



FGC-GA

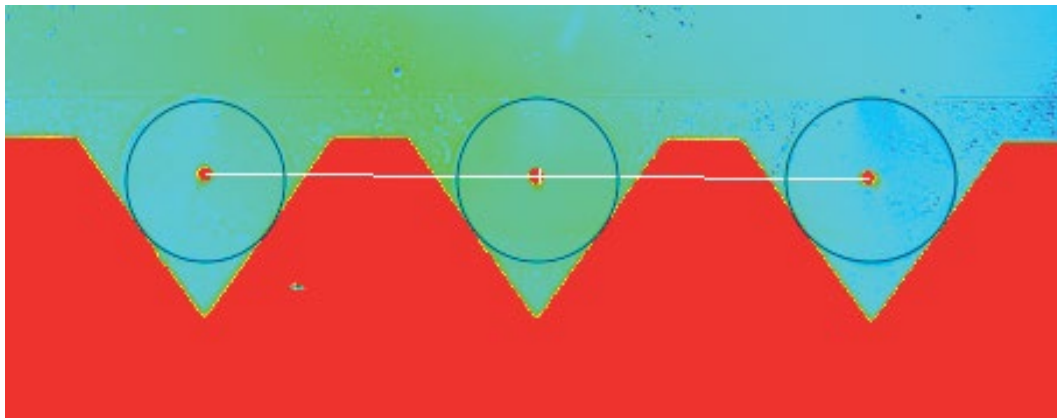
Array Geometry Measurement System



The FGC-GA is the ultimate solution for measurement and process control for V-groove array production. With one unit, users can measure V-groove block geometry, core-to-core pitch and core X & Y offset of multifiber arrays up to 15mm in width. With a 1200 μ m field of view as well as an automated lateral stage for scanning along the entire width of the array, the FGC-GA is the fastest and most flexible way to produce top quality V-groove arrays.

Features & Benefits

- Measurement of core to core pitch, X-offset, Y-offset and V-groove block geometry.
- Lateral adjustment stage and image stitching for measurement over a 15mm array width.
- Flexible software can adjust for different fiber types (SM, PM, MM).
- 1200 μ m field of view allows simultaneous measurement of up to 4 cores, decreasing overall measurement time.
- Arden Photonics custom array holders available depending on customer requirements.



FGC-GA software display



FGC-GA

Array Geometry Measurement System

Technical Specification

Optical	
Max Field of View	1200µm
Fiber Illumination – Reflection	Multichannel 525nm
Fiber Illumination – Transmission	Darkfield illumination, 525nm LED
Repeatability	
Core X/Y-offsets*	< 0.1 µm
Core-core Distance*	< 0.1 µm
Measurement Capability	
Measurement Time	< 1 minute (excluding fiber preparation) for a 3-fiber array
Array Width	Up to 15mm
Fiber Types	Singlemode, Multimode, PM
Physical	
Weight	13kg (with carry case 44kg)
Size	0.5m x 0.5m x 0.2m
Operating Temperature	0 – 50° C
Humidity	5% – 95%, relative, non-condensing
Data Interface	3 X USB 3.1 (USB B to USB A: 0.5m cable supplied)
Computer Requirements	All FGC systems are supplied with a desktop computer running up-to-date Windows operating system

* Repeatability is measured on the FGC-GA using a single 500µm 3 single mode fiber array without removing it from the unit.

For North American sales enquiries call **(727) 478-2651** or email us on sales@ardenphotonics.com

For Rest of World sales enquiries call **+44 (0)121 733 7721** or email us on sales@ardenphotonics.com

Iss 01 Jan 19

Manufactured by
Arden Photonics Ltd

Arden Photonics Ltd,
Royston House, 267 Cranmore Boulevard,
Shirley, Solihull, B90 4QT, UK
+44 (0)121 733 7721

Arden Photonics, LLC,
4500 140th Avenue North, Suite 101,
Clearwater, FL 33762, USA
+1 (727)478-2651

www.ardenphotonics.com
enquiries@ardenphotonics.com