

# VIAVI

## 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.



### 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

### 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

### 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 straps, 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- $\lambda$ , Multi- $\lambda$  and OptiChek modes means you can close out more jobs per day.

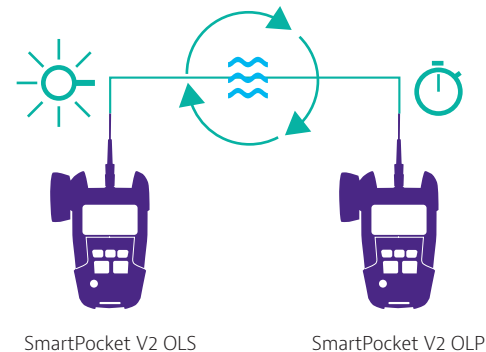
### **OptiChek Mode**

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.



## 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 or 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 boasts an industry leading 70 hours of continuous operation for OPM (50 hours for OLS) 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 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

VIAMI 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.

Report date: Thursday, January 14, 2021

### Optictek Report - Sample 01

**Technician Information**  
Company Name: Technician AG  
Technician Name: Mr. Technician  
Address: Technician Street  
Postal Code: 72764  
City: Rastatt  
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 [pWatts]	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
Room03, Fiber-001	1490			36.15	-56.37
Room03, Fiber-002	1550	-22.86			
Room03, 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 the assigned jobs rather than being slowed down with report generation and submission.

### Mobile Tech App

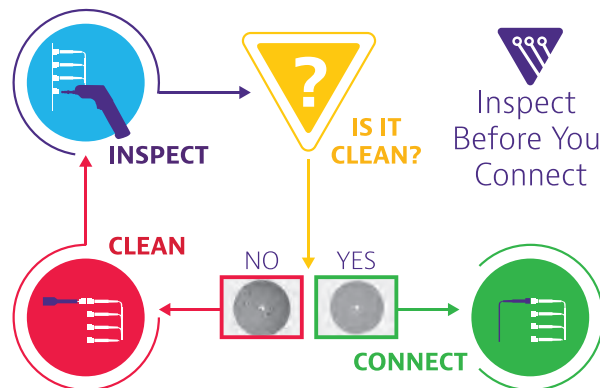
Operate Instruments and Execute App to App Sharing with a Mobile Device

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



### 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.

Contact your local representative for more information on VIAVI Care Support Plan options 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	✓	✓	✓	✓*	✓	✓	✓

# VIAVI

## 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)	
<b>Storage and Interface</b>	
Data storage	1000 results
Data download capability	USB-C for PC transfer
<b>Power Supply</b>	
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
<b>Environmental Conditions</b>	
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 <a href="http://www.updatemyunit.net/">http://www.updatemyunit.net/</a>