

Brochure

VIAVI

OLP-37XV2

SmartPocket™ V2 Selective PON Power Meter

VIAVI Solutions new OLP-37XV2 Selective PON Power Meter quickly, easily, and conveniently measures power levels and loss in fiber/FTTx networks and fits perfectly in your pocket. Easy-to-use for technicians at any skill level, the SmartPocket V2 offers a dedicated and cost-optimized solution for testing and troubleshooting fiber/PON services in the field. The smart and rugged OLP-37XV2 also includes unprecedented data storage capacity supported by result downloads to a PC or upload to the cloud.



Key Benefits

- Ready when you need it – ultra-high reliability and high availability
 - Dependable, German design
 - Designed with outdoor environment in mind
 - Over 70 hours continuous use
 - Instant On – no boot time
- Easy to use
 - High-Visibility backlit graphical display with context-sensitive softkey
 - Clear pass/fail information
 - Automatic upload of results via VIAVI Mobile Tech application
- Supports co-existence of G/E-PON and XGS-PON/10G-EPON services on the same PON

Key Features

- Single test port connection with SC adapter for dual wavelength measurement
- Selective power level measurements for both G/E-PON and XGS-PON/10G-EPON services
- Storage for > 1000 test results and PC download capability
- Bluetooth low energy connectivity to the VIAVI Mobile Tech App
- 3-year warranty and recalibration period

Applications

- Measuring optical power levels and link insertion loss for both G/E-PON and XGS-PON/10G-EPON networks
- Multi-service PON/FTTH deployment and installs
- FTTH (fiber to the antenna) for 5G

Features and benefits

Ultra-reliable German design

Built for rugged, outdoor use
Still fits in your pocket!

Improved protection cap can be fully opened

Huge storage capacity

> 1000 test results

Softkey flexibility

Multiple power options (4-way)

2x Alkaline AA, 2x NiMH AA rechargeable,
AC power adapter, USB

Bluetooth low energy connectivity to the VIAVI Mobile Tech App

New high-visibility graphical display with backlight

Innovative low-power design exceptionally long battery life over 70 hrs. continuous operation

USB-C interface powering, offload of results, connection to PC



Instant On – Easy to use – Good to go in no time

Instant on means SmartPocket V2 is ready as soon as you are, no waiting for an instrument to boot up, it is there the instant you need it. A high visibility back-lit display makes SmartPocket V2 usable in all lighting conditions, indoors and outdoors, and combined with the super simple user navigation means you can close out more jobs per day.

Filtered Measurements and Single Test Port

Filtered measurements are necessary when there is more than one service wavelength present on a fiber, broadband power meters are simply not suitable in such conditions as they will combine and sum the power from multiple wavelengths providing incorrect measurement results. In addition, broadband power meters do not distinguish or identify the wavelength being measured so you may have good power levels but cannot tell if it is a G/E-PON or XGS-PON/10G-EPON service which could lead to the incorrect ONU/ONT installation or replacements and service activation delays.

The single test port OLP-37XV2 allows for simultaneous filtered measurement of both G/E-PON (1490 nm) and XGS-PON/10G-EPON (1577 nm) wavelengths with a single fiber connection, an ideal solution for networks delivering services from two different providers over the same PON in a coexistence model, and for installers who must move regularly between G/E-PON and XGS-PON/10G-EPON networks and future proofed for service providers delivering G/E-PON today and considering upgrading/migrating to XGS-PON/10G-EPON.

Superior Battery Life and powering options

Taking measurements and performing the certification of a fiber install is the final step to closing out tasks while you are still on-site. Without test equipment powered and ready to go you run the risk of missing a deadline or having to make a site re-visit to finish a job. To avoid this the SmartPocket V2 boasts an industry leading 70 hours of continuous operation and supports 3-way powering with field replaceable NiMH rechargeable, off the shelf alkaline batteries and AC powering. Meaning that you will never be short of power for long or need to wait for unit batteries to recharge.

Low Cost of Ownership

3 years warranty and calibration interval means no extra annual charges and your equipment will meet requirements for reporting and certifying (i.e. to be in calibration)

Test and Report Field Measurements

VIAVI Smart Reporter reporting software lets users quickly and efficiently download test results data from the power meter's memory with just a few clicks. After it is downloaded, the software reporting functions let users generate and customize professional certification reports.

Connected for superior workflow and reporting

In today's world it is essential for techs and their instruments to be connected, not only to reduce manual effort and risk of mistakes but also to deliver seamless reporting. SmartPocket V2 is integrated with the VIAVI Mobile Tech App to ensure optimal workflow freeing up techs and contractors to get on with the assigned jobs rather than being slowed down with report generation and submission.

Mobile Tech App

Operate Instruments and Execute App to App Sharing with a Mobile Device

- Synchronization to StrataSync – firmware updates and asset management
- Mobile App – IOS and Android
- App to App sharing to any compatible App
- Test device and mobile device file management
- Enriches test results with workflow audit details –geolocation data, time stamp, and multimedia attachments (pictures, signature capture)

VIAVI Report date: Thursday, January 14, 2021

Opticheck Report - Sample 01

Technician Information

Company Name: Technician AG
Technician Name: Mr. Technician
Address: Technician Street
Postal Code: 72764
City: Reutlingen
State: Baden-Württemberg
Country: Germany
Phone: 0163438574
Email: technician@office.com

Device Type:	OLP3SSC/14	Calibration Date:	2021/JAN/12
Serial Number:	A-0443	Software Version:	2333V01.00.00

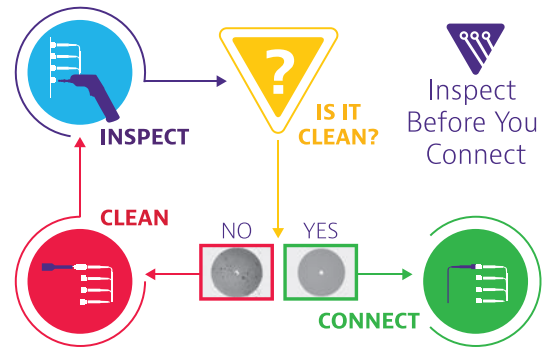
Measurement results

Fiber ID	λ [nm]	Power [dBm]	Power [μWatt]	Power [dB]	Reference [dBm]
2021-01-14T15:42:46	1310	-20.52			
2021-01-14T15:43:46	1310	-20.82			
2021-01-14T15:43:59	1310		11.22		
2021-01-14T15:45:01	1490			-19.80	0.00
Room-03, Fiber-001	1490			36.15	-56.37
Room-03, Fiber-002	1550	-22.86			
Room-03, Fiber-003	1550	-23.09			



Inspect Before You Connect (IBYC)

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.



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	✓	✓	✓	✓*	✓	✓	✓

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Specifications for SmartPocket V2™

Light Sources

	OLS-34V2	OLS-35V2	OLS-36V2		OLS-38V2
Wavelengths	850, 1300 nm	1310, 1550 nm	850, 1300 nm	1310, 1550 nm	1310, 1550, 1625 nm
Wavelength Accuracy	- 20 / + 40 nm	± 20 nm	-20 / + 40 nm	± 20 nm	± 20 nm
FWHM Spectral Width	< 170 nm	< 5 nm	< 170 nm	< 5 nm	< 5 nm
Output Level	Typ. - 20 dBm	Typ. -3 dBm	Typ. -20 dBm	Typ. -3 dBm	Typ. - 6 dBm
Short Term Stability	± 0.02 dB within 15 min	± 0.02 dB within 15 min	± 0.02 dB within 15 min		± 0.02 dB within 15 min
Long Term Stability	± 0.05 dB within 8 hrs.	± 0.05 dB within 8 hrs.	± 0.05 dB within 8 hrs.		± 0.05 dB within 8 hrs.

Power Meters

	OLP-35V2	OLP-35SC	OLP-38V2	OLP-37XV2
				<i>G-PON, XGS-PON</i>
Photo Diode	InGaAs	InGaAs	InGaAs (coated)	InGaAs
Wavelength Range	800...1650 nm	800...1650 nm	800...1650 nm	1270...1500 nm, 1540...1650 nm
Display Range	800...1650 nm, step size 1 nm	800...1650 nm, step size 1 nm	800...1650 nm, step size 1 nm	1490 nm, 1577 nm
Resolution	0.01 dB, 0.001 μW	0.01 dB, 0.001 μW	0.01 dB, 0.001 μW	0.01 dB, 0.001 μW
Power Range	-65...+10 dBm	-65...+10 dBm	-50...+26 dBm	-45...+13 dBm
max. Power Level	+16 dBm	+16 dBm	+27 dBm	+15 dBm
Measurement Uncertainty	± 0.2 dB (± 5%) at ref. conditions	± 0.2 dB (± 5%) at ref. conditions	± 0.2 dB (± 5%)*	± 0.5 dB (± 12%) at ref. conditions
Number of Calibrated Wavelengths	8 (850, 980, 1310, 1490, 1550, 1577, 1625, 1650 nm)	8 (850, 980, 1310, 1490, 1550, 1577, 1625, 1650 nm)	8 (850, 980, 1310, 1490, 1550, 1577, 1625, 1650 nm)	2 (1490, 1577 nm)
Tone Detection	270 Hz, 330 Hz, 1 kHz, 2 kHz	270 Hz, 330 Hz, 1 kHz, 2 kHz	270 Hz, 330 Hz, 1 kHz, 2 kHz	270 Hz, 330 Hz, 1 kHz, 2 kHz

* When used with SC/PC connectors

Kits

	OMK-35V2	OMK-36V2	OMK-38V2
Light Source Wavelengths	1310, 1550 nm	850, 1300, 1310, 1550 nm	1310, 1550 nm
Light Source Output Power	Typ. -3 dBm	Typ. -20 dBm / -3 dBm	Typ. -3 dBm
Optical Power Meter Power Range	-65 to +10 dBm	-65 to +10 dBm	-50 to +26 dBm

General Information

General (typical at 25°C)

Storage and Interface

Data storage	1000 results
Data download capability	USB-C for PC transfer

Power Supply

Dry batteries	2x Mignon (AA) Alkaline 1.5 V
Rechargeable batteries	2x Mignon (AA) NiMH 1.2 V
AC operation	via USB-C and Universal Power Adapter
Operating time	70 hrs. (OLP) and 50 hrs. (OLS) with the dry batteries

Environmental Conditions

EMI/ESD	CE compliant
Recommended calibration interval	3 years
Operating temperature	-10 to +55°C (14 to 131°F)
Storage temperature	-20 to +70°C (-4 to +158°F)
Dimensions (H x W x D)	30 x 80 x 150 mm (1.2 x 3.1 x 5.9 in)
Weight	200 g (0.45 lb)

Ordering Information

Description	Catalog Number
OLP-35V2 - Basic PM UPP Adapter; calibrated at 850/980/1310/1490/1550/1650 with BT	OLP-35V2
OLP-35SC - Basic PM with fixed SC Adp; calib. at 850/980/1310/1490/1550/1625 with BT	OLP-35SC
OLP-38V2 - High Power PM UPP Adapter; calib. at 850/980/1310/1550/1625 with BT	OLP-38V2
OLP-37XV2 - G/XGS-PON Selective PM, single SC/APC, 1490/1577 with BT	OLP-37XV2
OLS-34V2 - LED Source 850/1300nm MM50/125 SC mounted FC enclosed	OLS-34V
OLS-35V2 - SM Source 1310/1550 SC mounted FC enclosed	OLS-35V2
OLS-36V2 - Quad Source SM/MM 850/1300 + 1310/1550 SC mounted FC enclosed	OLS-36V2
OLS-38V2 - SM Source 1310/1550/1625nm SC mounted FC enclosed	OLS-38V2
OMK-35V2 - Service Provider Plus - SM Test Kit	OMK-35V2
OMK-36V2 - Enterprise Plus - Quad SM/MM Test Kit	OMK-36V2
OMK-38V2 - Service Provider High-Power Plus - SM Test Kit	OMK-38V2

Each device includes 2x AA alkaline batteries, a quick start guide, neck strap and a belt bag. The Power Meters also include a USB connection cable type C.

Optional/Configurable

Description	Part Number
Calibration Report OLP-35/38	2302/90.02
Calibration Report OLS-35/36	2303/90.01
SmartClass Fiber OPM UPP Adapter 1.25 mm	VPP-UPP12
SmartClass Fiber OPM UPP Adapter 2.5 mm	VPP-UPP25
Switchable Optical Adapter FC/PC FC/APC	2155/00.05
Switchable Optical Adapter SC/PC	2155/00.06
Switchable Optical Adapter LC/PC LC/APC	2155/00.07
Switchable Optical Adapter SC/APC	2155/00.26
Switchable Optical Adapter ST/PC	2155/00.32
OCK-10 Cleaning Kit complete	2229/90.21
USB 2.0 Type A to Type C Cable	22122619
SM Cable 2x M SC-PC SC-PC 2000 mm	K3110
SM Cable 2x M FC-PC FC-PC 2000 mm	K3112
SM Cable 2x M FC-PC E-2000 APC 2000 mm	K3135
SM Cable 2x M FC-PC SC-PC 2000 mm	K3139
SM Cable 2x M SC-PC SC-PC 3000 mm	K3152
SM Cable 2x M DIN47256-APC8 SC-APC9 3000 mm	K3155
SM Cable 2x M DIN47256-APC8 SC-PC 3000 mm	K3156
SM Cable 2x M FC-PC LC-PC 2000 mm	K3140
Alkaline batteries Mignon AA-Size LR6	2229/90.01
Rechargeable batteries AA; NiMH; 1.2V; 2.6 / 2.7Ah	2237/90.02
Universal AC Power Adapter	2302/90.01
SmartReporter	free download from http://www.updatemyunit.net/

For More Information:



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