SAVITRI
TELECOM SERVICES

OMK-35V2, OMK-38V2 and OMK-36V2

SmartPocket V2 Optical Test Kits

The VIAVI SmartPocket V2 Optical Test Kits (OMK-3xV2) are the new generation of pocket-sized and rugged instruments for installing and maintaining singlemode (SM) and multimode (MM) fiber optic networks. All test kits are equipped with an optical power meter and a dual or quad-wavelength optical light source dedicated to power level, insertion loss measurements, and continuity checks.

A lightweight, shock-resistant splash-proof design and an extended operating time make OMK-3xV2 test kits ideal solutions for field use. A switchable adapter system on the light source with a universal push pull (UPP) adapter on the power meter that handles all 2.5 mm connectors (1.25 mm as optional accessory) make OMK-3xV2 test kit ready for every connector type in the field.

OMK-36V2

OMK-35V2

KEY 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 'OptiChek' measurement mode
  - Fast Auto-λ, Multi-λ mode (~ 1 sec)
  - Clear pass/fail information
  - Automatic upload of results via VIAVI Mobile Tech application

KEY FEATURES

- Broadband power meter with Dual SM or Quad SM/MM sources
- 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 warranty and recalibration period

KEY APPLICATIONS

- Measuring optical power levels and link insertion loss for both SM and MM networks
- Network Build and Maintenance for

  - Enterprise/LAN
  - Access and Metro (LAN/WAN)
  - FTTx (e.g. Home/Antenna)

- Standard and high-power level tests for use in telecom, CATV, and military applications build

Kits:

- The OMK-35 V2 is a SM kit with an OLS-35V2 and an OLP-35V2 for Telecom applications.

- The OMK-38 V2 is a high power SM kit with an OLS-35V2 and an OLP-38V2 for CATV and amplified DWDM applications up to +26 dBm.

- The OMK-36V2 is a quad SM/MM kit with an OLS-36V2 and an OLP-35V2 for Enterprise LAN/WAN applications.

All Optical Test Kits include accessories: soft case, neck streps, bag, dry AA-batteries, universal AC power adapter, quick start guide, switchable optical adapter FC.

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 Auto-λ, Multi-λ and OptiChek modes means you can close out more jobs per day
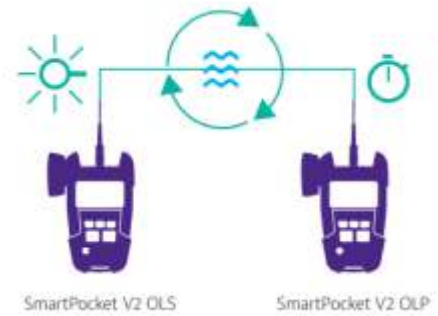
OptiChek Mode

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.

SmartPocket V2 OLS   SmartPocket V2 OLP

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 of dirt 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 power meters eliminates the risk of accidental test port damage. All SmartPocket V2 instruments come with integrated rubber 'bumpers' and recessed test port with a protective cap making 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 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's downloaded, the software reporting functions let users generate and customize professional certification reports.

VIAVI

Report date: Thursday, January 14, 2021

Optichek 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 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.

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 StrataSyncTM 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

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 (typical)	Typ. - 20 dBm	-3 dBm	-20 dBm	-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 G-PON, XGS-PON
Photo Diode	InGaAs	InGaAs	InGaAs (coated)	InGaAs
Spectral Range	Broadband (800...1650 nm)			Passband (1270...1500 nm, 1540...1650 nm)
Wavelength Setting	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
Auto functions[2]	Auto-λ / Multi-λ			Auto-λ / Multi-λ[3]

* When used with SC/PC connectors
[2] When used with VIAVI light sources
[3] In Broadband mode

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 µW	
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
Maximum Power Level	+ 20 dBm (continuously) + 26 dBm (< 30 min)	
Measurement Uncertainty	± 0.5 dB (± 12%) at ref. conditions	
Number of Calibrated Wavelengths	2 (1490, 1577 nm)	

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 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	45 hrs. (OLP-35V2/-35SC/-38V2 and OLP-37XV2), 15 hrs. (OLP-39 versions) and 25 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 - Broadband Power Meter with UPP Adapter	OLP-35V2
OLP-35SC - Broadband Power Meter with fixed SC Adapter	OLP-35SC
OLP-37XV2 - Selective PON Power Meter SC mounted FC enclosed	OLP-37XV2
OLP-37XV2 and Broadband SW option (already installed)	OLP-37XV2-INCL-BB
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-38V2 - High Power Broadband Power Meter with UPP Adapter	OLP-38V2
OLP-39G - TruePON Tester Terminate Mode GPON	OLP-39G
OLP-39X - TruePON Tester Terminate Mode GPON and XGS-PON	OLP-39X
SW Upgrade OLP-39G to OLP-39X	2336/94.01
OLS-34V2 - MM Source 850/1300 nm SC mounted FC enclosed	OLS-34V
OLS-35V2 - SM Source 1310/1550 nm SC mounted FC enclosed	OLS-35V2
OLS-36V2 - SM+MM Quad Source 850/1300/1310/1550 nm SC mounted FC enclosed	OLS-36V2
OLS-38V2 - SM Source 1310/1550/1625 nm SC mounted FC enclosed	OLS-38V2
OMK-35V2 - SM Test Kit with OLP-35V2 and OLS-35V2	OMK-35V2
OMK-36V2 - SM+MM Test Kit with OLP-35V2 and OLS-36V2	OMK-36V2
OMK-38V2 - High Power SM Test Kit with OLP-38V2 and OLS-35V2	OMK-38V2

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

OPTIONAL/CONFIGURABLE

Description	Part Number
Calibration Report Power Meters (OLP-35V2/-35SC/-38V) and OLP-37XV2	2302/90.02
Calibration Report Light Sources (OLS-34V2/-35V2/-36V2/-38V2)	2303/90.01
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/PC for Spare Light Sources	2155/00.06
Switchable Adapter LC/PC LC/APC for Light Sources and OLP-37XV2	2155/00.07
Switchable Adapter SC/APC Spare for OLP-37XV2	2155/00.26
Switchable Adapter ST/PC for Light Sources	2155/00.32
OCK-10 Cleaning Kit complete	2229/90.21
USB 2.0 Type A to Type C Cable	22122619
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/

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