

- Perfect rotational alignment of fibers with intricate structures (e.g. hollow core fibers, multi core fibers, PM fibers) before splicing.
- Ensure optimal optical fiber and fiber laser system performance.
- Work with various common fiber holders.
- Customisable for various applications, fiber types and fiber sizes.



With a
Built-in
camera and
screen

The Fiber Rotational Alignment System

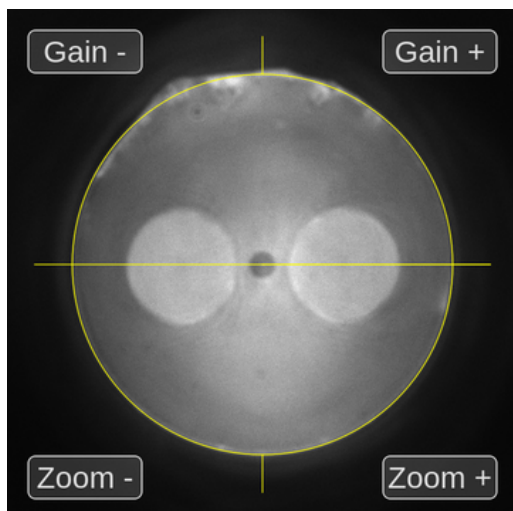
Low loss splicing is a critical process in ensuring the performance of an optical fiber network. For some fibers with intricate structures such as hollow core fiber and multi core fiber, any misalignment of the cores before splicing can result in serious data and power loss and degraded system performance.

Arden Fiber Rotational Aligner is designed for fiber and system manufacturers to ensure precise rotational orientation of the fiber structures before splicing, and ensure the optimal performance of the fiber network.

The Fiber Rotational Aligner features a high resolution camera and an extra-large LED screen, users can easily adjust and monitor the fiber alignment angle easily before the fibers are spliced. It not only helps the fiber network to minimise data and power loss and prevent cross talk, but also helps the fiber manufacturers to ensure production quality and maintain cost efficiency.

Key Features and Benefits

- Equipped with a built-in camera and a high resolution screen for live monitoring of fiber orientation alignment.
- Customisable to fit various fiber holders (e.g. NANF fiber at 250 μm , PM fiber)
- Production-ready software adaptable to various fiber applications



Production-ready software for live monitoring to ensure perfect alignment of fibers before splicing



Fiber Rotational Aligner

Technical Specifications

Physical

Fiber diameter	A wide range of fiber size supported.
Fiber types	A wide range of fiber types (e.g. NANF, DNANF, PMF) supported
Fiber Protrusion	11 - 14mm
Rotation Angle	+/- 42°

Optical

Pixel Resolution	0.23 μm (max zoom)
Field of View (max)	590 x 450 μm
Field of View (min)	165 x 165 μm

Physical

Weight	1.2 kg
Dimensions (Excluding Cabling)	155 x 165 x 90 mm
Power Supply	5V, 2A (external power supply supplied)
Power consumption	6W

For North American sales enquiries, call **+1 (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

Issued 4 December 2025

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
Central Florida Research Park,
3259 Progress Drive, Orlando, FL 32826
+1 727 504 8748

www.ardenphotonics.com
enquiries@ardenphotonics.com