

**Details & Specifications of 0831-8240**

**TFOCA II® Deluxe Light Source - Power Meter, Cleaning & Inspection Kit**



The SmartClass™ OLP-82P *Handheld Power Meter* is ideal for the Ground Tactical Warfighter as it is a portable and simple to use, yet is a powerful power meter with unmatched features in the TFOCA II® theater. KITCO Fiber Optics has, once again, designed a unique kit and placed all the TFOCA II® HQRCs (High Quality Reference Cables) that will interface with the tactical reels of fiber widely by the United States Army. The 0831-8240 comes with *two P5000i Microscope Inspection Probes*. This enables the Warfighter to properly test, inspect, and clean TFOCA II® (as well as other links) even if the reels are deployed (unwound) in the desert.



The SmartClass™ OLTS-85 *Handheld Light Source* is a companion product of the SmartClass™ *Handheld Power Meter*. Both portable, handheld units come with its own dedicated *P5000i Microscope Inspection Probe*, all HQRCs (High Quality Reference Cables), all necessary adapters, inspection probe tips, and all cleaning supplies. This means that the Warfighter can now complete insertion loss tests quickly, accurately, and store the results for future evaluation if so desired, even if they are miles away from each other. Not only can the Warfighter Inspect & Clean both ends in accordance with industry standards, but they can finally set up their reference cables and use a Light Source to launch the light and a Power Meter to detect accurate insertion loss readings!



The P5000i Microscope Inspection Probe :

**See VIAVI Specification Sheet Below**



**HQJ Definition:** *An HQJ is a High Quality Jumper cable. HQJ's can be used as an OTDR, launch or receive cable, for use with a Light Source and Power Meter, and as "pigtailed". HQJ's are manufactured (i.e., polished) in such a way that when used in testing, it will yield consistent repeatable results. Each end-face of an HQJ is polished as geometrically identical as possible. For the 2.5mm ferrules, the Zirconia's ceramic dome has a radius that is polished to meet the MIL-STD-2042 (SH) specification.*



Cleaning Supplies, P5000i Microscope Inspection Probe Tips, and Transition Adapters, couplings, (each set in plastic acrylic box) are placed in a separate small carrying pouch to allow one Warfighter to go to the opposite end of the reel of TFOCA II® fiber (or other end of fiber link) to properly test using two HQRCs.

# VIAVI

## P5000i Digital Analysis Microscope

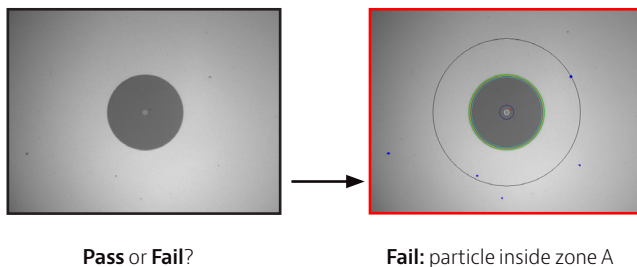
### Automated Fiber Inspection and Pass/Fail Analysis

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



#### 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.



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 (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	3 year

## 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

VIAMI 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 VIAMI 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.

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](https://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	✓	✓	✓	✓*	✓	✓	✓



Contact Us **+1 844 GO VIAVI**  
(+1 844 468 4284)

To reach the VIAVI office nearest you, visit [viavisolutions.com/contact](https://viavisolutions.com/contact)

© 2022 VIAVI Solutions Inc. Product specifications and descriptions in this document are subject to change without notice. Patented as described at [viavisolutions.com/patents](https://viavisolutions.com/patents) p5000i-ds-fit-tm-ae 30168437 905 0322