



Enabling Australia's Field Technicians to build, troubleshoot and maintain better communications networks.



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Industry Best Pricing



Finance Available



Short to Medium Project-Based Rental Solutions



Dedicated Technical & After-Sales Support



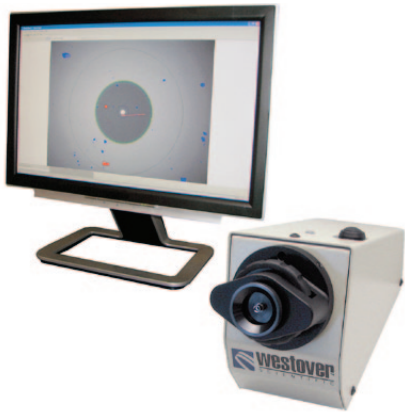
In-house Diagnostics, Repair & NATA Calibration Laboratory



FREECALL 1800 680 680

FVD Bench-top Microscope & FiberChek2™

Bench-top Microscope & Automated Inspection & Analysis Software



PC / display not included.

Key Features

- Determines acceptability of fiber end faces by utilizing an advanced automated inspection and analysis software
- Ensures consistent results by removing human subjectivity from fiber inspection and grading
- Identifies and characterizes each defect and contamination particle, and determines their location relative to the fiber core
- Archives results and images as HTML or PDF formats and generates integrated reports
- Plugs directly into PC/laptop via USB 2.0 connection
- Produces clear detailed view of fiber end face conditions with high-resolution camera and coaxial illumination

Applications

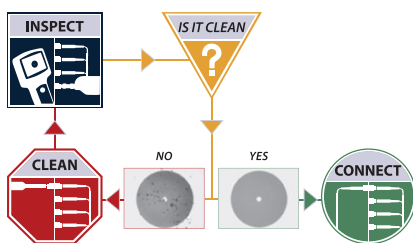
- Inspect and analyze patch cords and jumper cables in manufacturing and quality assurance environments
- Automatically capture and analyze fiber end face images, and obtain a PASS/FAIL result according to pre-configured criteria
- Standardize fiber inspection and analysis process

FVD Bench-top Microscope and FiberChek2

The FVD-series digital fiber microscope is used to inspect the polished surface or cleaved ends of fiber optic connectors. This high-resolution bench-top inspection microscope is ideally suited for post-polish inspection of high-quality end faces and can repeatedly detect scratches that may be missed by human technicians, delivering the level of sensitivity long sought in the industry. The FVD requires a connector adapter and PC to supply power to the unit through the USB 2.0 port.

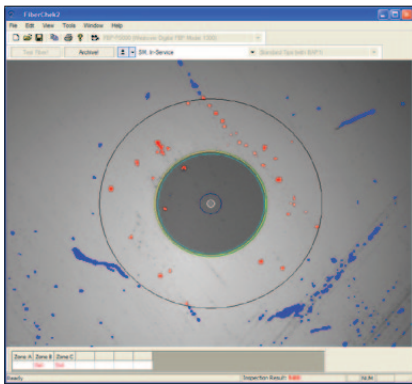
FiberChek2 is an advanced application that determines the acceptability of optical fiber end faces through automated inspection and analysis. It identifies and characterizes defects and contamination and determines their location relative to the fiber core. It then provides a PASS or FAIL result according to a pre-configured failure criteria setting. It is an intuitive, effective, and practical solution for fiber end face grading and inspection.

Inspect Before You ConnectSM



Contamination is the number 1 reason for troubleshooting optical networks. Proactive inspection and cleaning of fiber connectors can prevent poor signal performance, equipment damage, and network downtime.





FiberChek2 User Interface

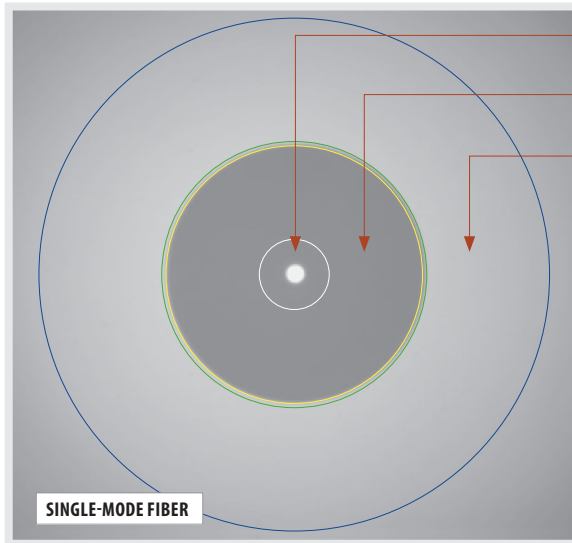
As different types of defects are located and identified, FiberChek2 measures the size of each feature, determines its location relative to the core, and analyzes the collected data to obtain a PASS or FAIL result based on parameters configured for each pre-defined setting.

Because defects and contamination on or near the core surface typically affect the light transmission most significantly, they require the most aggressive examination. FiberChek2 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.

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.



FiberChek2 HTML Summary Report



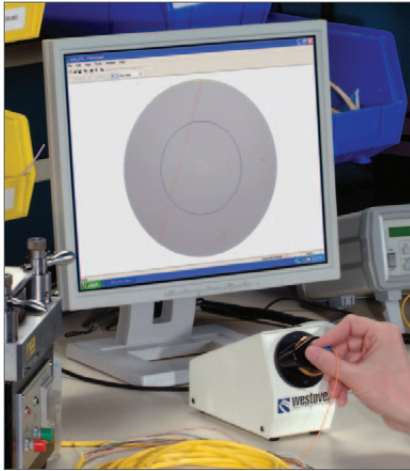
- A** CORE Zone
- B** CLADDING Zone
- C** FERRULE/CONTACT Zone

Benefits

- Eliminates human subjectivity for consistent, standardized result when inspecting and grading fiber
- Configurability allows for user-defined PASS/FAIL criteria settings
- Standardizes inspection, analysis, and grading process throughout fiber networks
- Records and archives results in HTML or PDF formats

FiberChek2 Automated Procedures

1. Acquires the fiber image
2. Analyzes the image
3. Finds defects and their location to fiber core
4. Measures and evaluates the defects within each specified Zone
5. Determines whether defects within the Zones are acceptable according to the pre-configured failure criteria for each Zone
6. Displays the results as PASS or FAIL
7. Saves or prints all relative results in designated directory or printer, respectively



FVD Bench-top Specifications

Dimensions	17.8 x 7.9 x 11.7 cm (7.0 x 3.1 x 4.6 in)
Weight	1.36 kg (3.0 lbs)
Live image	800 x 600; 15 fps
Connector	USB 2.0
Cord length	183 cm (6 ft)
Camera sensor	1280 x 1024 black and white, 1/3-in (1.27 cm) CMOS
Particle size detection	< 0.5 μ m
Light source	Blue LED, 100,000+ hour life
Lighting technique	Coaxial
Power source	USB port
Certification	CE
Warranty	1 yr

Field of View Values (μ m)

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

Ordering Information

FVD-2080	Digital fiber inspection bench-top microscope (80X); USB 2.0; FiberChek2 software; FMA adapter: universal 2.5 mm connectors
FVD-2200	Digital fiber inspection bench-top microscope (200X); USB 2.0; FiberChek2 software; FMA adapter: universal 2.5 mm connectors
FVD-2400	Digital fiber inspection bench-top microscope (400X); USB 2.0; FiberChek2 software; FMA adapter: universal 2.5 mm connectors
FVD-2400-L*	Digital fiber inspection long working distance (LWD) bench-top microscope (400X); USB 2.0; FiberChek2 software; FMA adapter: universal 2.5 mm connectors

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

Test & Measurement Regional Sales

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