

OLP-35V2, OLP-35SC and OLP-38V2

SmartPocket V2 Broadband Power Meters

VIAVI Solutions new OLP-3xV2 Broadband Power Meters quickly, easily, and conveniently measure optical power levels and loss in fiber networks and fit perfectly in your pocket. Easy-to-use for technicians at any skill level SmartPocket V2 Broadband Power Meters (PM) complement VIAVI optical light sources (OLS) for insertion loss and continuity testing in both multimode and single-mode networks in all environments. They offer a dedicated and cost-optimized solution for testing and troubleshooting fiber in the field. The smart and rugged OLP-3xV2 also includes unprecedented data storage capacity supported by result downloads to a PC or upload to the cloud.



OLP-35V2



OLP-35SC



OLP-38V2



BENEFITS

- Ready when you need it - ultra-high reliability and high availability
 - Dependable, German design
 - Designed with outdoor environment in mind
 - Low power consumption for extended continuous use
 - Instant On – no boot time
- Easy to use
 - High-Visibility backlit graphical display with context-sensitive softkey
 - No setup 'OptiChk' measurement mode
 - Auto-λ, Multi-λ mode
 - Automatic upload of results via VIAVI Mobile Tech application

FEATURES

- 1 nm incremental wavelength settings
- Universal optical interface supports all 2.5 mm with option for 1.25 mm connectors
- Fiber Tracing – detecting optical light source tone(s)
- Storage for > 1000 test results and PC download capability
- Bluetooth low energy connectivity to the VIAVI Mobile Tech App
- 3-year recalibration period

APPLICATIONS

- Measuring optical power levels and link insertion loss for both Single mode and Multimode networks
- Network Build and Maintenance for
 - Enterprise/LAN
 - Access and Metro (LAN/WAN)
 - FTTx (e.g. Home/Antenna)
 - Standard and high-power level tests

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
45 hrs. continuous operation

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



Products:

- The OLP-35V2 is the optimal device for standard telecommunication networks and multimode or single mode applications
- The OLP-35SC provides the same capabilities as the OLP-35V2 and comes with a fixed SC adapter
- The OLP-38V2 is a higher-power (up to +26 dBm) version for CATV HFC (with analog RF transmission) or amplified DWDM systems applications

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's 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 plus universal optical connector test port with OptiChek mode means you can close out more jobs per day.

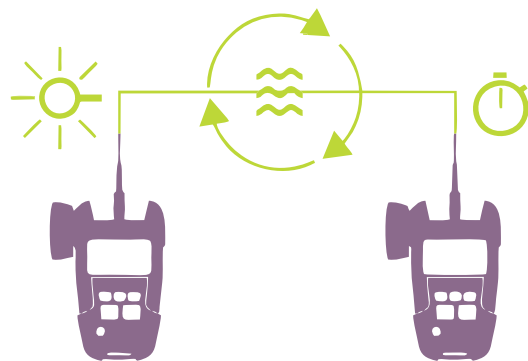
OptiChek Mode

A broadband power meter that does not require wavelength configuration! Ideal for situations where you do not know the exact service wavelength in use or for a basic quick check to determine if a fiber is lit and power level is in the predicted/expected range. Just turn it on, connect, and take the measurement.*

* Increased uncertainty (to approximately +/- 1dB) is traded for speed and simplicity when you just want a quick confirmation of power with no thresholding, for Singlemode only: (1260nm to 1650nm)

Auto-λ, Multi-λ Mode

When SmartPocket V2 Broadband PMs are used in combination with SmartPocket V2 OLS, the new super-fast Auto-λ mode reduces the time to measure up to 3 wavelengths on the same fiber to less than a second. Delivering lightning-fast, error free, multi-λ loss testing saves time when testing and becomes critical to getting jobs finished and links delivered on time especially when working in high fiber-count environments. Plus, with a single button push results are saved and ready for upload to the cloud via the Mobile Tech App



Robust and ready for field use

One of the key issues for optical field equipment is the risk of damage to the optical test port, this port has to be free of dirt and damage (e.g. scratches) in order to perform as required (according to specs). All it takes is a small piece of dust to be accidentally trapped and crushed when a fiber connection is made to damage the test port. The non-contact and easy clean approach with the SmartPocket V2 eliminates the risk of accidental test port damage and the integrated rubber 'bumpers' and test port cap make it ready for use in the real world and able to survive the odd bump or knock.

Superior Battery Life and powering options

Taking measurements and performing that 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 offers a low power consumption design for extended continuous use and supports 4 way powering with field replaceable NiMH rechargeable, off the shelf alkaline batteries, AC powering and power over USB. Meaning that you will never be short of power for long or have to wait for unit batteries to recharge.

Low Cost of Ownership

3 years 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's downloaded, the software reporting functions let users generate and customize professional certification reports.

VIAVIReport 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:	OLP35SC/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			

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 their jobs rather than being slowed down with report generation and submission.

Job Manager

- Easily create job templates via Mobile Tech App
- Associate tests to specific workorder or job number
- Sequence of individual test tasks grouped together in a single job
- No need to type in settings or labels on the job site
- No more missed or invalid test results; launch, test and auto upload of results

Mobile Tech App

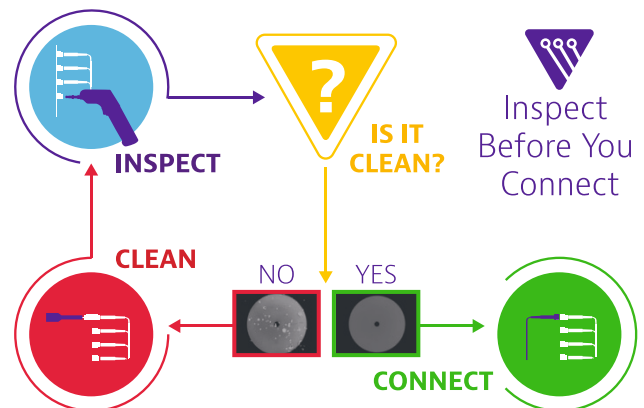
- Mobile App available for iOS and Android
- Independent guest account and integrated StrataSync™ account operation
- Create and push job with label list to instrument, pull test results back to app
- Enriches test results with workflow audit details, geolocation data and time stamp
- Synchronization to StrataSync for results upload, firmware updates, asset and option management

Job Manager and Mobile Tech App are part of the StrataSync Test Process Automation Suite, a solution that empowers you to deploy test plan procedures to technicians to simplify and automate your network tests. Test Accurately in Half the Time to Boost Productivity



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.



Specifications for SmartPocket V2

Power Meters and selective PON Power Meter

	OLP-35V2	OLP-35SC	OLP-38V2	OLP-37XV2
Photo Diode	InGaAs	InGaAs	InGaAs (coated)	InGaAs
Spectral Range	Broadband (800...1650 nm)			Passband (1260...1500 nm, 1540...1650 nm)
Resolution	0.01 dB, 0.001 μ W			
Measurement Range for Power Level	-65...+10 dBm		-50...+26 dBm	-45...+13 dBm
Max. Power Level (before damage)	+16 dBm		+27 dBm	+15 dBm
Measurement Uncertainty	Expert Mode: ± 0.2 dB / ± 5 % (intrinsic) ¹ OptiChek Mode: ± 0.8 dB / ± 5 % (intrinsic) ¹			
	850, 980 nm: ± 0.35 dB 1300, 1310, 1550 nm: ± 0.25 dB 1490, 1625 nm: ± 0.35 dB 1650 nm: ± 0.45 dB		850, 980 nm: ± 0.60 dB 1300, 1310, 1550, 1625 nm: ± 0.55 dB 1490 nm: ± 0.65 dB	1490 nm: ± 0.5 dB / ± 12 % ² 1577 nm: ± 0.5 dB / ± 12 % ² Broadband: ± 0.5 dB / ± 5 % ^{2,3}
Linearity	± 0.06 dB ⁴			
Number of Calibrated Wavelengths	8 (850, 980, 1310, 1490, 1550, 1577, 1625, 1650 nm)			2 (1490, 1577 nm)
Tone Detection	CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz, 5, 6			
Auto functions	Auto- λ / Multi- λ 6			
Optical Connectors	1x UPP 2.5 mm	1x SC/PC	1x UPP 2.5 mm	1x SC/APC

¹ under reference conditions: -11 dBm (CW), 1310 nm ± 1 nm, 23 °C ± 3 K, 45 to 75 % relative humidity, SM test fiber (Single Mode, 9 μ m core, 8° APC), when used with SC/PC connectors – for OLP-38V2: Expert Mode: ± 0.5 dB

² under reference conditions: -2 dBm (CW), nominal wavelength, 23 °C ± 3 K, 45 to 75 % relative humidity, SM test fiber (Single Mode, 9 μ m core, 8° APC), when used with SC/APC connectors

³ in Broadband Mode (activated SW option required)

⁴ under the following conditions: -50...+ 5 dBm, 0...+45 °C – for OLP-35V2: when used at 850 nm the following applies: ± 0.15 dB – for OLP37XV2: in Broadband Mode (activated SW option required)

⁵ for OLP-35V2/-38V2: received optical power level $\geq$ -50 dBm – for OLP-35SC: optical power level $\geq$ -35 dBm – for OLP-37XV2: in Broadband Mode (activated SW option required)

⁶ when used with VIAVI Light Source and received optical power level $>$ -50 dBm – for OLP-37XV2: in Broadband Mode (activated SW option required)

TruePON Testers

	OLP-39G	OLP-39X
Photo Diode	InGaAs	
Spectral Range	Passband (1480...1500 nm)	Passband (1480...1500 nm, 1575...1580 nm)
Wavelength Setting	1490 nm 1490 nm,	1577 nm
Resolution	0.01 dB, 0.001 μ W	
Measurement Range for Power Level	-35...+10 dBm	
Measurement Range for PON-ID	GPON: -30...0 dBm	GPON: -30...0 dBm XGS-PON: -25...0 dBm
Max. Power Level (before damage)	+ 15 dBm	
Measurement Uncertainty	1490 nm: ± 0.5 dB / ± 12 % ¹	1490 nm: ± 0.5 dB / ± 12 % ¹ 1577 nm: ± 0.5 dB / ± 12 % ¹
Number of Calibrated Wavelengths	2 (1490, 1577 nm)	
Optical Connectors	1x SC/APC	1x SC/APC

¹ under reference conditions: -2 dBm (CW), nominal wavelength, 23 °C $\pm$ 3 K, 45 to 75 % relative humidity, SM test fiber (Single Mode, 9 μ m core, 8° APC), when used with SC/APC 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 (typical)	-3 dBm	-20 dBm / -3 dBm	-3 dBm
Optical Power Meter Power Rang	-65 to +10 dBm	-65 to +10 dBm	-50 to +26 dBm

GENERAL INFORMATION

General (typical at 25°C)	
Data storage	1000 results
Data download capability	USB-C for PC/Laptop Transfer or BLE to StrataSync via MTA
Power Supply	
Batteries	2x Mignon (AA) Size
AC operation	Via USB-C and Universal Power Adapter (Pmax.: 2.5 W)
Operating Time	45 hrs. (OLP-35V2/-35SC/-38V2, OLP-37XV2 and OLP-39G/-39X in PON Mode), 15 hrs. (OLP-39G/-39X in TruePON or ONT Detection Mode)
Environmental Conditions	
EMI/ESD	CE compliant
Electromagnetic Compatibility	EN 61326-1:2013
Device Safety	EN 61010-1:2010/A1:2019
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 (w/o Batteries)	200 g (0.45 lb)
Max. Altitude	2,000 m (6,500 ft)
Pollution Degree	2
Ingress Protection	Ip44
Humidity	15 to 85 % (Relative) up to +31 °C 20 g/m3 (Absolute) > +31 °C occasional condensation is tolerable as a limit condition

ORDERING INFORMATION

Description	Catalog Number
OLP-35V2 – Broadband Power Meter with UPP 2.5 mm mounted	OLP-35V2
OLP-35SC – Broadband Power Meter with fixed SC Adapter FC enclosed	OLP-35SC
OLP-38V2 – High Power Broadband Power Meter UPP 2.5 mm mounted	OLP-38V2
Power Meters include: instrument, belt bag, neck strap, quick start guide, safety instructions, alkaline batteries, USB cable	
Selective PON Power Meter	
OLP-37XV2 – Selective PON Power Meter SC mounted FC enclosed	OLP-37XV2
Broadband SW option for OLP-37XV2 via SmartReporter	2335/94.01G
Broadband SW option for OLP-37XV2 via StrataSync and Mobile Tech App (MTA) – requires StrataSync account	2335/94.01S
OLP-37XV2 and Broadband SW option (already installed)	OLP-37XV2-INCL-BB
Selective PON Power Meter includes: instrument, switchable adapter, belt bag, neck strap, quick start guide, safety instructions, alkaline batteries, USB cable	
TruePON Tester	
OLP-39G – TruePON Tester Terminate Mode GPON SC mounted FC enclosed	OLP-39G
OLP-39X – TruePON Tester Terminate Mode GPON and XGS-PON SC mounted FC enclosed	OLP-39X
SW Upgrade OLP-39G to OLP-39X via SmartReporter	2336/94.01G
SW Upgrade OLP-39G to OLP-39X via StrataSync and Mobile Tech App (MTA) – requires StrataSync account	2336/94.01S
ONT detection SW option for OLP-39G/X via SmartReporter	2336/94.02G
ONT detection SW option for OLP-39G/X via StrataSync and Mobile Tech App (MTA) – requires StrataSync account	2336/94.02S
OLP-39G ONT Detection Kit	OLP-39G-ONT-KIT
OLP-39X ONT Detection Kit	OLP-39X-ONT-KIT
TruePON Tester include: instrument, switchable adapter, belt bag, neck strap, quick start guide, safety instructions, alkaline batteries, USB cable ONT Detection Kits include: TruePON Tester content, ONT Detection SW option (already installed), Battery Extension (w/o Power Bank), Coupler	
Optical Measurement Kits for Loss Testing	
OMK-35V2 – SM Test Kit with OLP-35V2	OMK-35V2
OMK-36V2 – SM+MM Test Kit with OLP-35V2	OMK-36V2
OMK-38V2 – SM Test Kit with OLP-38V2	OMK-38V2
Kits include: instruments (OLS and OLP), switchable adapter, soft bag for 2 units, neck straps, quick start guide, safety instructions, alkaline batteries, USB cable	

Optional/Configurable

Description	Catalog Number
Calibration Report Power Meters (OLP-35V2/-35SC/-38V) and OLP-37XV2	2302/90.02
Calibration Report TruePON Testers (OLP-39G and OLP-39X)	2302/90.04
UPP 1.25 mm for Power Meters (not for OLP-35SC)	VPP-UPP12
UPP 2.5 mm for Power Meters (not for OLP-35SC)	VPP-UPP25
Switchable Adapter FC/PC FC/APC for Light Sources and OLP-37XV2	2155/00.05
Switchable Adapter SC/APC Spare for OLP-37XV2	2155/00.26
Battery Extension (w/o Power Bank) for OLP-39G/-39X	2302/90.05
OCK-10 Cleaning Kit complete	2229/90.21
USB 2.0 Type A to Type C Cable	22122619
2x Alkaline Batteries Mignon AA-Size LR6	2229/90.01
2x Rechargeable batteries AA; NiMH; 1.2V; 2.6 / 2.7Ah (not for OLP-39G/-39X)	2237/90.02
Universal AC Power Adapter	2302/90.01