufacturers and laboratories, the FGC-GS measures most fibers up to 800  $\mu\text{m}$  including Single Mode Fiber, Polarisation-Maintaining Fiber (PANDA), Active Fiber, Multi-core Fiber and Hollow Core Fiber (both NANF and DNANF). Tools to further enhance our industry leading measurement speed include one-click dual-wavelength illumination. Absolute accuracy is guaranteed through Arden's golden-fiber calibration artefact, fully traceable to the National Physical Laboratory (NPL) in the United Kingdom.

The system's innovative software architecture supports fiber characterisation via standardised plugins - ideal for characterisation consistency in a production environment - as well as comprehensive manual tools that allow new and emerging designs to be characterised.

This "smaller but mightier" FGC combines excellent repeatability with the flexibility required for modern fiber development and production.



Plug-in architecture to rapidly standardise testing of tomorrow's fibers



Enhanced manual analysis tools for quick assessment of new fiber designs



User calibration with NPL-traceable artefact



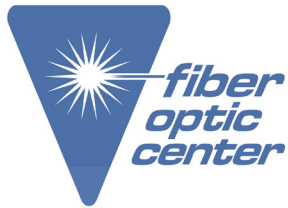
Measure fibers up to 800  $\mu\text{m}$

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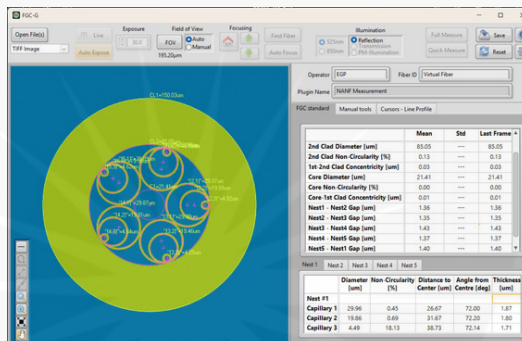
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## Key Features and Technologies



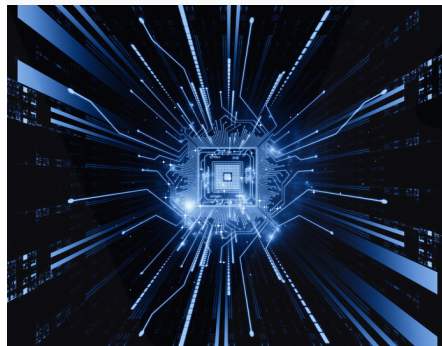
### Software Plug-in Architecture

The FGC's innovative software plug-in architecture enables dedicated measurement for specific fiber types, optimising quality control and production routine. Currently, available plug-ins include: PM fibers, Single mode/Multi mode fibers, Active fibers, Multi-core fibers, and NANF fibers. We can customise plug-ins to rapidly standardise testing of tomorrow's fibers.



### User calibration with NPL-traceable artefact

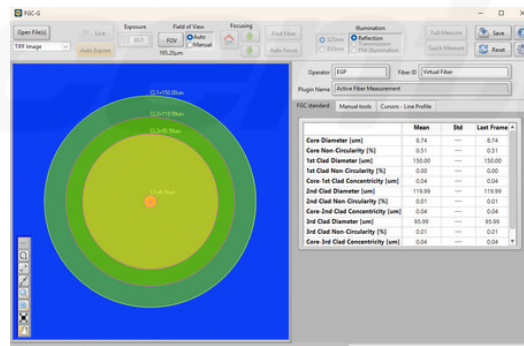
To maintain absolute calibration, users can perform in-house calibration using the FGC-FCD125 golden-fiber artefact, which is traceable to the National Physical Laboratory (NPL) in the United Kingdom, significantly reducing downtime and the need for on-site servicing.



### Enhanced Optical System & Algorithm

The FGC's software and hardware have been redesigned for better measurement performance in a smaller footprint.

The "smaller but mightier" FGC features industry leading speed of measurement and one-click, dual-wavelength illumination.



### Improved Manual Analysis Tool & Reporting

Improved manual analysis tools enable quick assessment of new fiber designs without setting up automated routines. All measurement data is easily stored for production feedback and quality assurance.

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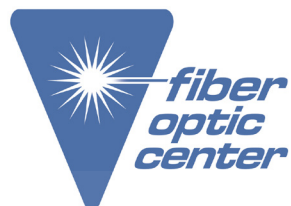
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**FGC-SPI05:** Software plug-in for Nested Antiresonant Nodeless Fiber (NANF) (measuring the inner and outer claddings' diameter and non-circularity, tube's diameter and non-circularity, distance between lobes, and central core diameters)

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## Technical Specification

| Optical                                      |                                    | FGC-GS                                                                     | FGC-GS-D                                  |
|----------------------------------------------|------------------------------------|----------------------------------------------------------------------------|-------------------------------------------|
| Field of View                                |                                    | 900 μm                                                                     |                                           |
| Fiber Illumination - Reflection              | Darkfield illumination, 525 nm LED |                                                                            | Darkfield illumination, 525 & 850 nm Dual |
| Fiber Illumination - Transmission            | High NA LED source, 525 nm         |                                                                            | High NA LED source, 525 nm & 850 nm Dual  |
|                                              |                                    |                                                                            |                                           |
| Repeatability*                               | Singlemode                         | Multimode                                                                  | 20/400**                                  |
| Core Diameter                                | < 0.05 μm                          | < 0.08 μm                                                                  | < 0.1 μm                                  |
| Cladding Diameter                            | < 0.05 μm                          | < 0.05 μm                                                                  | < 0.15 μm                                 |
| Core Non-Circularity                         | < 1.0%                             | < 0.5%                                                                     | < 0.5%                                    |
| Cladding Non-Circularity                     | < 0.1%                             | < 0.1%                                                                     | < 0.1%                                    |
| Core-To-Cladding Concentricity               | < 0.06 μm                          | < 0.05 μm                                                                  | < 0.15 μm                                 |
|                                              |                                    |                                                                            |                                           |
| Measurement Capability                       |                                    |                                                                            |                                           |
| Measurement Time                             |                                    | < 10 seconds (excluding fiber prep)                                        |                                           |
| Fiber Diameter                               |                                    | up to 800 μm                                                               |                                           |
| Special Fibers                               |                                    | Dual clad, Non-circular, Octagonal, PM, Capillary, Multicore, etc.         |                                           |
|                                              |                                    |                                                                            |                                           |
| Physical                                     |                                    |                                                                            |                                           |
| Weight                                       |                                    | 11kg (with carry case 33kg)                                                |                                           |
| Size of FGC unit                             |                                    | 0.3 x 0.45 x 0.15 m                                                        |                                           |
| Total Footprint (incl. fiber handling bench) |                                    | 0.7 x 0.45 x 0.15 m                                                        |                                           |
| Operating Temp                               |                                    | 10 – 30°C                                                                  |                                           |
| Computer Requirements                        |                                    | All FGC systems are supplied with a computer running up-to-date Windows OS |                                           |
| Data Interface                               |                                    | 1 x USB 3.0 (USB B to USB A: 1m cable supplied)                            |                                           |

\* Repeatability is measured on the FGC-GS using a single 125  $\mu$ m fiber without removing it from the unit at 22°C, the repeatability specifications are only applicable to OM1, OM2 and singlemode fibers.

\*\* Repeatability is measured on the FGC-GS using a single 20/400  $\mu$ m fiber without removing it from the unit at 22°C.

\*\*\* May be fitted with dual wavelengths or other customised wavelengths

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### Ordering Information

| Part number                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">FGC-GS</a>      | FGC-GS Fiber Glass Geometry System for measurement of optical fibers with diameters up to 800µm. Including single wavelength optical unit and the following accessories: FGC-FHB - Fiber handling bench, FG-H-400 - Pair of Arden holders with 400 µm V-groove, FG-FTK-400 - Fiber samples, FGC-CK - cable kit, FGC-SFT - software package, APL-PC - desktop computer, FGC-CC - shipping case, FGC-ILL-525 - 525 nm illumination system                                           |
| <a href="#">FGC-GS-D</a>    | FGC-GS-D Fiber Glass Geometry System for measurement of optical fibers with diameters up to 800µm. Including dual wavelength optical unit and the following accessories: FGC-FHB - Fiber handling bench, FG-H-400 - Pair of Arden holders with 400 µm V-groove, FG-FTK-400 - Fiber samples, FGC-CK - cable kit, FGC-SFT - software package, APL-PC - desktop computer, FGC-CC - shipping case, FGC-ILL-525 - 525 nm illumination system, FGC-ILL-850 - 850 nm illumination system |
| Holders                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">FGC-FCD125</a>  | Fiber cladding diameter measurement artefact placed in a retractable holder, and supplied with carry case. Allows the use of a single measured and maintained fiber cleave for calibration and verification of FGC performance. Fiber diameter and circularity is measured by NPL and supplied with a measurement certificate                                                                                                                                                     |
| <a href="#">FG-FTK-400</a>  | FGC fiber samples, 400 µm diameter, for checking FGC alignment and calibration                                                                                                                                                                                                                                                                                                                                                                                                    |
| <a href="#">FG-H-080</a>    | Pair of Arden FGC fiber holders with 80 µm V-groove, suitable for 80 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">FG-H-125</a>    | Pair of Arden FGC fiber holders with 125 µm V-groove, suitable for 125 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-200</a>    | Pair of Arden FGC fiber holders with 200 µm V-groove, suitable for 200 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-250</a>    | Pair of Arden FGC fiber holders with 250 µm V-groove, suitable for 250 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-400</a>    | Pair of Arden FGC fiber holders with 400 µm V-groove, suitable for 400 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-500</a>    | Pair of Arden FGC fiber holders with 500 µm V-groove, suitable for 500 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-600</a>    | Pair of Arden FGC fiber holders with 600 µm V-groove, suitable for 600 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">FG-H-800</a>    | Pair of Arden FGC fiber holders with 800 µm V-groove, suitable for 800 µm diameter coated fiber                                                                                                                                                                                                                                                                                                                                                                                   |
| Software Plug-ins           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">FGC-SPI01</a>   | FGC Software Plugin for measurement of geometry of Panda-style PM Fibers                                                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">FGC-SPI02</a>   | FGC Software Plugin for measurement of geometry of Single Mode Fibers and Multimode Fibers                                                                                                                                                                                                                                                                                                                                                                                        |
| <a href="#">FGC-SPI03</a>   | FGC Software Plugin for measurement of geometry of Multi Core Fibers                                                                                                                                                                                                                                                                                                                                                                                                              |
| <a href="#">FGC-SPI04</a>   | FGC Software Plugin for measurement of geometry of Active Fibers                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <a href="#">FGC-SPI05</a>   | FGC Software Plugin for measurement of geometry of Nested Antiresonant Nodeless Fiber (NANF)                                                                                                                                                                                                                                                                                                                                                                                      |
| Other Accessories           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">FGC-GUEW3</a>   | FGC-Glass geometry system, extended warranty covering parts and labour for 3 years from purchase, return to base.                                                                                                                                                                                                                                                                                                                                                                 |
| <a href="#">FGC-GUEW5</a>   | FGC-Glass geometry system, extended warranty covering parts and labour for 5 years from purchase, return to base.                                                                                                                                                                                                                                                                                                                                                                 |
| <a href="#">FGC-PMI-850</a> | PM illuminator, 850 nm, for measuring dimensions of 125 and 80 µm diameter PANDA fibers.                                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">FGC-PMI-525</a> | PM illuminator, 525 nm, for measuring dimensions of 125 and 80 µm diameter PANDA fibers.                                                                                                                                                                                                                                                                                                                                                                                          |

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