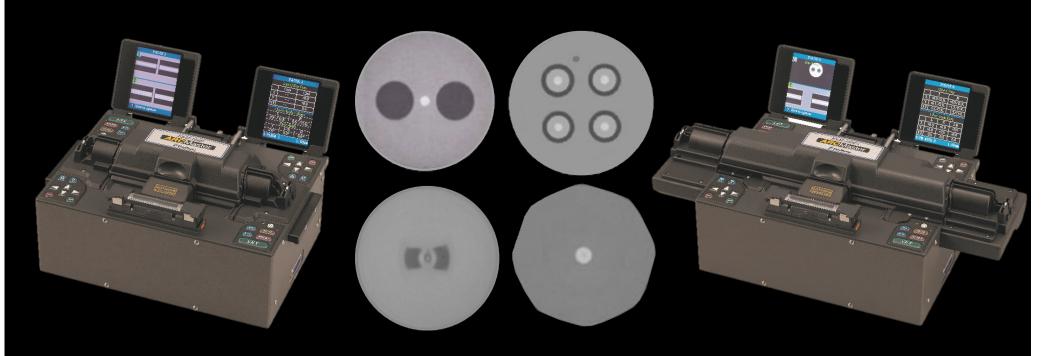
Specialty Fiber Fusion Splicer FSM-100P/P+

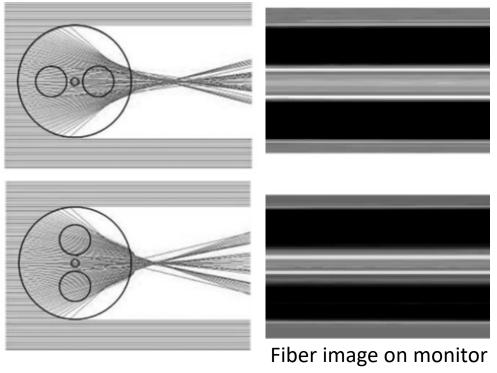
New Added Observation Method For Fiber Rotational Alignment



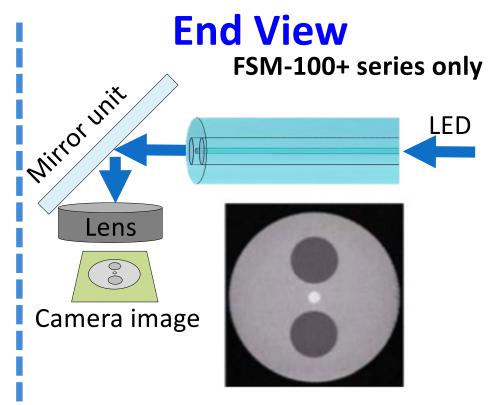
Improving on Proven Technology

Observation Method for Fiber Rotation Alignment

Side View



2 type of theta alignment method Panda / IPA mode

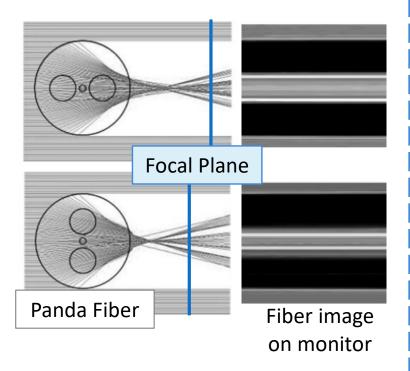


Insert illumination LED and observe the fiber end face

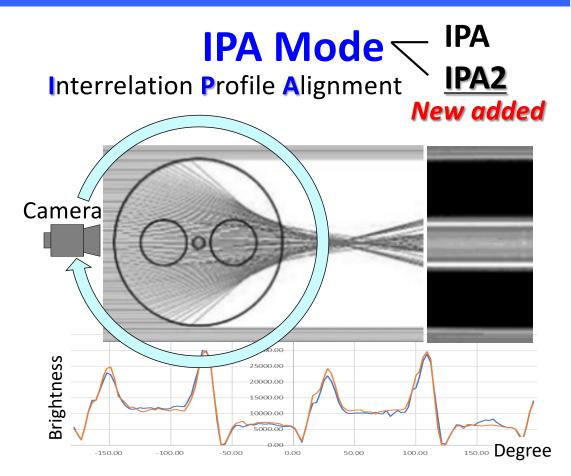


Observation Method for Fiber Rotation Alignment

Panda Mode



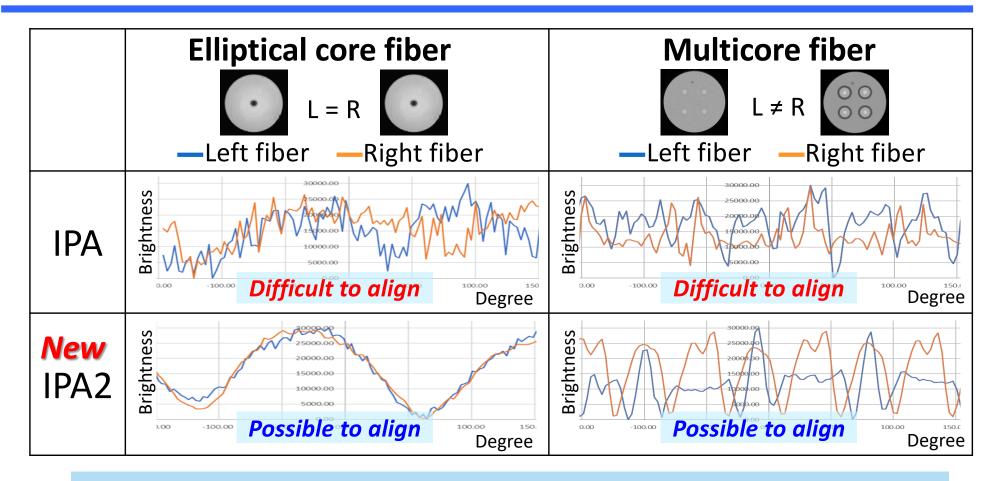
Matching with Panda fiber brightness data



Profiling from brightness data for each degree and matching the interrelation of L-R fibers



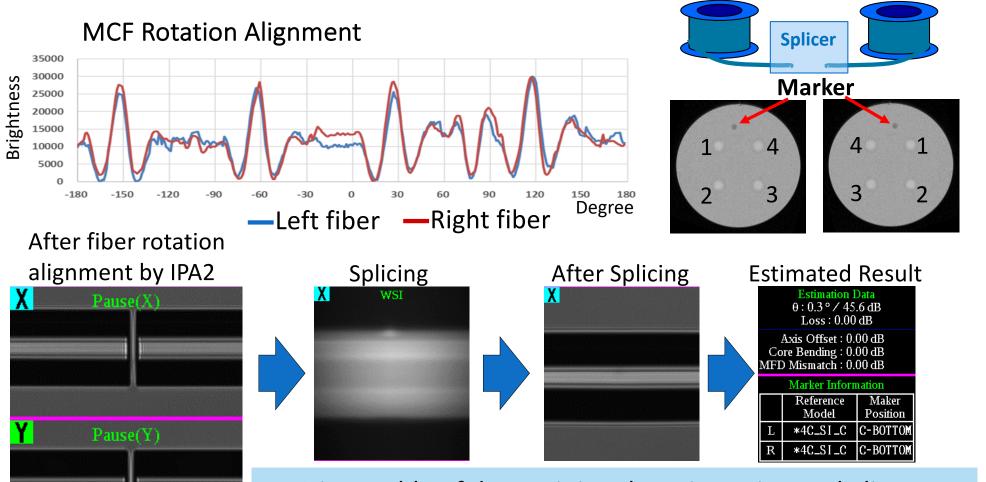
Comparison of IPA and IPA2 data profile



IPA2 provides noise reduced profile data compared to IPA. This makes it possible to distinguish the small differences in fiber structure.



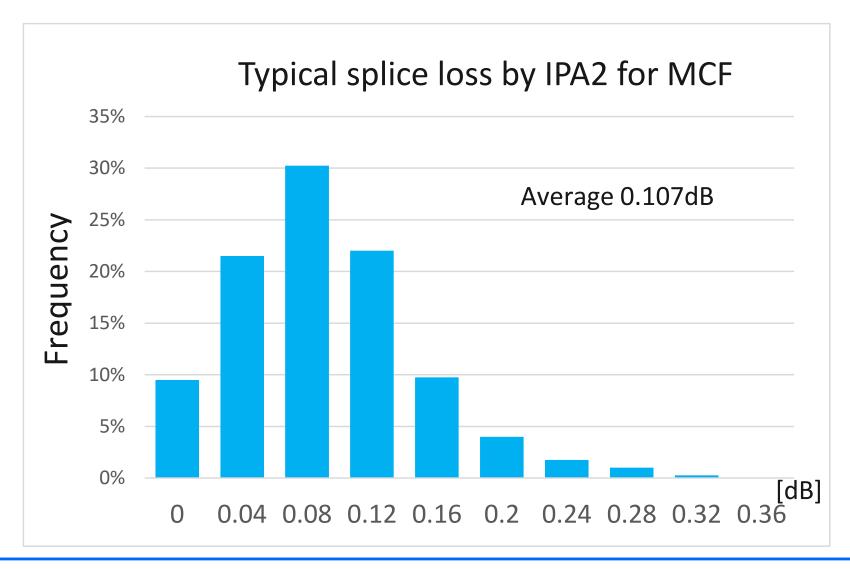
IPA2 alignment and splicing for MCF



IPA2 is capable of determining the orientation and alignment of not only the fiber cores but also a marker in fiber.



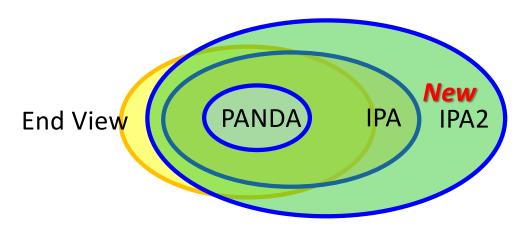
IPA2 alignment and splicing for MCF





Comparison table 1

Alignment mode	View Image	Applicable Model	Applicable Fiber	
PANDA		FSM- 100P/P+	Specialized for Panda	
IPA	Side View		Covering many type of fibers	
New IPA2				
End View	End View	FSM- 100P+ only	Covering many type of fibers	



Covering image of each alignment mode



Comparison table 2

Align Method	Fiber End	PANDA, Bow-tie	IPA	New IPA2	End View	
Fiber Type					Auto	Manual
PANDA Fiber (Tested with Fujikura Panda Fiber)	$\bigcirc \circ \bigcirc$					
Bow-tie Fiber						
Elliptical-core Fiber						
Multicore Fiber	000000000000000000000000000000000000000					
Octagonal Fiber	0					
PCF Fiber						

IPA2 can cover wider range of specialty fibers!

