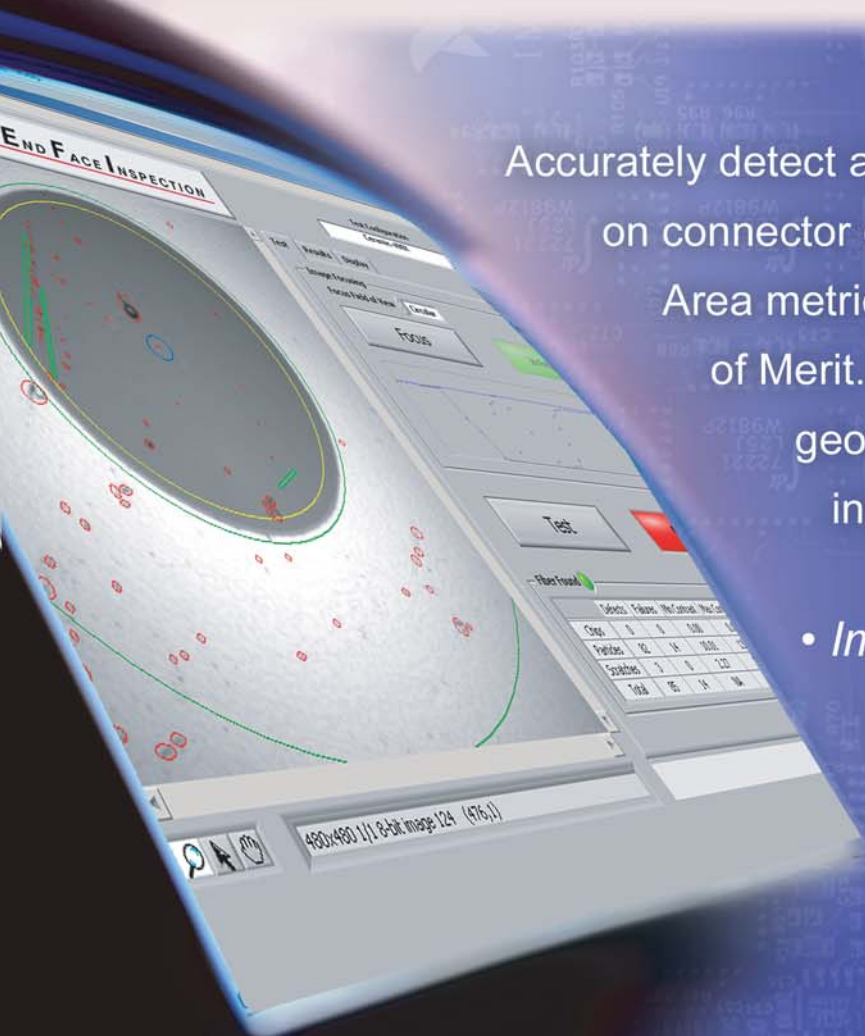


# FIBERQA™ - END FACE INSPECTION



Accurately detect and classify scratches and particles on connector end faces. Use the PVI Occluded Area metric for robust end face quality Figure of Merit. Identify and measure critical fiber geometries. Interface with existing inspection stations.

- *Improve Quality Control*
- *Increase Profitability*
- *Gain Competitive Advantage*

**Take the Guess Work Out of Fiber Inspection**

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(860) 739-8044**



**PVI  
Systems**

# FIBERQA™ - END FACE INSPECTION

The screenshot displays the FiberQA - EFI software interface. On the left, a microscope image of a fiber end face is shown with a circular analysis area overlaid. The interface includes a menu bar (File, Edit, Testing, Configure, Help), a title bar (FiberQA - EFI), and a main window with a 'Test Configuration' dropdown set to 'MT 350x'. Below the image, there are navigation icons and image properties: '480x480 1/1 8-bit image 81 (479,313)'. The bottom of the window shows the 'Filename' as 'MT350x-Scratches and Particles.png' and the 'Filepath' as '%C:\Program Files\PVI Systems\FiberQA-EFI\Tested Images'. On the right side, there are tabs for 'Test', 'Results', and 'Display'. Under 'Results', there are sub-tabs for 'Defects', 'Failures', 'Metrology', 'SPC', and 'Test Info'. The 'Rule Results' table is as follows:

P/F	Rule #	Zone	# Allowed	# Found	Description
✓	Rule 1	A (Core)	0	0	1) No Particles > 5um
✓	Rule 2	A (Core)	2	2	2) 2 Particles from 2 to 5um
✓	Rule 3	A (Core)	0	0	3) No Scratches > 2.6um
✓	Rule 4	A (Core)	5	5	4) 5 Scratches < 2.6um
✗	Rule 5	B (Cladding)	0	3	5) No Particles > 5um
✓	Rule 6	B (Cladding)	8	5	6) 8 Particles from 2 to 5um
✓	Rule 7	B (Cladding)	0	0	7) No Scratches > 2.6um
✓	Rule 8	B (Cladding)	10	7	8) 10 Scratches < 2.6um

Below the table is the 'Defect Info for Selected Rule' section:

P/F	Description
✗	5) No Particles > 5um - Fail if any of 0 defects in Zone B (Cladding) 1) Particle Diameter is greater than 5.0000 um
✗	Particle 3 Diameter 5.4 um
✗	Particle 4 Diameter 9.1 um
✗	Particle 6 Diameter 5.3 um

## Features

- Accurate and Reliable Defect Detection
- Customizable Defect Definitions and Test Limits
- Measures 2D Fiber Geometry
- Database Reporting for Quantitative Assessments
- Compatibility with All Video Output Microscopes

## Benefits

- Reduce Labor Requirements
- Increase Inspection Throughput
- Improve Quality Control
- Competitive Advantage

## Detects and Measures

- Scratches and Particles
- Occluded Area Metrics
- Core and Cladding Diameter
- Core and Cladding Concentricity
- Epoxy Ring Thickness



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