Brochure

VIAVI
OLS-35V2 and OLS-36V2

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-35V2 covers all standard 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)

Key Benefits

- Ready when you need it – ultra-high reliability and high availability
    - Dependable, German design
    - Designed with outdoor environment in mind
    - Over 50 hours continuous use
    - Instant On – no boot time
- Easy to use
    - High-Visibility backlit graphical display with context-sensitive softkey
    - Auto-λ, Multi-λ mode

Key Features

- Combines up to 4 wavelengths in one instrument (SM + MM)
- Dual wavelength single mode (1310/1550 nm)
- Quad wavelength single mode (1310/1550 nm) and multimode (850/1300 nm)
- 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

Features and benefits

Ultra-reliable German design
Built for rugged, outdoor use
Still fits in your pocket!

Improved protection cap
can be fully opened

Softkey flexibility

Multiple power options (4-way)
2x Alkaline AA, 2x NiMH AA rechargeable,
AC power adapter, USB

Switchable optical adaptors
for physical contact (SC, FC, ST, LC)

New high-visibility graphical display
with backlight

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

USB-C interface
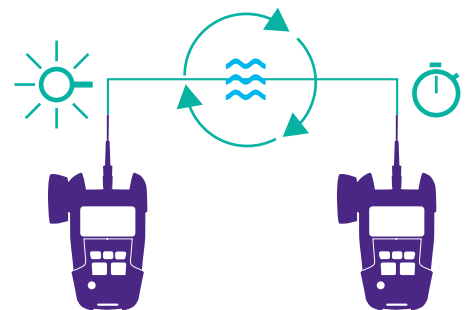powering, firmware updates

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.
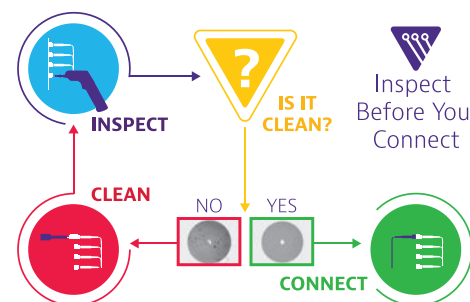
Robust and ready for field use

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 boasts an industry leading 50 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 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.

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**	✓	✓	✓	✓*	✓	✓	✓

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 G-PON, XGS-PON
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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