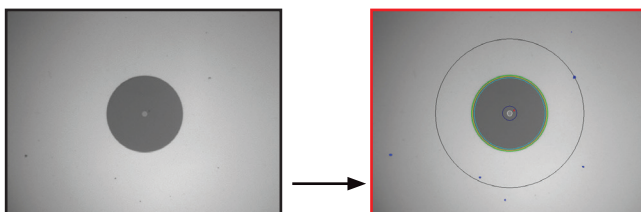Data Sheet

VIAVI
P5000i Digital Analysis Microscope
Automated Fiber Inspection and Pass/Fail Analysis

The #1 cause for troubleshooting in optical networks is contaminated fiber connectors. To address this problem, the International Electrotechnical Commission (IEC) has developed a standard for acceptable fiber end-face quality. Yet certifying compliance to this standard can be a time-consuming, complex, and subjective procedure.

The P5000i is a digital handheld microscope that automatically inspects and certifies the end faces of fiber connectors according to industry standards and specifications. This digital microscope provides instant pass/fail results at the push of a button, eliminating subjective and time-consuming guesswork.

Compatible with multiple platforms, including CellAdvisor, Certifier, OneAdvisor, OneExpert, Optimeter, SmartClass Fiber, SmartOTDR, T-BERD/MTS, laptops, PCs, and mobile devices, the P5000i provides fast, repeatable analysis that easily integrates into existing test procedures. The world's leading manufacturers, installers, and service providers already rely on VIAVI Solutions to certify their fiber connectors. Whether testing on the production line or in the field, the P5000i gives any technician that handles fiber the same capabilities in the palm of their hand.

Eliminate Guesswork with Objective Testing

Pass or **Fail**?   **Fail:** particle inside zone A
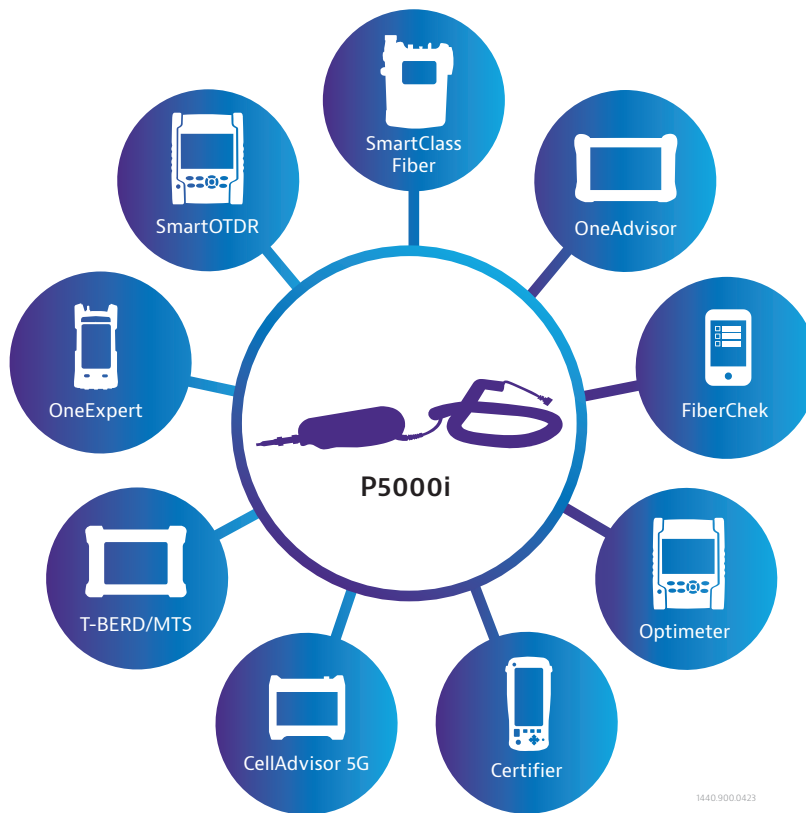

Key Benefits

- Inspect and certify fiber end-face quality at the push of a button, making your technicians instant fiber experts
- Ensure physical-layer performance by guaranteeing fiber connectivity meets industry standards
- Eliminate confusion with fast, easy, and objective testing
- Certify fiber end-face quality with your existing VIAVI test platform or mobile device
- Let your technicians get it right the first time, drive best practices, improve quality of work, and optimize workflows
- Ensure lifetime connections and protect network investments by preventing damage to fiber components and equipment

Key Features

- Connects via USB with multiple devices including VIAVI tools, laptops/PCs, and mobile devices
- Repeatable pass/fail analysis eliminates subjective guesswork from the measurement process
- User-selectable acceptance profiles allow certification to any acceptance criteria
- Compatible with FiberChekPRO™ software for analysis and reporting with laptops/PCs
- Automatic image centering ensures the fiber always appears in the center of the screen
- Detailed report generation to certify and document results
- Dual magnification (200X and 400X) functionality provides high-level and detailed inspection and analysis
- Magnification toggle button allows easy switching in both live and analysis views
- Accepts FBPT series tips for comprehensive support of connector types used in today's network

The World's Most Versatile Pass/Fail Analysis Solution

The P5000i works with VIAVI solutions that users rely on daily for essential testing. This means that users can guarantee connector compliance to industry standards with a fast, repeatable analysis that easily integrates into their existing test procedures. It easily connects with VIAVI test solutions and mobile devices via a simple USB connection.

Connect the P5000i probe microscope to multiple VIAVI instruments

The FBPP-WIFI Wireless Adapter allows you to connect your FBP-P5000i wirelessly to an Android™ or iOS device. It can also be used with Windows® to connect to a mobile device, PC, or laptop via WiFi.

Download FiberChekMOBILE to your Android device from the Google Play store.

Download FiberChekMOBILE to your iOS device from the iTunes store.

FBP-P5000i Specifications

General Technical (typical at 25°C)	
Weight	110 g (3.88 oz)
Dimensions (w × h × d)	140 x 46 x 44 mm (5.5 x 1.8 x 1.7 in)
Low mag field-of-view (FOV)	Horizontal: 740 µm Vertical: 550 µm
High mag field-of-view (FOV)	Horizontal: 370 µm Vertical: 275 µm
Live image	640 x 480 pixels at 8 fps
Connector	USB 2.0 (backwards compatible to USB 1.1)
Cord length	183 cm (6 ft)
Camera sensor	2560 x 1920, 1/2.5-in CMOS
Particle size detection	<1 µm
Light source	Blue LED, 100,000+ hour life
Lighting technique	Coaxial
Power source	USB Port
Certification	CE
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	20 to 60°C (-4 to 140°F)

FBPP-WIFI Specifications

Dimensions	218 x 50 x 131 mm (8.6 x 2.0 x 5.2 in)
Weight	272 g (9.5 oz)
Connector	USB 2.0 (Micro-B)
Power Source	Internal Li-ion Battery, USB power
Run Time	5.5 hr
Charge Time	2.5 hr (2.1 A max power source) 8 hr (500 mA max power source)
Power Supply	5 VDC, 2.1 A USB power adapter with interchangeable wall plug for EU, UK, US, and AU

Ordering Information

P5000i	
Description	**Part Number**
P5000i Digital Analysis Probe	FBP-P5000i
Kit: P5000i with 4 inspection tips (FBPT-U12M, FBPT-U25M, FBPT-LC, FBPT-SC)	FBP-SD101
Kit: P5000i with 7 inspection tips (FBPT-U12M, FBPT-U25M, FBPT-U25MA, FBPT-FC, FBPT-LC, FBPT-SC, FBPT-SC-APC)	FBP-MTS-101
Wireless Adapter	FBPP-WIFI
P5000i FiberChekMOBILE Android Activation Key	SW-FCM-A1
Included Items	
Stand-Alone Device (FBP-P5000i)	
P5000i Digital Analysis Microscope	
Soft bag for microscope and accessories	
Carrying case for tips	
Inspection tip FBPT-U25M	
QuickStart manual	

An activation key must be ordered for every P5000i microscope connected via USB to an Android mobile device. Conversion cables may be required depending upon the device.

Inspection Tips

VIAVI has over 300 tips, adapters, and guides available for inspecting different fiber optic connectors for a variety of different applications. Refer to the Fiber Inspection Tips and Adapters selection guide and Military/Aerospace Fiber Inspection Tips and Adapters selection guide for more information.

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓