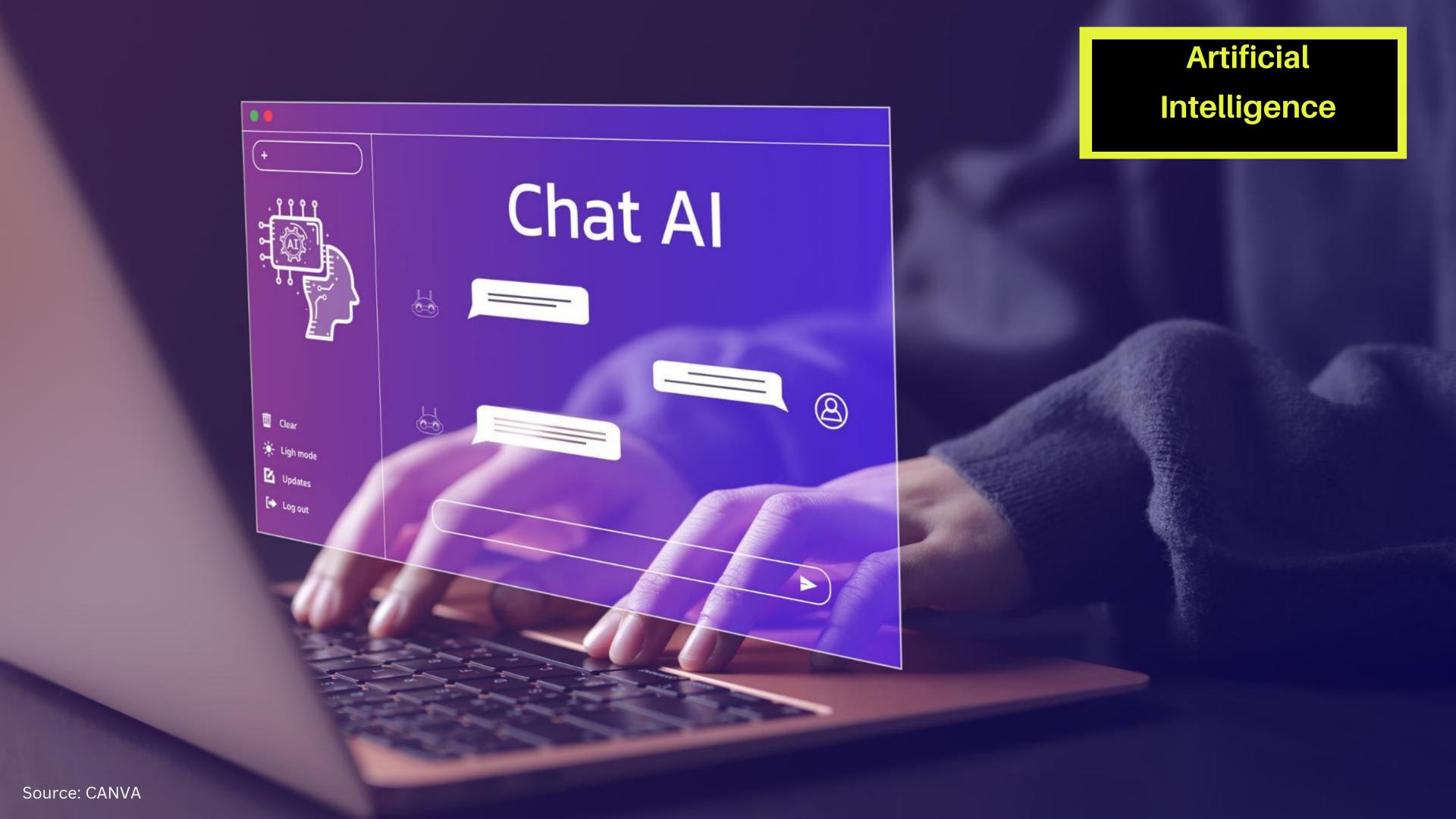


OPTICAL FIBER MEASUREMENT SPECIALISTS

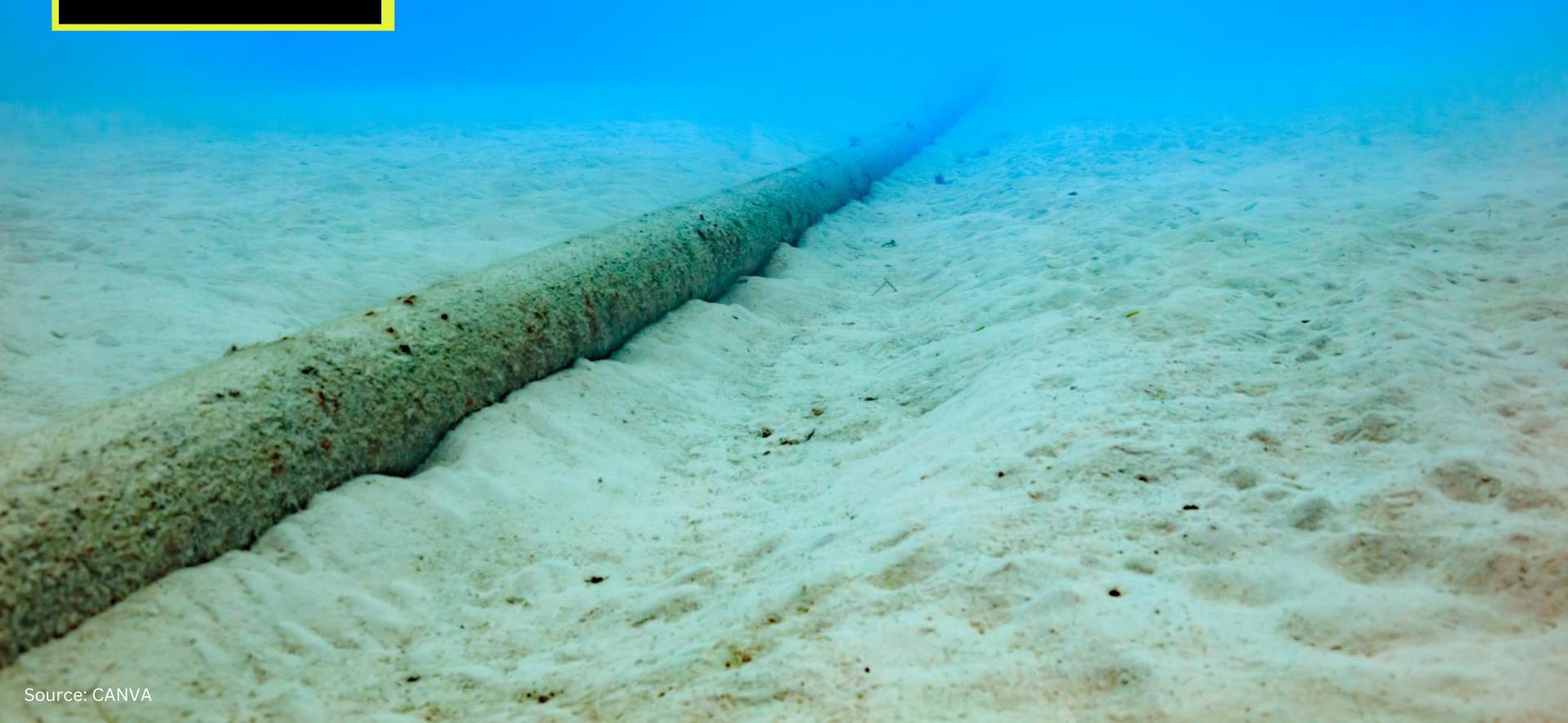
Characterising Specialty Fibers in the Al Age

David Robinson

Founder and CEO, Arden Photonics



Undersea Fiber Cable

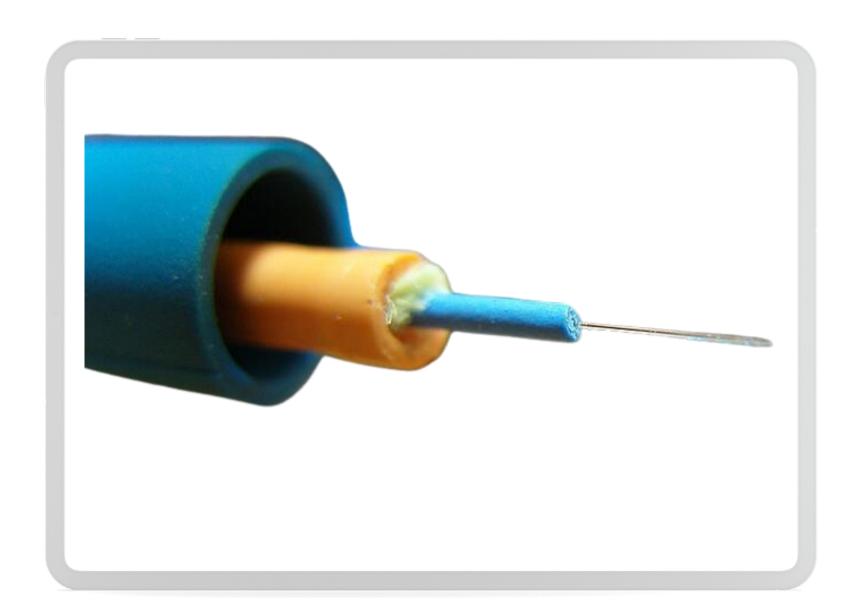








High speed multimode network



Multimode Fiber



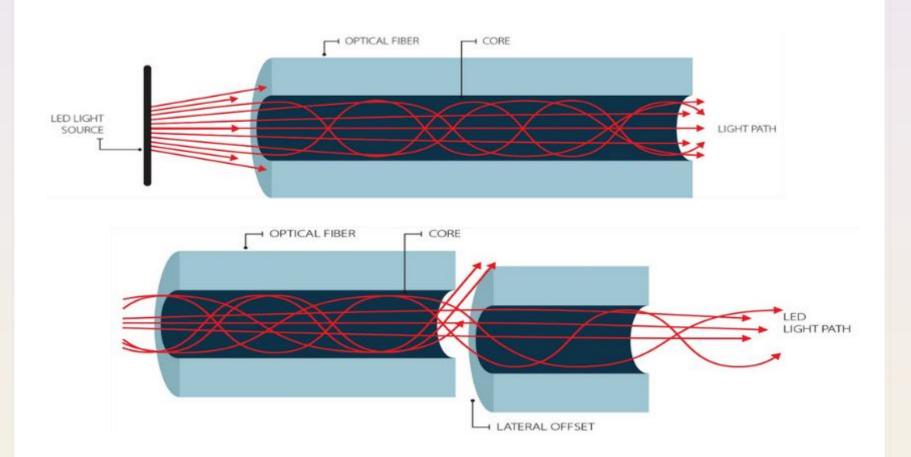
Multimode Transceiver

Source: Wikimedia Commons



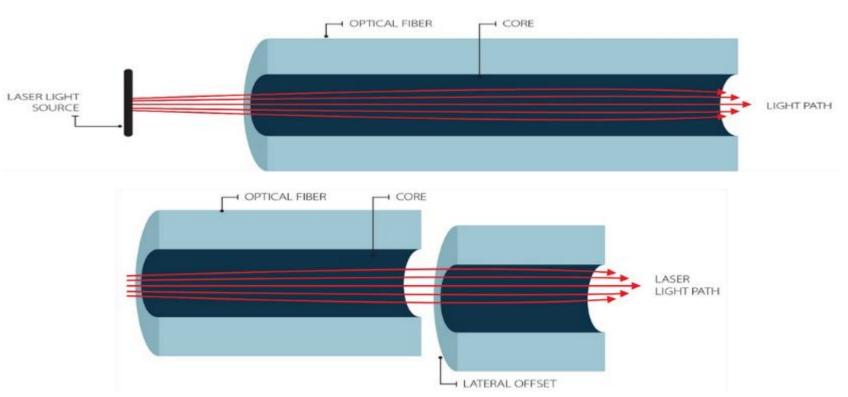
Optimising multimode network - Encircled Flux (EF)

Overfilled Launch



- Too much power put into higher order modes
- Unrealistically high loss values





- Too little power put into higher order modes
- Unrealistically low loss values



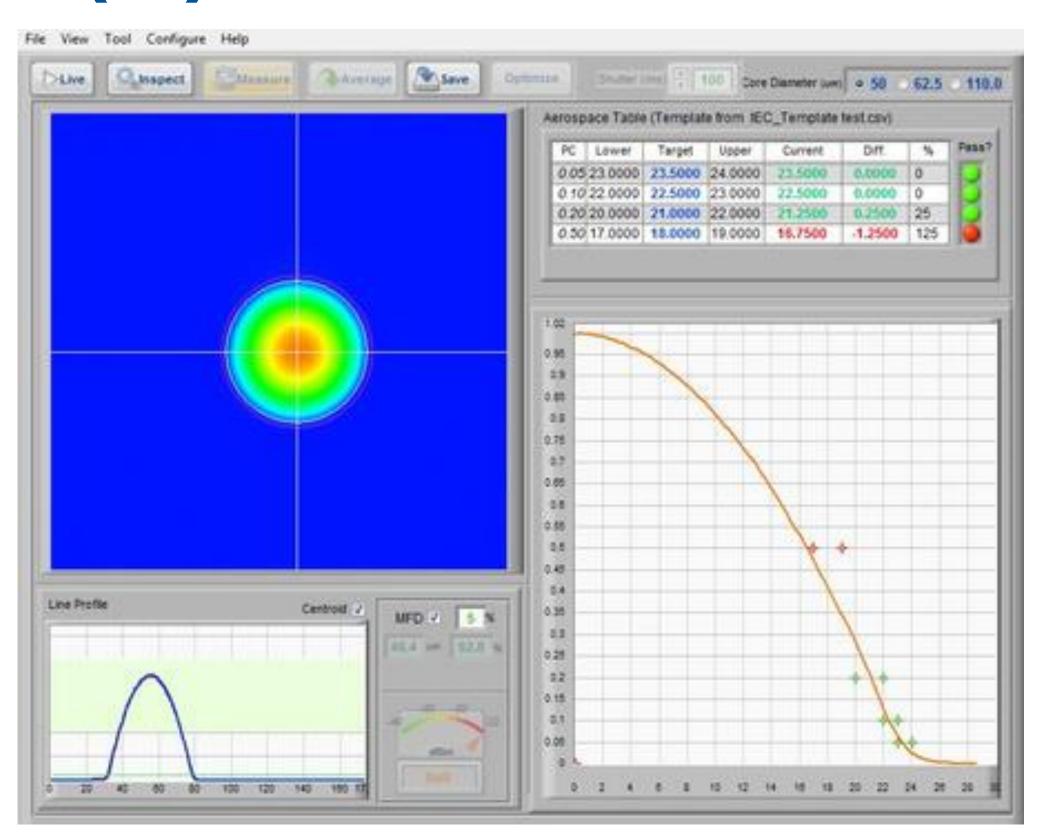
Optimising multimode network - Encircled Flux (EF)

- Measurement of the distribution of power within the core of a multimode fiber
- The percentage of power within a given fiber core radius when light is launched by a transmitter into a multimode fiber

Solutions:

EF Meter

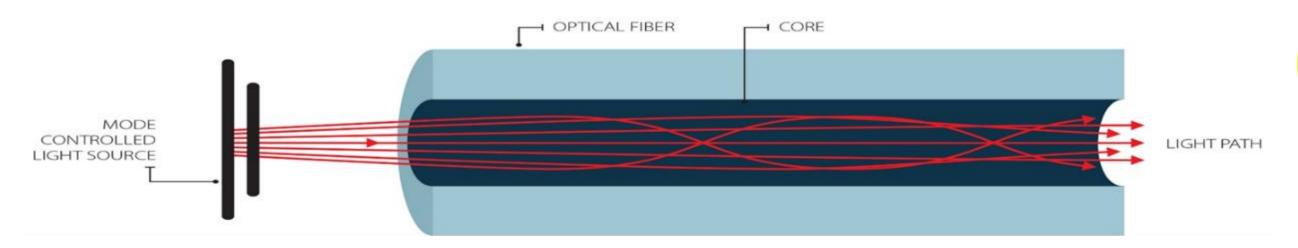
Mode Controller



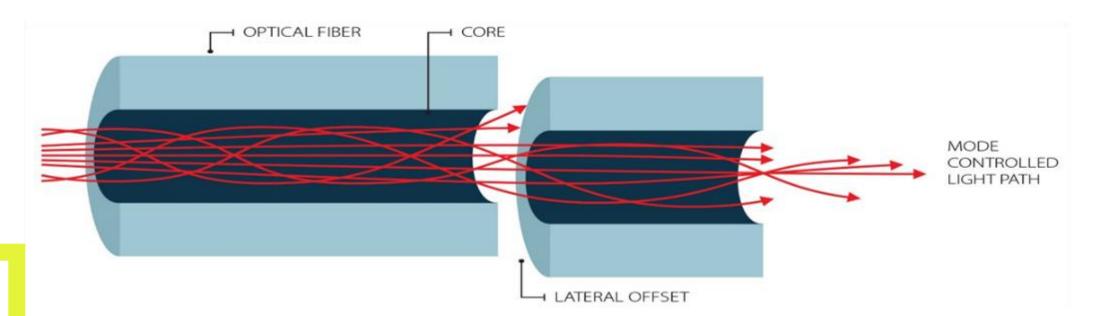


Optimising multimode network - Encircled Flux (EF)

An encircled flux compliant launch



Improved Accuracy & Reliability



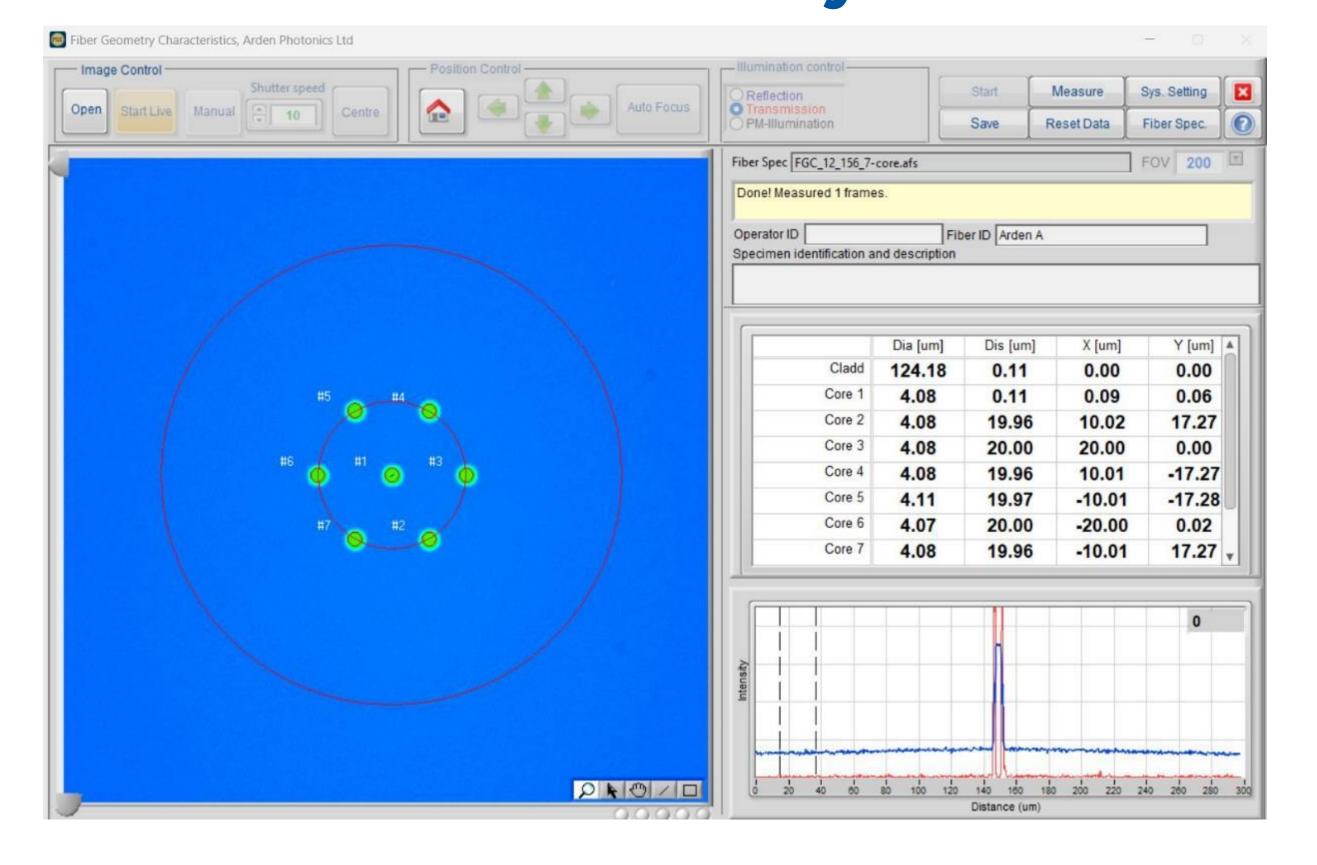
Solutions:

EF Meter Mode Controller

Standardised amount of light into higher order modes



Characterising Multicore Fibers - Fiber Geometry

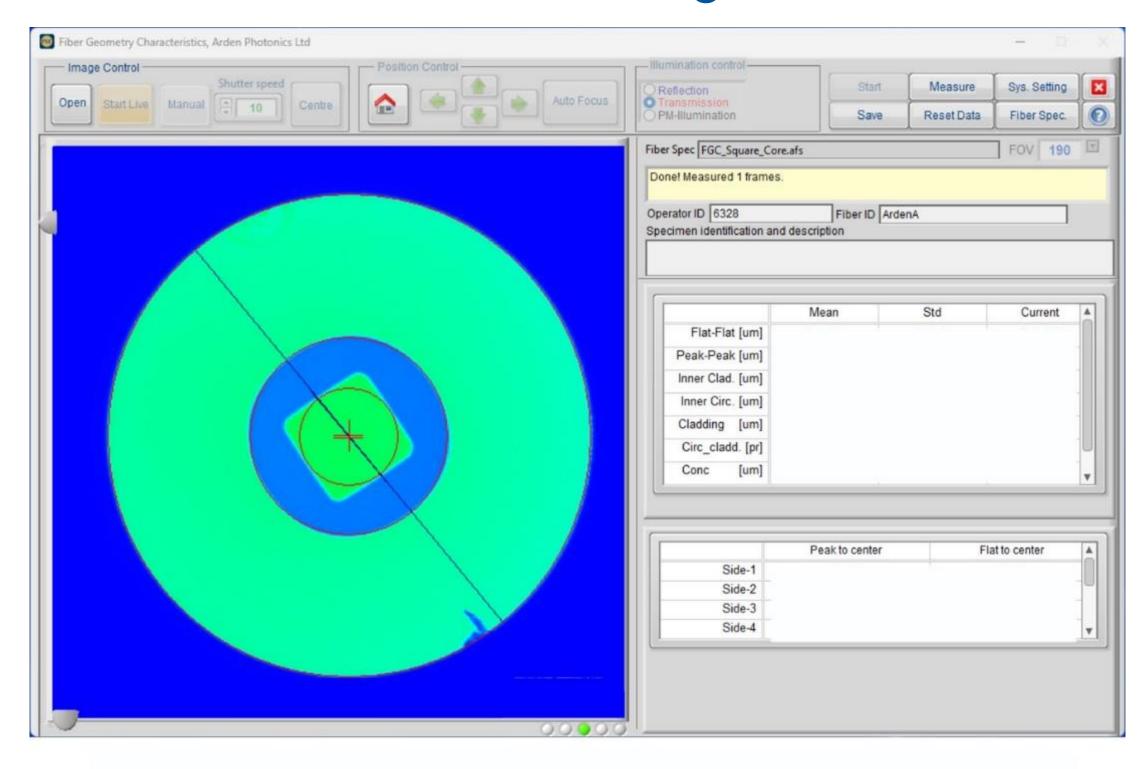


Essential for low-loss splicing

Solution: Fiber Geometry



Characterising Square Core Fibers - Fiber Geometry

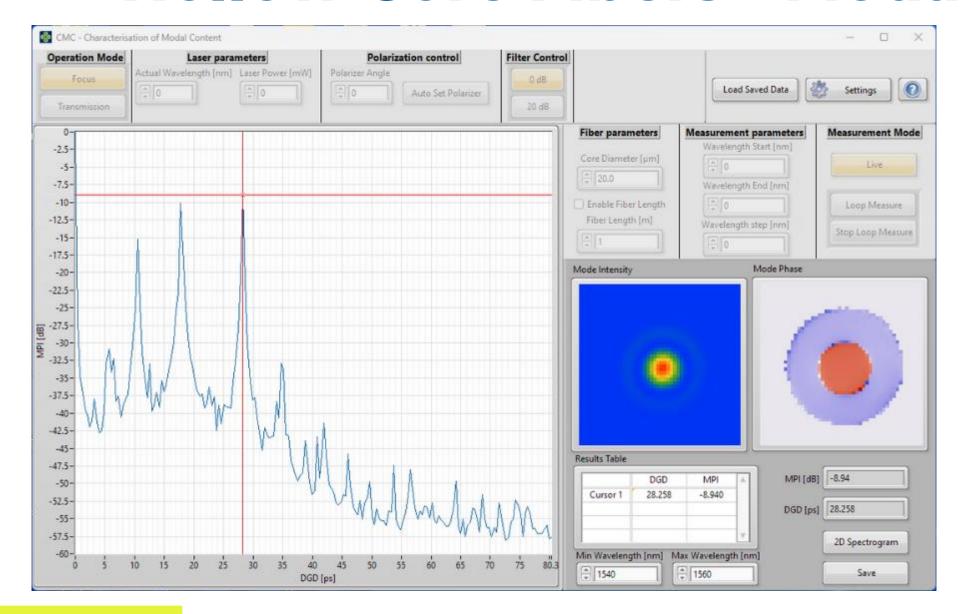


Medical Imaging/ Laser Cutting

For the reason of confidentialy, the measurement data has been masked

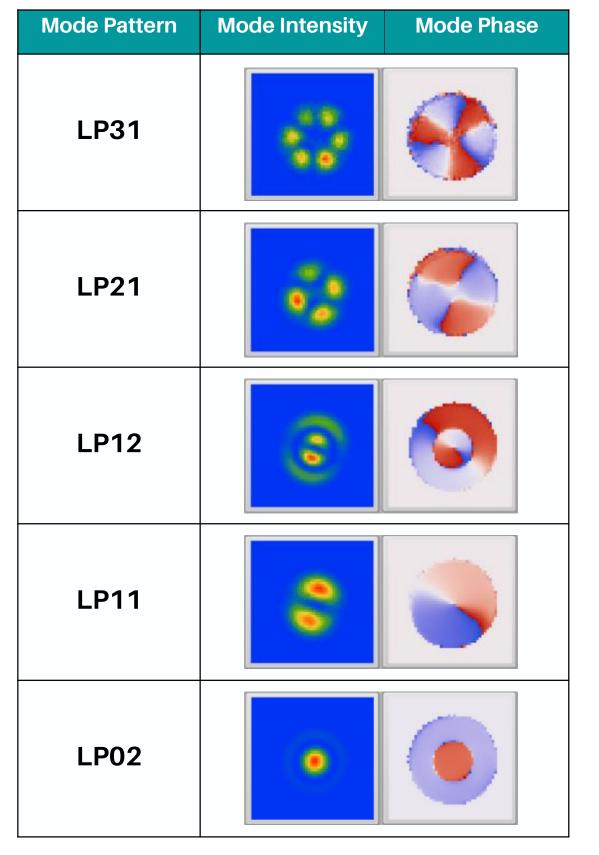


Characterising Few Modes Fibers and Hollow Core Fibers - Modal Content



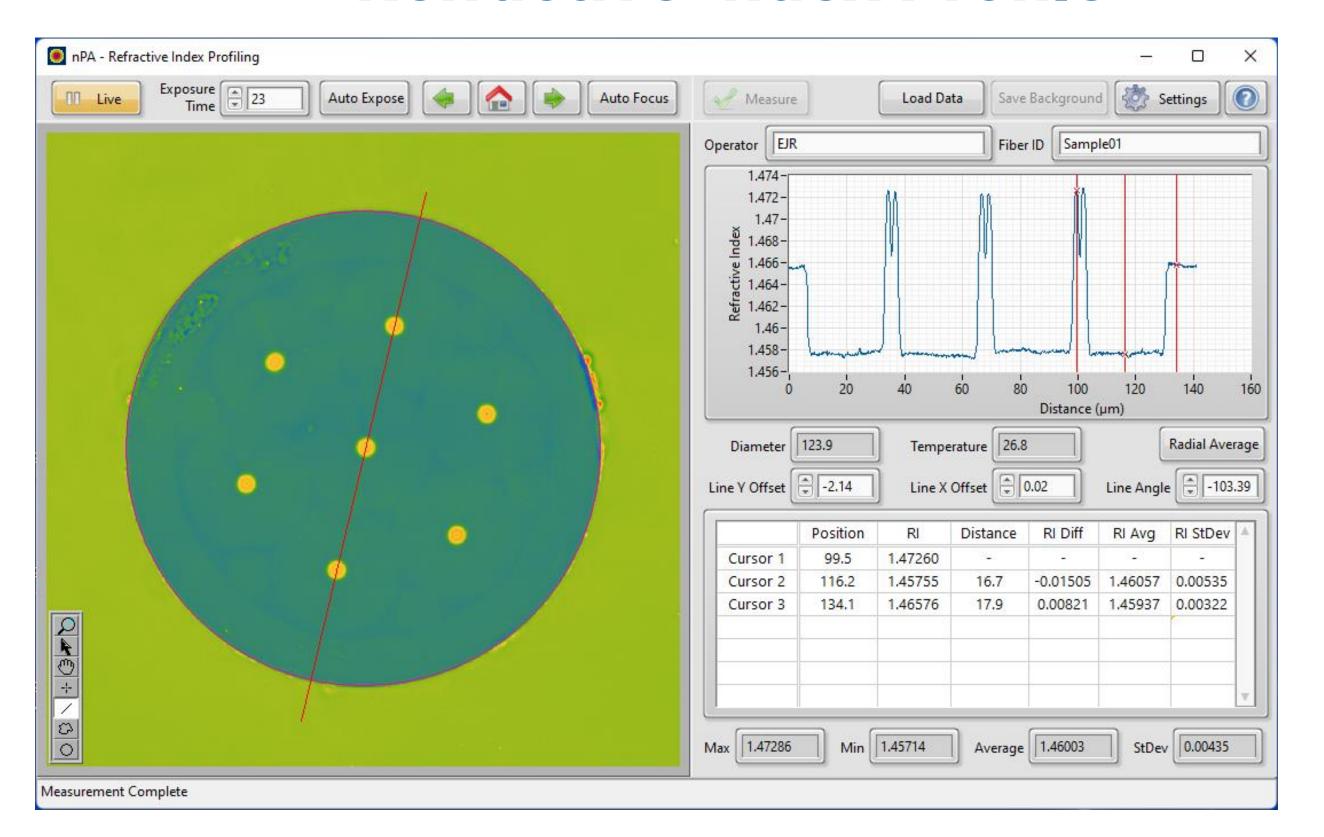
The only spin the spin the market

Solution: Modal Content Analyser





Characterising Multicore Fibers - Refractive Index Profile

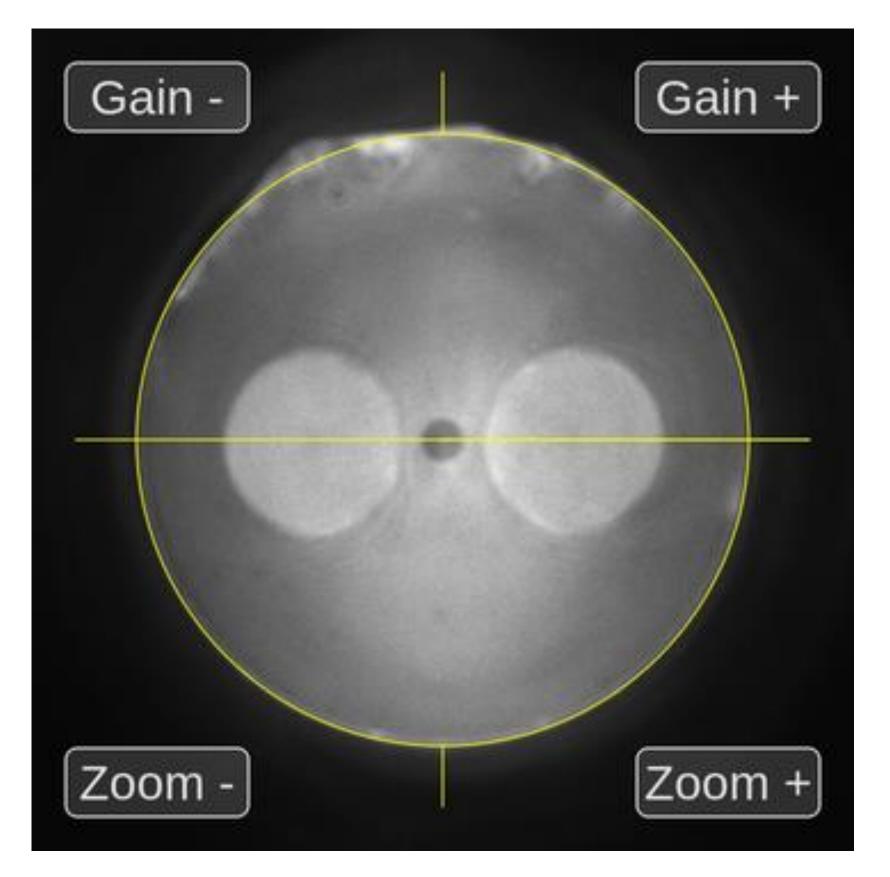


Essential for Optimising fiber performance

Solution:
Refractive Index
Profiler



Aligning Specialty Fibers before Splicing

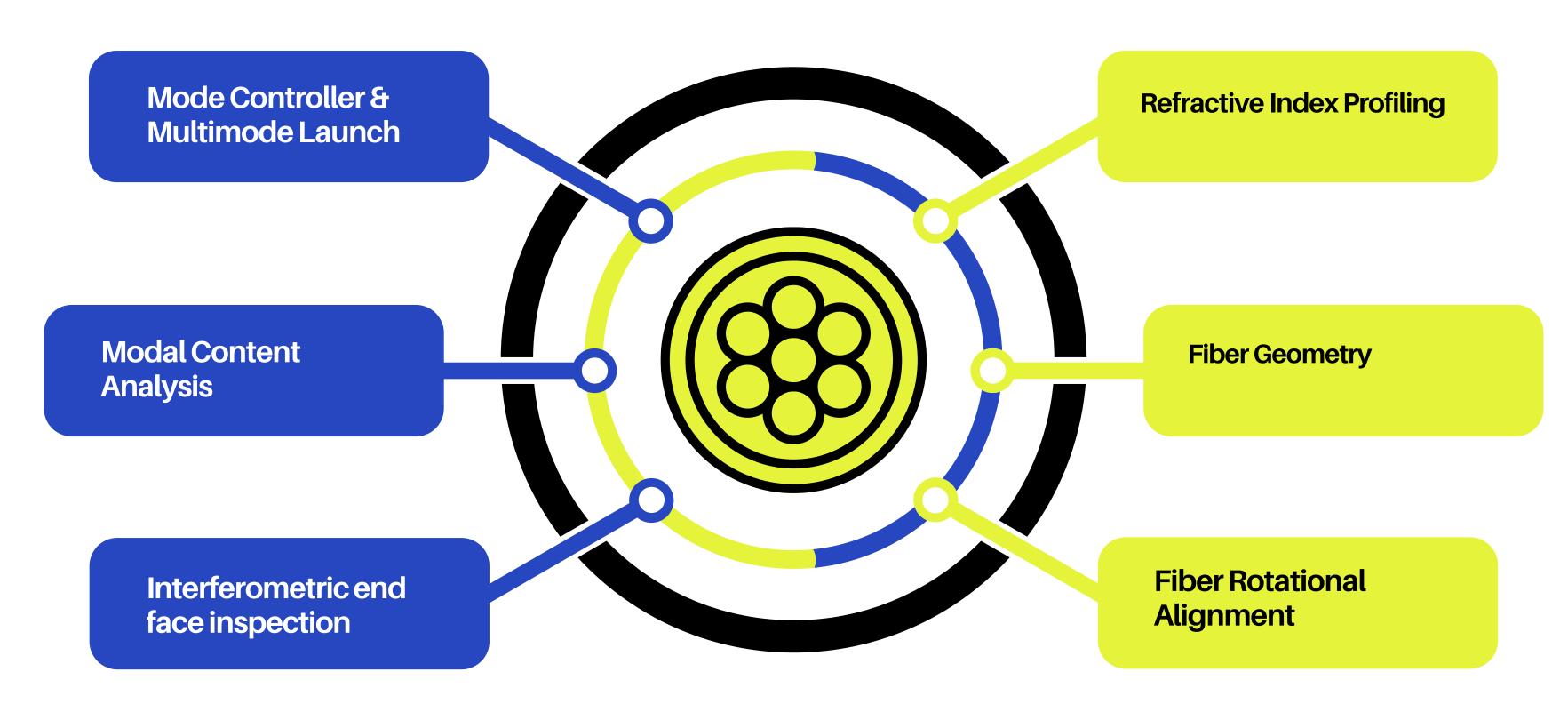




Solution:
Fiber Rotational
Aligner



We measure most fibers. Our Expertise are...











We are the only specialty fiber measurement specialists



OPTICAL FIBER MEASUREMENT SPECIALISTS