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VIAVI Solutions

Data Sheet

VIAVI

P5000i Digital Analysis Microscope

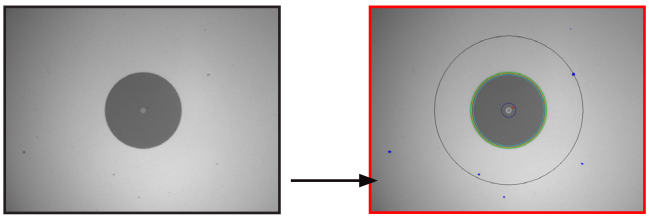
Automated Fiber Inspection and Pass/Fail Analysis

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 T-BERD®/MTS-2000/4000/5800/6000A, 8000v2, HST-3000, Certifier40G, CellAdvisor JD720C, laptops, PCs, and Android 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 Android mobile devices
- Repeatable pass/fail analysis eliminates subjective guesswork from the measurement process
- User-selectable acceptance profiles allow certification to any acceptance criteria
- Includes 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 for all 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.





Fiber test



Mobile test



Access



Enterprise test



Metro test



Mobile devices/tablets



Laptops/PCs



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.

GET IT ON Google play

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

Download on the App 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 (FOC)	Horizontal: 370 µm Vertical: 275 µm
Live image	640 x 480 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
Warranty	1 yr

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 with FiberChekPRO	FBP-P5000i
Kit: P5000i with FiberChekPro, 4 inspection tips, case	FBP-SD101
Kit: P5000i and MP-60 with FiberChekPro, 4 inspection tips, 2 UPP adapters, case	FIT-SD103
Kit: P5000i and MP-80 with FiberChekPro, 4 inspection tips, 2 UPP adapters, case	FIT-SD113
Kit: P5000i with FiberChekPro, 7 inspection tips, case	FBP-MTS-101
Activation key: P5000i Android device compatibility*	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 (patch cord: 2.5 mm)	
FiberChekPRO software installation disk	
QuickStart manual	
Kits with 4 Inspection Tips	
Bulkhead: SC, LC	
Patch cords: 2.5 mm, 1.25 mm	
Kits with 7 Inspection Tips	
Bulkhead: SC, LC, FC, SC-APC	
Patch cords: 2.5 mm, 1.25 mm, 2.5 mm APC	
Kits with an MP Series Optical Power Meter (OPM)	
MP series USB OPM	
2.5 mm UPP adapter (FITP-UPP25)	
1.25 mm UPP adapter (FITP-UPP12)	
FiberChekPRO software installation disk	
Quickstart manual	
USB cable extender	

Inspection Ports	
Viavi has over 300 tips, patch cords, and adapters available for inspecting different fiber optic connectors for a variety of different applications. This is not an all-inclusive list, but provides solutions for the most common connectors and applications. Please contact Viavi for more information.	
Tips	
Description	***Part Number***
LC-APC bulkhead (for FBP probe	FBPT-LC-APC
FC bulkhead (for FBP probe)	FBPT-FC
FC-APC bulkhead (for FBP probe)	FBPT-FC-APC
SC-APC bulkhead (for FBP probe)	FBPT-SC-APC
MTP bulkhead long reach (for FBP probe)	FBPT-MTP-L
MTP-APC polish bulkhead long reach (for FBP probe)	FBPT-MTPA-L
Patch Cords	
Universal 2.5 mm (for FBP probe)	FBPT-U25MA
Universal 1.25 mm (APC polish slip fit (for FBP probe)	FBPT-U12MA-SF
Adapters (for devices with a dedicated patch cord microscope)	
Universal 2.5 mm APC female threaded	FMAE-UAPC
LC duplex female threaded	FMAE-LC-2X
LC-APC female threaded	FMAE-LCA
MTP	FMAE-MTP
MTP APC polish	FMAE-MTPA

The activation key enables Android compatibility for both new P5000i orders and existing devices in the field. When purchased with a new product, the P5000i will ship pre-activated for Android compatibility. When purchased for activating an existing P5000i, the customer must provide the P5000i serial number with their order.

FiberChekMOBILE requires Android 4.1 operating systems or higher.

Many Android devices do not have a direct USB-A input port; connecting the P5000i (with a standard USB-A plug) may require a converter cable or hub to interface with the Android device.

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.

For more Information: go to viavisolutions.com/viavicareplan

Features

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training
BronzeCare	Technician Efficiency	Premium	✓	✓	✓

VIAVI Solutions

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To reach the VIAVI office nearest you,
visit viavisolutions.com/contacts.

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Product specifications and descriptions in this document are subject to change without notice.
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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

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We buy equipment

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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