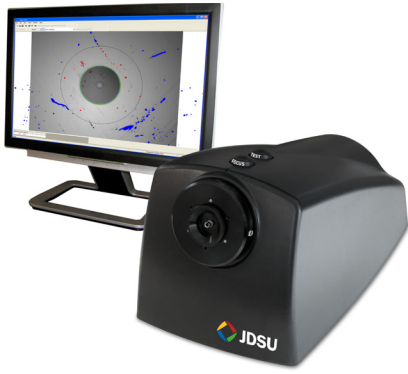


FVA Benchtop Microscope with FiberChekPRO™

Fully Automated Benchtop Microscope with Fiber Analysis Software



FVA Benchtop Microscope w/ FiberChekPRO

Key Features

- **Fully-automated inspection system:**
 - Quickly and consistently focuses and centers fiber end face
 - Locates and counts defects and scratches
 - Evaluates against PASS/FAIL criteria
- **Adjustable, scalable automation settings from all-manual to all-automated**
- **Archives results and images in HTML or PDF format and generates integrated reports**
- **Plugs directly into PC via USB 2.0 connection**
- **FiberChekPRO pre-programmed with International Electrotechnical Commission (IEC) acceptance criteria standards for single-mode and multimode connectors**

Applications

- Automatically inspects and analyzes fiber optic connectors in manufacturing and quality assurance environments
- Automatically focuses, centers, captures, and analyzes fiber end face images, and obtains instant PASS or FAIL result
- Standardizes fiber inspection and analysis procedures

Benefits

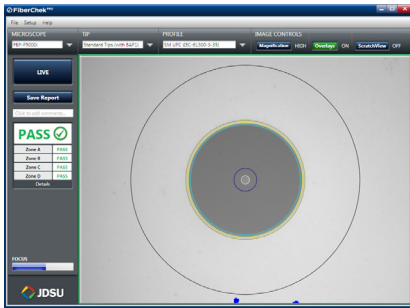
- Eliminate subjectivity from inspection with a fully automated repeatable system for fiber inspection
- Significantly reduce total inspection time by removing the need to focus the fiber manually
- Document that your product is compliant to end face quality standards, such as IEC-61300-3-35
- Easily define and enforce your Pass/Fail criteria

Fully Automated FVA Benchtop Microscope

The new FVA digital fiber microscope is a unique device that fully automates the inspection process, significantly reducing inspection time and simplifying workflow. The FVA microscope is used to inspect the polished surface of fiber optic connectors, and its high-resolution results are ideally suited for post-polish inspection of high-quality end faces. It also detects scratches that technicians may miss, delivering the level of sensitivity long sought in the industry. The FVA is powered by a 12V adapter (included) and a PC via USB 2.0.

FiberChekPRO is an advanced application that determines the acceptability of optical fiber end faces through automated inspection and analysis. It identifies and characterizes defects and contamination and determines their location relative to the fiber core. It then provides a PASS or FAIL result according to a pre-configured failure criteria setting.



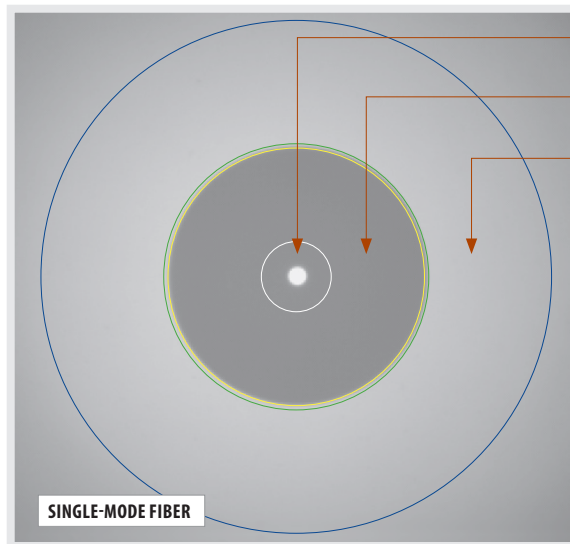

FiberChekPRO User Interface

Note: Zones are a series of concentric circles that identify areas of interest on the connector end face. The inner-most zones are more sensitive to contamination than the outer zones.

FiberChekPRO Software

As different types of defects are located and identified, FiberChekPRO measures the size of each feature, determines its location relative to the core, and analyzes the collected data to obtain a Pass or Fail result based on parameters configured for each pre-defined setting.

Because defects and contamination on or near the core surface typically affect the light transmission most significantly, they require the most aggressive examination. FiberChekPRO defines the concentric areas around the core as Zones, which let users establish failure criteria by evaluating various defect categories, including contamination, pit/chip, and scratches.



- A** CORE Zone
- B** CLADDING Zone
- C** FERRULE/CONTACT Zone

Field-of-view Values (µm)

	High-mag	Low-mag
FVA-2400	Horizontal: 185 Vertical: 140 Diagonal: 230	Horizontal: 300 Vertical: 225 Diagonal: 375
FVA-2400-L*	Horizontal: 200 Vertical: 150 Diagonal: 250	Horizontal: 325 Vertical: 245 Diagonal: 400
FVA-2200	Horizontal: 400 Vertical: 300 Diagonal: 500	Horizontal: 640 Vertical: 480 Diagonal: 800
FVA-2080	Horizontal: 1060 Vertical: 800 Diagonal: 1325	Horizontal: 1710 Vertical: 1280 Diagonal: 2135

*Select FVA-2400-L when inspecting multi-fiber or ribbon connectors with guide pins.

FVA Benchtop Specifications

Dimensions	150 x 135 x 242 cm (5.9 x 5.3 x 9.5 in)
Weight	1.6 kg (3.6 lbs)
Controls	Autofocus; auto-inspect and analyze
Resolution	800 x 600 pixels
Connector type	USB 2.0 (with locking mechanism)
Cord length	183 cm (6 ft)
Camera sensor	2560 x 2048 (5 megapixel) monochrome; 1.27 cm (1/2.5-in) CMOS
Particle size detection	< 0.5 µm
Light source	Blue LED; 100,000+ hour life
Lighting technique	Coaxial
Power source	12VDC/500mA power input
Certification	CE
Warranty	1 yr

Test & Measurement Regional Sales

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