

OLS-34V2, OLS-35V2, OLS-36V2 and OLS-38V2

SmartPocket V2 Optical Light Sources



The VIAVI OLS-3xV2 series consists of small and rugged optical light sources (OLS) for quick, easy, and convenient field insertion loss measurement and continuity checks. SmartPocket V2 OLS are ideal tools to complement the OLP-3xV2 optical power meters for insertion loss and continuity testing in both multimode and single mode optical fiber networks. They offer a dedicated and cost-optimized solution for testing and troubleshooting optical fibers in the field. All SmartPocket V2 sources are equipped with Auto-λ and Multi-λ functions compatible with any SmartPocket V2 power meter. This one button operation provides a quick, simple, and error-free testing solution, which makes SmartPocket V2 OLS the ideal tools for daily field testing.



OLS-35V2



OLS-36V2

PRODUCTS:

- The OLS-34V2 covers all standard dual wavelength multimode telecommunication network applications with 850 / 1300 nm
- The OLS-35V2 covers all standard dual wavelength single mode telecommunication network applications with 1310 / 1550 nm
- The OLS-36V2 quad-wavelength solution covers both multimode and single mode wavelengths (850 / 1300 and 1310 / 1550 nm)
- The OLS-38V2 covers all standard tri wavelength single mode telecommunication network applications with 1310 / 1550 / 1625 nm

BENEFITS

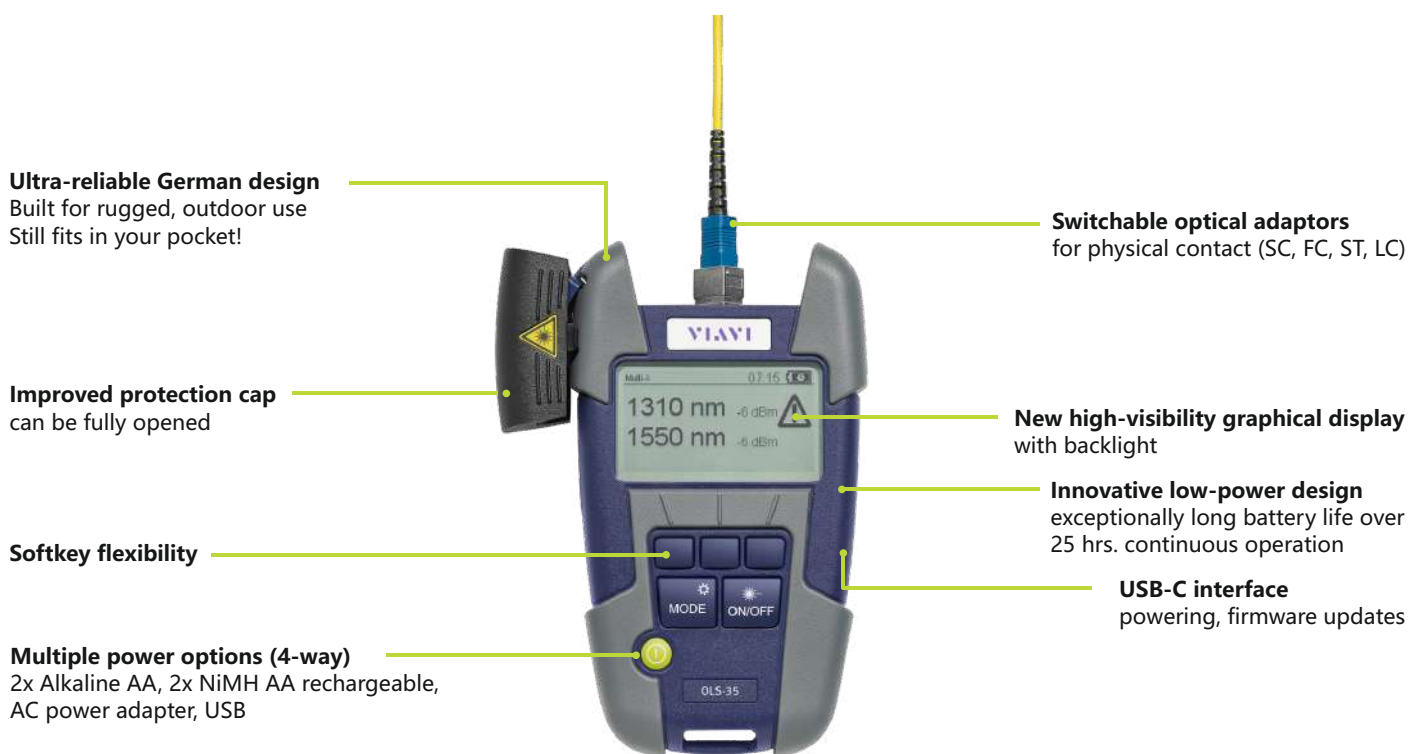
- Ready when you need it - ultra-high reliability and high availability
 - Dependable, German design
 - Designed with outdoor environment in mind
 - Low power consumption for extended continuous use
 - Instant On – no boot time
- Easy to use
 - High-Visibility backlit graphical display with context-sensitive softkey
 - Auto-λ, Multi-λ mode

FEATURES

- Combines up to 4 wavelengths in one instrument (SM + MM)
- Fiber Tracing – generating light source tone(s)
- Cost-effective and compact optical light sources
- Switchable optical adapter versions available for maximum flexibility

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 for use in telecom, CATV, and military applications build

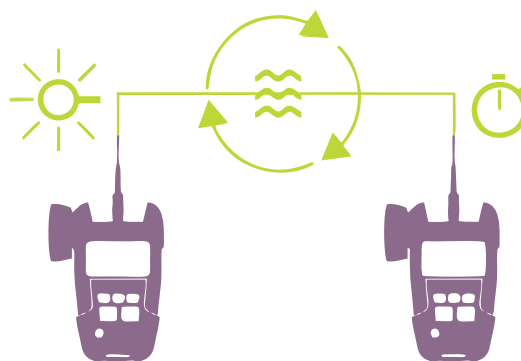


Instant On – Easy to use - Good to go in no time

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

Auto-λ, Multi-λ Mode

When SmartPocket V2 OLS are used in combination with SmartPocket V2 optical power meters (OLP-3xV2), 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.



Robust and ready for field use

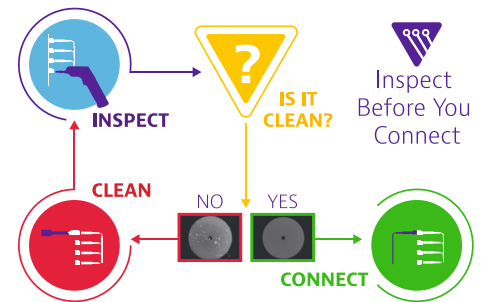
The SmartPocket V2 robust design with integrated rubber 'bumpers' make it ready for use in the real world and able to survive the odd bump or knock while the recessed test port and test port cap protects the connector from accidental damage

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.

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	±23 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 ¹	± 0.05 dB within 8 hrs.	± 0.05 dB within 8 hrs.	± 0.05 dB within 8 hrs.		± 0.05 dB within 8 hrs.
Optical Connectors	1x SC/PC	1x SC/PC	2x SC/PC		1x SC/PC

¹ requires a warm-up time of 20 minutes and applies to a constant temperature

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
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
Light Sources include: instrument, switchable adapter, belt bag, neck strap, quick start guide, safety instructions, alkaline batteries	
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.