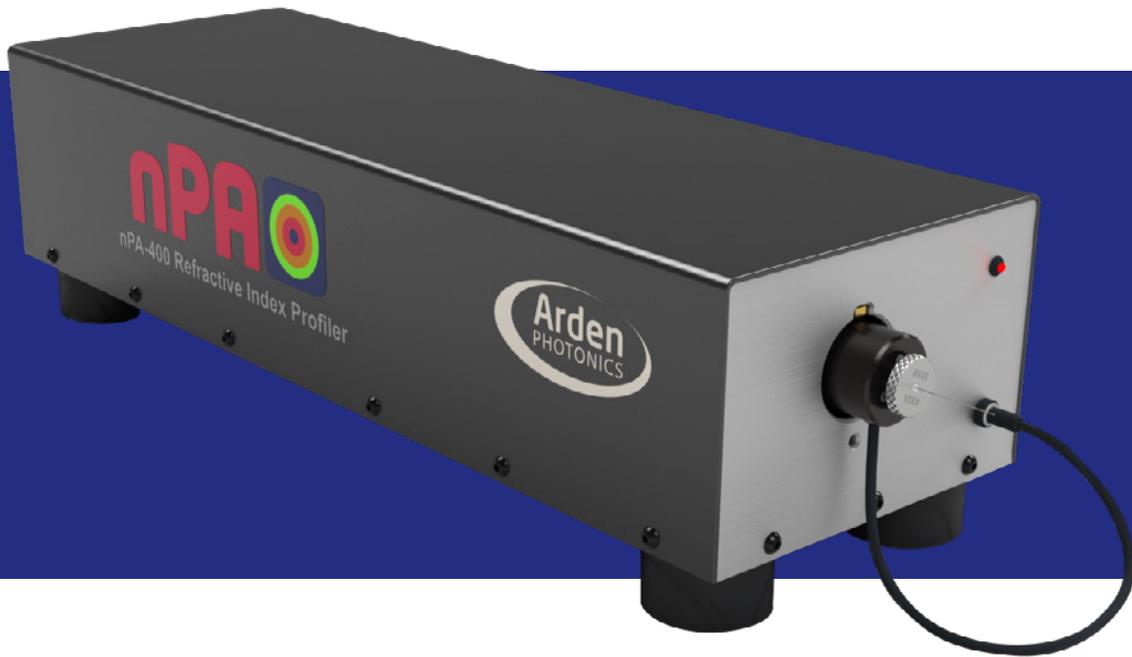




# nPA-400

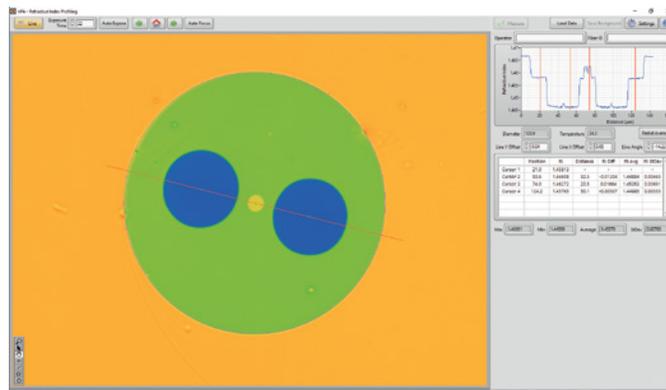
## Refractive Index Profiler



The nPA-400 Refractive Index Profiler uses a modified refracted near-field technique to analyse a fiber end-face to determine the full 2D refractive index distribution. The nPA-400 is the quick and easy way to get the Refractive Index data you need to verify your specialty fiber design and manufacturing processes.

### Features & Benefits

- Prepare and measure a fiber sample in under 2 minutes
- Measure fibers up to 400  $\mu\text{m}$  in diameter
- Measure 2D in seconds – no time consuming data reconstruction
- Measure non-circularly symmetric fibers – good for PM, octagonal, multicore
- Traceable calibration





# nPA-400

## Refractive Index Profiler

### Technical Specifications

#### Measurement Capabilities

Refractive Index Repeatability*	0.0002
Fiber Diameter	40 to 400 $\mu\text{m}$
Fiber Material	Silica glass
2D Measurement Time**	< 5 sec
Measurement Range***	+/- 0.025

\*Repeatability is measured on a 125  $\mu\text{m}$  MM fibre sample without removing from the measurement cell  
\*\* averaging 5 images  
\*\*\* around reference fluid index

#### Optical

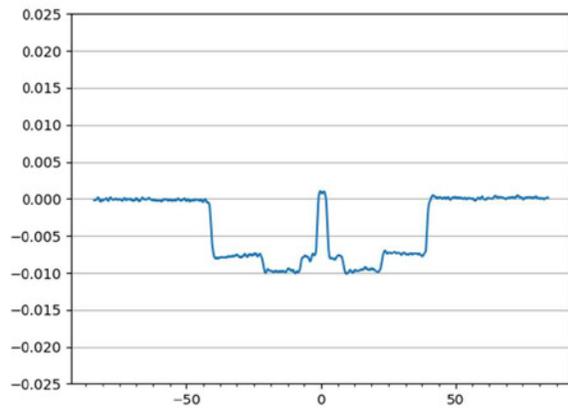
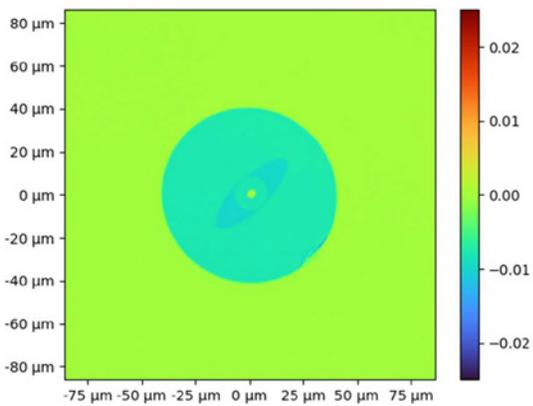
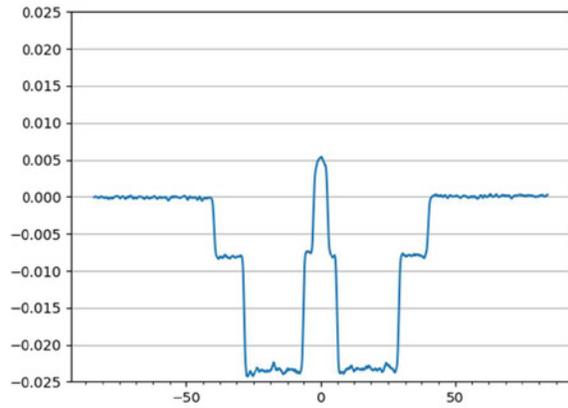
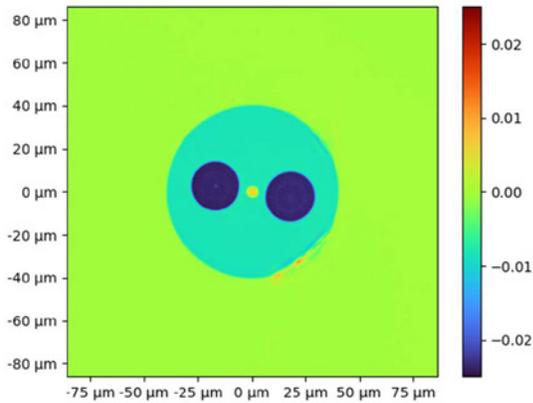
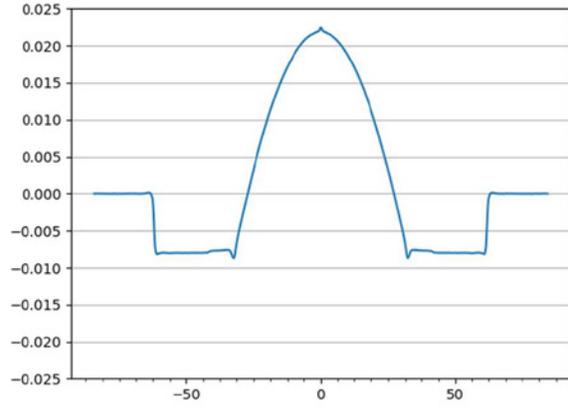
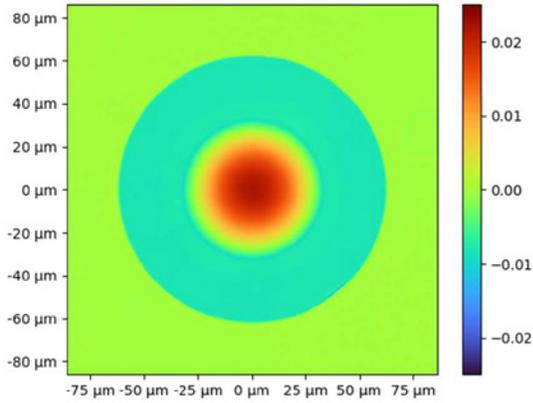
Measurement Wavelength	630 nm
Maximum Field of View	520 $\mu\text{m}$
Image Sensor	1.1 inch CMOS, 4096 x 3000 pixels resolution

#### Physical

Weight	6 kg
Size	0.5m x 0.16m x 0.13m
Operating Temp	15 – 30°C
Performance Specification	Validated at 22°C
Computer Requirements	All systems are supplied with a computer running up-to-date Windows operating system
Data Interface	1 X USB 3.0 (USB A to USB B: 1m cable supplied)

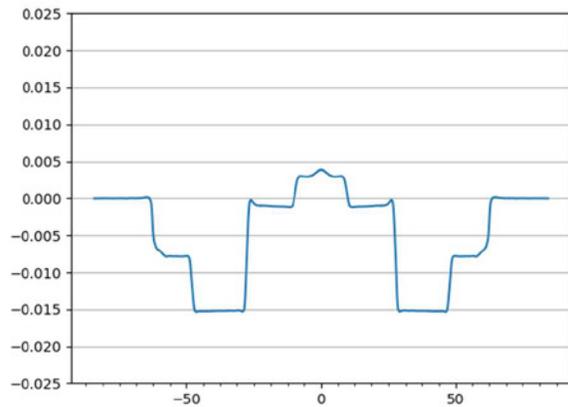
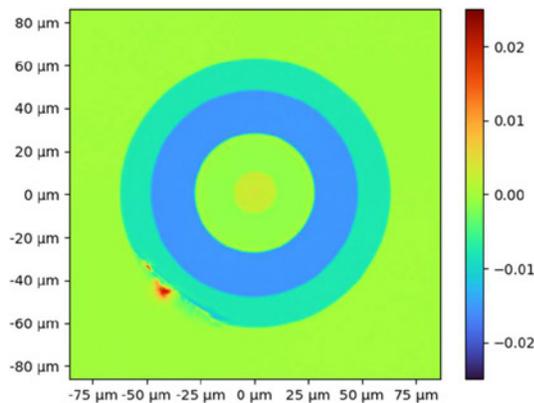
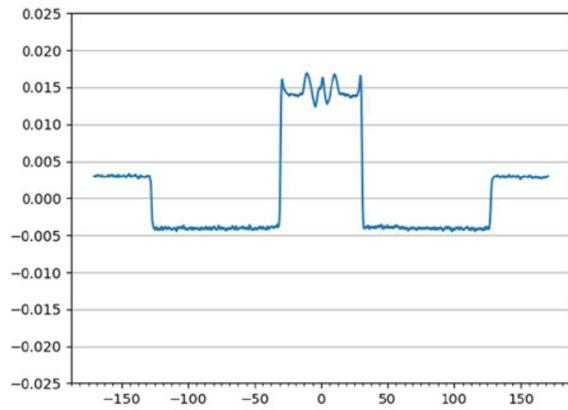
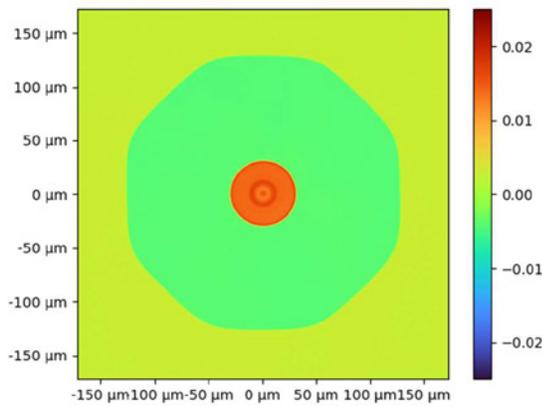
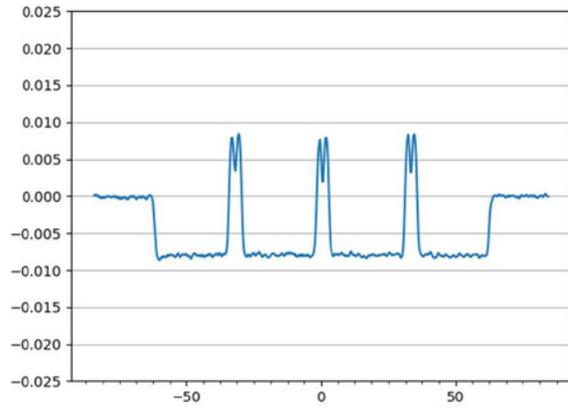
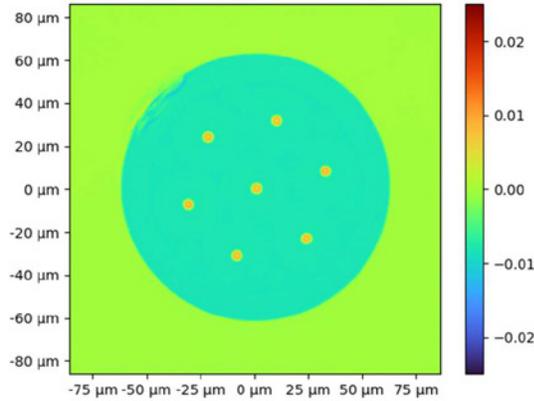


# nPA-400 Refractive Index Profiler





# nPA-400 Refractive Index Profiler



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