

OLP-35V2 OLP-35SC OLP-38V2

SmartPocket[™] Optical Power Meters

Operating manual

BN 2333/98.11

2021.01

English

Please direct all enquiries to your local Viavi sales company. The addresses can be found at: www.viavisolutions.com/en-us/contact-sales-expert

The description of additional features of the device can be found at: www.viavisolutions.com/en-us/products/network-test-and-certification

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Viavi Solutions Deutschland GmbH Arbachtalstraße 5, D-72800 Eningen u. A.

Order number: BN 2333/98.11 Issue: 2021.01 Previous issue: - -

Notes:

Changes may be made to specifications, designations and delivery information.



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1 INTRODUCTION

OLP-35V2/-35SC/-38V2 Optical Power Meters

The handheld Optical Power Meters

- OLP-35V2 (BN 2333/12)
- OLP-35SC (BN 2333/13)
- OLP-38V2 (BN 2333/14)

measure power levels on fiber optical systems.

The Test Sets are specially designed for high performance testing of all optical signals and systems, i.e. broadband, PONs, and Gigabit Ethernet.

Battery operation from two AA batteries and the robust, shockproof design provide long operating time in the field even under tough conditions. AC line operation via a separate AC adapter and the USB interface ensure ease of use in the laboratory or production environment.

Common features

All OLP-3xV2 power meters can connect to single-mode and multi-mode fibers with a max. core diameter of 50 $\mu m.$

Tests on systems from different manufacturers with different connector types are easy to handle due to the UPP adapter for 1.25 and 2.5 mm ferrules (OLP-35V2/-38V2 only).

A suitable optical source is required for measuring attenuation. The Viavi OLS-3x and OLS-3xV2 Optical Light Sources are ideal for this application.

Both modulated and unmodulated light signals can be measured. The average power of modulated light signals is displayed.

Modulated signal mode, which uses different fixed frequencies, can be used to identify fibers in a fiber bundle, for example.

The "Auto- λ " function provided by the OLP-3xV2 Optical Power Meters allows automatic wavelength detection. This application requires a wavelength encoding light source, e.g. one of the Viavi OLS-3x or OLS-3xV2 Optical Light Sources.



Differences between the models

All the power meters are calibrated at 850 nm, 980 nm, 1310 nm, 1490 nm, 1550 nm, 1577 nm, 1625 nm and 1650 nm. The differences between the devices are the diode types and the maximum permitted power levels:

Model	BN	Diode type	Adapter	Display range
OLP-35V2	2333/12	InGaAs	UPP	+10 dBm
OLP-35SC	2333/13	InGaAs	fixed SC	+10 dBm
OLP-38V2	2333/14	filtered InGaAs	UPP	+26 dBm

Operating manual update

If the operating instructions about features provided by your device are missing, please visit the Viavi web site to check if additional information is available.

To download the latest operating instructions:

- 1. Visit the Viavi web site at www.viavisolutions.com.
- 2. Search for SmartPocket V2.
- 3. Open the download area and download the operating instructions if available.



Symbols used in this operating manual

Various elements are used in this operating manual to draw attention to special meanings or important points in the text.

Symbols and terms used in warnings

The following warnings, symbols and terms are used in this document in compliance with the American National Standard ANSI Z535.6-2011:

NOTICE

Follow the instructions carefully to avoid damage to or destruction of the instrument.

A CAUTION

Follow the instructions carefully to avoid a low or medium risk of **injury to persons.**

WARNING

Follow the instructions carefully to avoid **potential death** or **severe injury** to persons.

A DANGER

Follow the instructions carefully to avoid **death** or **severe injury** to persons.



High Voltage

Follow the instructions carefully to avoid **damage** to the instrument or **severe injury** to persons.

This safety instruction is given if the danger is due to **high** voltage.



Laser

Follow the instructions carefully to avoid **damage** to the instrument or **severe injury** to persons.

This safety instruction is given if the danger is due to **laser** radiation. Information specifying the laser class is also given.



Warning format

All warnings have the following format:

A WARNING

Type and source of danger Consequences of ignoring the warning

► Action needed to avoid danger.

The following character formats are used in this operating manual:

√	Requirement		
	This requirement must be met first; e.g.		
	✓ The device is switched on.		
>	Instruction		
1. 2.	Follow the instructions given (the numbers indicate the order in which the instructions should be followed); e.g.		
	▶ Select mode.		
Italics	Result		
	Indicates the result of following an instruction; e.g.		
	The page opens.		
Bold	Pages, controls, and display elements		
type face	Screen pages, controls, and display elements are indicated in bold type.		
Text in	Cross references		
blue	Cross references are indicated in blue type. When using the PDF version, just click on the blue text to skip to the cross reference.		
[MODE]	Device keys		
	Device keys are indicated within square brackets.		



2 SAFETY INFORMATION

Warning symbols on the device



Warning symbols indicating a potential hazard

▶ A warning symbol on the device indicates a potential hazard. In all cases where the a warning symbol is shown on the display or labeled on the device, the operating manual must be consulted to learn more about the nature of the potential hazard and any actions that have to be taken.

Proper use

This instrument is intended for measurements on optical fiber devices and systems.

- Please make sure the instrument is not operated outside the permitted ambient conditions.
- Observe the specified measurement range.
- Always make sure that the instrument is in proper working order before switching it on.



Laser safety



A WARNING

Dangerous laser radiation

Laser radiation can cause irreparable damage to the eyes and skin.

The maximum permitted power for the OLP-3xV2 means that the optical input signals can reach Hazard Level 4, depending on the device type.

Bear this in mind when using the OLP-3xV2.

- Always be aware of the hazard level of the device to be connected.
- Connect all optical fibers before switching on the radiation source.
- Switch off the laser source before disconnecting the optical fibers.
- Never look directly into the output of a laser source or into an optical fiber connected to it.
- Always cover unused ports.
- ► Heed the normal precautions for working with laser radiation and consider local regulations.

Battery operation

A WARNING

Explosion danger

Short-circuiting the batteries can result in overheating, explosion or ignition of the batteries and their surroundings.

- Never short-circuit the battery contacts by touching both contacts simultaneously with an electrically conductive object.
- Only use AA size dry batteries or rechargeable batteries.
- ▶ Take care to insert the batteries correctly.
- Never use batteries based on lithium.



A WARNING

Explosion danger

Dry batteries must not be recharged.

- ► The OLP-3xV2 does not have a recharge function for rechargeable batteries, so there is no danger when using dry batteries.
- ▶ Read the manual of the external charging device.

Ventilation

NOTICE

Insufficient ventilation

Insufficient ventilation can damage the device or adversely affect its function and safety.

▶ Ensure adequate ventilation when operating the instrument.



3 GETTING STARTED

Unpacking the device

Packing material

We suggest that you keep the original packing material. It is designed for reuse (unless it is damaged during shipping). Using the original packing material ensures that the device is properly protected during shipping.

Checking the package contents

Your device is shipped with the following accessories:

- 2.5 mm universal adapter
- · 2 dry batteries AA
- Operating manual
- · Belt bag

Checking for shipping damage

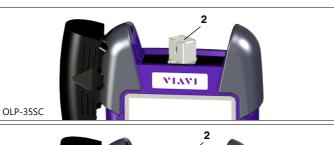
After you unpack the device, check to see if it has been damaged during shipping. This is particularly likely if the packaging is visibly damaged. If there is damage, do not attempt to operate the device. Doing so can cause further damage. In case of damage, please contact your local Viavi Sales Company. Addresses can be found at www.viavisolutions.com.

Recovery following storage/shipping

Condensation can occur if a device that is stored or shipped at a low temperature is brought into a warm environment. To prevent damage, wait until no more condensation is visible on the surface of the device before powering it up. Do not operate the instrument until it has reached its specified temperature range and wait until it has cooled down if the instrument was stored at a high temperature (see "Environmental conditions" on page 32).



Device overview





- 1 Test head cover
- 2 UPP (OLP-35V2/38V2), SC Adapter (OLP-35SC)
- 3 Display
- 4 Key pad

Representation in the user manual:

[Context sensitive keys (here left key is selected)

 [MODE]
 Mode/Settings key

 [□]
 Save/Results key

[①] Power key

USB interface

For power supply and measurement data downloads and updates.

6 Battery compartment (on rear of the device)

OLP-35V2/-35SC/-38V2



Keys

The key pad contains two types of keys:

- Context sensitive keys: The functions of these keys depend on the selected mode or menu and is shown in the display above the key.
- Function keys: The functions of these keys are always the same and shown on the key itself.

Key usage (first and second function levels)

The function keys and the context sensitive keys in certain modes have two function levels.



A second function level is indicated by two cascading frames.

- Short press: Select the first level function.
- Long press: Holding the key for at least 2 sec. opens the second level. You then have access to additional functions or a menu to change settings.

	Short press	Long press
0	Press to switch the device on/off.	
Context keys	Select/show Left key always: Select a wavelength out of 6 predefined values.	Change Left key always: Change the predefined wavelength.
MODE key	Switch between Expert and OptiChek mode. Return from Settings menu.	Open the settings menu.
Save/Result key	Store the current measurement.	Open the list of saved measurements.

Power Supply

NOTE: The devices are not designed for batteries based on lithium.

The following power sources can be used to operate the OLP-3xV2:

- Two 1.5 V dry batteries (Mignon AA size, alkaline type recommended)
- Two 1.2 V NiMH rechargeable batteries (Mignon AA size)
- via AC adapter over USB interface



Battery operation

A WARNING

Dangers in handling batteries

Handling batteries may be dangerous. Please note the following safety instructions.

Please note the battery operation safety information in the section "Battery operation" on page 10.

Replacing the batteries

- Do not replace individual batteries. Always change both batteries at the same time.
- ▶ Always use batteries of the same type; i.e. do not mix rechargeable and non-rechargeable batteries.

Replacing the batteries

The battery compartment is on the back of the device.

1. Pull down the lid to open the battery compartment.

NOTICE: Take care to insert the batteries correctly. The correct polarity is indicated by a diagram inside the battery compartment.

- 2. Insert new batteries or replace dead ones.
- 3. Close the battery compartment.
- 4. Press [O] to switch on.

NOTE: The batteries cannot be recharged with the OLP-3xV2.

General tips on using batteries

- Never use batteries based on lithium.
- · Always handle batteries with care.
- Do not drop or damage the batteries or expose them to excessively high temperatures.
- Do not store rechargeable batteries for more than one or two days at very high temperatures (e.g. in a vehicle), either separately or fitted in the device.
- Do not leave discharged batteries in the device for a long time if it is not being used.
- Do not store rechargeable batteries for more than 6 months without recharging them at intervals.
- Avoid deep discharging of the batteries as this can cause the cell polarity to reverse and make the battery useless.



Protecting the environment

Please dispose of any unwanted dry batteries and rechargeable batteries carefully. They should also be removed from the instrument if it is to be scrapped. If facilities in your country exist for collecting waste or for recycling, please make use of them rather than throwing the batteries in the normal trash. You will often be able to return used batteries to the place where you purchase new ones. Any dry or rechargeable batteries that you purchased from Viavi can be returned to one of our Service Centers for disposal.

Operation from AC power

To fit one of the mains plug adapters:

► See *Fig. 1* and follow the instructions which are shown on the packaging of the mains plug adapter.

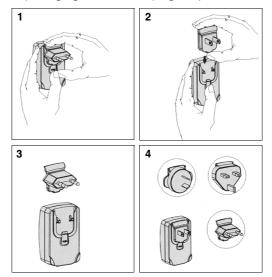


Fig. 1 Fitting the mains plug adapter

To operate the OLP-3xV2 from AC power:

- 1. Connect the USB-C connector power cord to the OLP-3xV2.
- 2. Plug the mains plug adapter into the AC receptacle.



4 OPERATION

Switching the device on/off

The OLP-3xV2 has two battery power modes:

Mode	Icon	Description
Permanent ON (PERM)		The device is switched on permanently.
Automatic OFF (ECON)	Ø	The device switches off 20 minutes after the last operation. This function is only available when the device is powered from batteries.

To switch the device on/off:

▶ Press [①] to switch the device on/off.

Selecting a power mode

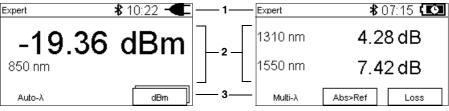
To change the power mode:

- √ The device is switched on.
- 1. Long press [MODE] to open the settings menu.
- 2. Use [★♣] to select **ECON**.
- Press [] to select power mode:
 ON = ECON
 OFF = PERM
- 4. Press [MODE] to close the menu.



Display elements

The following elements can be found in the display.



Display of one value in Auto- $\!\lambda$ mode.

Display of two values in Multi- λ mode.

1 – Status l	par	
Expert/ OptiChek	Selected/active mode The mode can be changed via the [MODE] key.	
*	Bluetooth® is active Bluetooth connction allows for data transfer via the MobileTech app (for future use).	
7:15	Real Time Clock Time can be changed via the settings menu.	
	Battery status in PERM power mode: Device remains switched on.	
	Battery status in ECON power mode: Device switches off 20 minutes after the last operation.	
◆	The device is powered via USB	
2 – Center	of display	
db/dBm	Shows the measurement results in dBm, dB or W.	
nm	Display of selected wavelength (displayed wavelength depends on settings and model).	
3 – Contex	t sensitive key functions	
Auto-λ Multi-λ	Detected operating mode (when Auto-λ is set to ON in the settings menu).	
Abs>Ref	Function is selected by pressing the context key.	
dBm	Function is selected by pressing the context key. Long press will provide additional functions/settings.	



Settings menu

The following settings can be changed in the settings menu.

▶ To open the settings menu long press [MENU].

Item	Settings	Description
Hour	112	▶ Press [□□■] to change setting:
Minute	159	Press once to change one step at a time.
Year	20202030	Hold down the key to increase the step change
Month	0112	rate.
Day	0131	
About	Show device data including last calibration date	 ▶ Press [✓] to confirm setting. ▶ Press [൶] to return to the settings menu.
Factory Reset	Reset	
Auto Lambda	ON/OFF	Press [
Bluetooth LE ON/OFF		rkey to toggic on von
ECON	ON/OFF ON = ECON OFF = PERM	

Selecting a wavelength

The sensitivity of the photo diode depends on the wavelength. The wavelength setting of the device must match the wavelength of the incoming signal to ensure a correct reading.

To select a wavelength:

▶ Press [■□□] to select a new wavelength.

The current value is shown in the lower left corner:





The wavelengths that can be selected by pressing this key are an extract of those contained in the internal wavelength table.

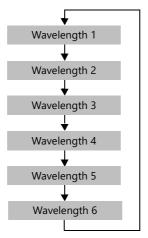


Fig. 2 Wavelength entries

Editing the wavelength table

The wavelength table supports the definition of up to 6 wavelengths.

To edit the wavelength table:

- \checkmark Auto- λ is switched off.
- 1. Press [■□□] to select a wavelength.
- 2. Long press [■□□].

 The wavelength table is in edit mode and the selected wavelength position is shown (in a box) on the right.



- 3. Use [+]/[–] to change the wavelength value.
 - Press once to change stepwise.
 - Hold down the key to increase the step change rate.
- **4**. Press [✓] to save the new wavelength.



Selecting Expert/OptiChek mode

The OLP-3xV2 provides two operating modes:

Expert

All functions are available, like selecting a wavelength and loss measurement. Use this mode for in depth evaluation of your test environment. All following described functions are available in Expert mode only.



OptiChek

This mode is meant for quick and easy test procedures. Only the absolute power level can be measured and you can not select a wavelength (range from 1300 to 1600 nm is used).



To select an operating mode:

► Tap [MODE] to toggle between Expert and OptiChek mode.

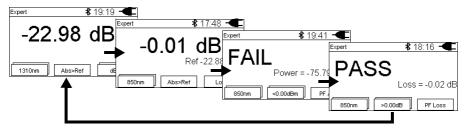
Selecting a display mode

The OLP-3xV2 provides following display modes:

- dBm/Watt: Display of absolute power level
- Loss: Display of power level relative to a reference value
- PF Abs: Pass/Fail indication based on an absolute power threshold
- PF Loss: Pass/Fail indication based on a relative power threshold

To select a display mode:

▶ Press [□□■] to toggle between the displays modes.





Absolute power level mode

The power level is displayed in dBm or Watts (nW, µW, mW).

▶ Long press [□□■] to toggle dBm/Watts.



NOTE: The context sensitive field shows the selected unit.

Display range

Model	BN	dBm	Watt
OLP-35V2	2333/12	-65 to +10 dBm	1 nW to 10 mW
OLP-35SC	2333/13	-50 to +26 dBm	10 nW to 400 mW
OLP-38V2	2333/14	-65 to +10 dBm	1 nW to 10 mW

Loss mode

In **Loss** mode the power level relative to a reference value is displayed. The reference value can be set by defining the current power level as the reference value [Abs>Ref].

▶ Press [□□■] to display relative power level.

Setting the reference level

✓ Loss mode is selected.

Press [Abs>Ref].
The current power level is set as the new reference level.



NOTE: The reference level must be stored for each individual wavelength separately.



Pass/Fail mode

An integrated pass/fail analysis feature simplifies standard conformity testing and provides unambiguous measurement result presentation.

The OLP-3xV2 provides two Pass/Fail modes:

- PF Abs: Pass/Fail indication based on a absolute power threshold
- PF Loss: Pass/Fail indication based on a loss threshold

To select a Pass/Fail mode:

▶ Press [□□■] until **PF Abs** or **PF Loss** is displayed.

NOTE:

When **PF Abs** or **PF Loss** is selected the two modes can also be toggled by pressing $[\square \square \square]$.

Setting the fail threshold

Setting the fail threshold is identical for both Pass/Fail modes.

- ✓ PF Abs or PF Loss mode is selected. Press [□■□] to toggle between both modes.
- 1. Press $[\square \square \square]$ to select a wavelength (see also page 19).
- 2. Long press $\square \square \square$.

The Set Fail Threshold screen opens.



- 3. Use [+]/[-] to change the threshold.
- **4.** Press [✓] to save the new threshold.

NOTE:

When Multi- λ is active, the fail threshold can not be set. To deactivate Multi- λ e.g. switch of the laser or disable Multi- λ at the transmitter side temporarily.



Displaying modulated signals

The OLP-3xV2 automatically detects the modulation frequency of light signals modulated at the fixed frequencies (270 Hz, 330 Hz, 1 kHz, 2 kHz) and CW (constant wave). The detected frequency is shown in the lower center display pane.

NOTE:

The OLP-3xV2 can automatically detect the modulation frequency only if **no** Auto- λ was detected (see "Enabling Auto-Lambda mode" on page 24).

Enabling Auto-Lambda mode

Auto- λ is a special feature developed by Viavi that allows you to identify wavelengths automatically. To do this, the signal is modulated at a certain frequency (by a light source equipped with Auto- λ such as a Viavi OLS-3xV2), which can be detected by a Viavi OLP-3xV2.

Wavelengths may not be reliably detected in following situations:

- The received level is too low.
- · Due to interferences.
- You are measuring the absolute level of a system that does not have wavelength encoding that matches Viavi power sources.

NOTE:

The Auto- λ function can be disabled in order to prevent an incorrect wavelength detection while measuring "In-Service" systems.

To switch Auto- λ mode on/off:

- 1. Long press [MODE] to open the settings menu.
- 2. Use $[\uparrow]/[\downarrow]$ to select Auto- λ .
- 3. Press [\blacksquare] to switch Auto- λ on/off.

If Auto- λ mode is activated and an optical source supporting Auto- λ is connected, **AUTO-** λ is shown in the lower left display.



Display in Auto-λ mode

When an **Auto-** λ signal is detected (Auto- λ mode needs to be activated), the wavelength setting switches automatically to the applied wavelength and can't be changed manually.



Fig. 3 Display in $Auto-\lambda$ mode showing one detected wavelength and the power level.

Multi-Lambda mode

The OLP-3xV2 can receive Multi- λ signals and display up to three wavelengths simultaneously. To enable Multi- λ it has to be activated on the optical source, connected with the OLP-3xV2 (e.g. Viavi OLS-34/35/38) and Auto- λ must be switched on at the OLP-3xV2.



Fig. 4 Multi- λ mode

To switch on Auto-λ: See "Enabling Auto-Lambda mode" on page 24.



5 Memory Management

General information

The OLP-3xV2 allows you to save the measured power level values in a data memory and recall them as required. **Up to 1000 results can be stored.**

NOTE:

See also "Specifications" on page 31 for additional data management tools.

Storing measurements

▶ Press [☐] to save the current result.

The result is saved when "Saving ..." appears on the display and below the name of the currently saved data.

The results are always stored with the current date-/ timestamp (e.g. 2021-01-13T16-05-52, corresponding to January 13'th 2021 at 16h:05min:52s)

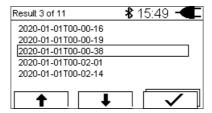


The new results are always appended successively at the last memory location, even if you clear a previously assigned memory location with a lower number.

Recalling measurements

1. Long press [元].

The device shows the list of saved measurements.





- 2. Press [♠]/[♣] to browse through the list.
- 3. Press [✓] to open the highlighted entry.

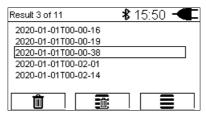
 The selected measurement data is displayed.



4. Press [■] to return to the list or, press [♠]/[♣] to show next/previous result or press [MODE] to exit.

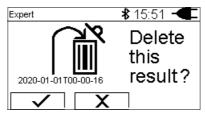
Deleting measurements

- √ The device shows the list of saved measurements.
- 1. If you want to delete a single entry, use [♠]/[♣] to select it.
- 2. Long press [✓] to open the sub menu.



3. Press [1 to delete the selected entry. or press [1 to delete all results.

A dialog will ask you to confirm the deletion.



- 4. Press [✓] to accept or press [X] to cancel.
- 5. Press [] to close the sub menu and to show the list of saved measurements or press [MODE] to exit.

NOTE: You cannot select and overwrite empty memory locations.



6 DATA EXPORT AND FIRMWARE UPDATE

The USB interface or the Bluetooth® interface (OLP-3x only) can be used for data export and firmware update.

USB and SmartReporter

When using the USB interface the SmartReporter allows you to easily transfer stored measurement data to a PC and to update the firmware.

The SmartReporter reporting tool is offered by Viavi for free and can be download from:

https://updatemyunit.net/ > Application Software.

 For more information about data export and firmware update via USB and SmartReporter please refer to the SmartReporter user manual.

Bluetooth® and MobileTech app / StrataSync cloud (OLP-3x only)

Using the OLP-3x you have also the choice to upload the saved data and to update the firmware using Bluetooth® via Viavi's MobileTech App into the StrataSync cloud.

▶ Please contact your Viavi representive for more information.



7 MAINTENANCE



WARNING

Invisible laser radiation

Maintenance or cleaning of the instrument while it is connected or operating may damage the instrument or injure you.

- Make sure that the instrument is switched off and disconnected from all power sources and optical radiation sources before maintenance or cleaning.
- ► Do not open the instrument for maintenance or service. Service shall be performed by Viavi trained personnel only.

Cleaning the test port

It is a good idea to check that the optical connections are clean and to clean them if necessary before starting measurements. Even very small dust particles on the end surfaces of the plugs or in the test adapters can adversely affect the accuracy of the measurement.

NOTICE

Damage to the photo diode

Touching the photo diode could scratch the glass surface.

- Be careful when cleaning the photo diode and do not use any rough cleaning materials.
- 1. Switch off the device.
- Blow into the test adapter with compressed and clean air to remove dust

NOTE:

Cover the optical connections with the dust cap whenever they are not in use. This prevents them from getting dirty.



Cleaning the instrument

If the device gets dirty through use, you can clean it using a soft cloth moistened with a mild solution of detergent.

NOTICE

Water and cleaning fluids

The instrument may be damaged or destroyed if water or cleaning fluids penetrate it.

Make sure that water or cleaning fluids do not get inside the instrument.



SPECIFICATIONS

OLP-35V2/-35SC

Adjustable wavelength range	800 to 1650 nm (1 nm incr.)
Calibrated wavelengths	850 nm, 980 nm, 1310 nm,
	1490 nm, 1550 nm, 1577 nm,
	1625 nm, 1650 nm
Photo diode	InGaAs
Fiber type	9/125 to 50/125
Display range	-65 to +10 dBm
Resolution	0.01 dB, 0.001 μW
Max. power level	+16 dBm
Intrinsic uncertainty ¹⁾	Expert mode: ±0.2 dB (±5%)
	OptiChek: ±0.8 dB (±5%)
Linearity ²⁾	±0.06 dB
Overall measurement uncertainty ²⁾	
850 nm, 980 nm	±0.35 dB ±0.8 nW
1310 nm, 1550 nm	±0.25 dB ±0.1 nW
1490 nm, 1625 nm	±0.35 dB ±0.1 nW
1650 nm	±0.45 dB ±0.1 nW

¹⁾ Under reference conditions: -11 dBm (CW), 1310 nm ± 1 nm, 23 °C ± 3 K, 45 to 75% relative humidity, 9 μm test fiber, 9° angeled ceramic end face

OLP-38V2

Adjustable wavelength range	800 to 1650 nm (1 nm incr.)
Calibrated wavelengths	850 nm, 980 nm, 1300 nm,
	1310 nm, 1490 nm,
	1550 nm, 1625 nm
Photo diode	filtered InGaAs
Fiber type	9/125 to 50/125
Display range	-50 to +26 dBm
Resolution	0.01 dB, 0.001 μW
Max. power level	+27 dBm
Intrinsic uncertainty ¹⁾	Expert mode: ±0.5 dB (±12%)
	OptiChek: ±0.8 dB (±12%)
Linearity ²⁾	±0.06 dB
Overall measurement uncertainty ²⁾	
850 nm, 980 nm	±0.60 dB ±30 nW
1300 nm, 1310 nm, 1550 nm, 1625 nm	±0.55 dB ±10 nW
1490 nm	±0.65 dB ±10 nW

¹⁾ Under reference conditions: -11 dBm (CW), 1310 nm ±1 nm, 23 °C ±3K, 45 to 75% relative humidity, 9 μ m test fiber, 9° angeled ceramic end face 2) -32 to +20 dBm from 0 to +45 °C

OLP-35V2/-35SC/-38V2

^{2) -50} to +5 dBm from 0 to +45 °C



General specifications

Wavelength detection ¹⁾²⁾	Automatic switching and
	displaying wavelengths
Modulation detection ²⁾	CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz
Optical adapter system	
OLS-35V2/-38V2	UPP 2.5 mm (1.25 mm optional)
OLS-35SC	Fixed SC
	both suitable for PC and APC systems

	OLS-35SC	Fixed SC			
	013 3330	both suitable for PC and APC systems			
	1) Only in conjunction with Viavi OLS-3x Optical Light Sources. 2) BN 2333/12/14 for levels > -50 dBm BN 2333/13 for levels > -35 dBm				
Mamanu					
Memory	Memory capacity	1000 measurement results			
	Data readout	via USB-C interface			
Calibration interval	Recommended calibration inter	val 3 years			
Power supply	D. L. H. d	244.15.7/			
	Dry batteries	2 x AA, 1.5 V (never use batteries based on lithium)			
	Rechargeable batteries	NiMH, 2 x AA, 1.2 V			
	Power consumption	2.5 W max.			
	Operating life with dry/	typ. 80 h			
	rechargeable batteries	(Bluetooth® off)			
	AC line operation	With separate 5 V DC USB adapter.			
		Use EMC and Safety certified			
		low energy adapters only.			
	Power saving	Auto power-off after approx. 20 min			
		(can be disabled)			
EMC and safety	- 1				
Livic and salety	Electromagnetic compatibility (
	Device safety	EN 61010-1:2010			
Environmental	Operating temperature range	-10 to +55 °C (14 to 131 °F)			
conditions	Storage and transport	-40 to +70 °C (-40 to 158 °F)			
	Altitude	2000 m max. (6500 ft. max.)			
	Pollution degree	2			
Air humidity	Relative humidity up to +31 °C	15 to 85 %			
	Absolute humidity > +31 °C	1 to 29 g/m ³			
		tolerable as a limit condition.			
	Occasional condensation is	tolerable as a little condition.			
Dimensions	Dimensions (H x W x D)	30 x 80 x 150 mm (1.18 x 3.15 x 5.90 in)			

Dimonsions	
Dimensions	Dimensions (
and weight	Weight (incl.

Dimensions (H x W x D)	30 x 80 x 150 mm (1.18 x 3.15 x 5.90 in
Weight (incl. batteries)	200 g (0.44 lb



9 ORDERING INFORMATION

Devices

OLP-35V2

Optical Power Meter

InGaAs OLP-35V2

OLP-35SC

Optical Power Meter with fixed SC Adapter

InGaAs OLP-35SC

OLP-38V2

Optical Power Meter, High Power

InGaAs (coated) OLP-38V2

Calibration report

OLP-35V2, OLP-35SC, OLP-38V2 BN 2333/90.03

Accessories

Cleaning materials, power supplies

OCK-10 Optical cleaning kit	BN 2229/90.21
Cleaning tape for optical connectors	BN 2229/90.07
Spare optical cleaning tape	BN 2229/90.08
NiMH rechargeable batteries, Mignon AA, 1.2 V (2 batteries required)	BN 2237/90.02
AC adapter	BN 2302/90.01
UPP adapter 1.25 mm	BN 2256/90.03



PRODUCT REGULATORY COMPLIANCE

Viavi Environmental Management Program

Superb performance and high quality have always characterized Viavi datacom and telecom measurement technology products. In this same world-class tradition, Viavi has an established, proactive program of environmental management.

Environmental management is an integral part of Viavi's business philosophy and strategy requiring the development of long-term, productive solutions to problems in the key areas of economics, technology, and ecology.

A systematic environmental management program at Viavi is essential in regard to environmental policy and enhances cooperation between ourselves and our business partners.

The Viavi Environmental Management Program considers:

Product design and manufacture

Environmental restrictions and requirements are taken into account during planning and manufacture of Viavi products. This attention ranges from the raw materials and finished components selected for use and the manufacturing processes employed, through to the use of energy in the factory, and right on up to the final stages in the life of a product, including dismantling.

Hazardous materials

Viavi avoids or uses with care any hazardous or dangerous material in the manufacturing process or the end product. If the use of a dangerous material cannot be avoided, it is identified in product documentation and clearly labeled on the product itself.

Packaging materials

Preference is given to reusable or biodegradable singlesubstance packaging materials whenever possible.

Environmental management partnerships

Viavi encourages our customers and suppliers who take this responsibility seriously to join Viavi in establishing their own environmental management programs.



EU WEEE and Battery Directives

This product, and the batteries used to power the product, should not be disposed of as unsorted municipal waste and should be collected separately and disposed of according to your national regulations.



Viavi has established a take-back process in compliance with the EU Waste Electrical and Electronic Equipment (WEEE) Directive, 2012/ 19/EU, and the EU Battery Directive, 2006/66/EC.

Instructions for returning waste equipment and batteries to JDSU can be found in the WEEE section of Viavi's Standards and Policies web page (https://www.viavisolutions.com/en-us/ corporate/legal/policies-standards#sustain).

If you have questions concerning disposal of your equipment or batteries, contact JDSU's WEEE Program Management team at WFFF FMFA@ViaviSolutions.com

FU REACH

Article 33 of EU REACH regulation (EC) No 1907/2006 requires article suppliers to provide information if a listed Substances of Very High Concern (SVHC) is present in an article above a certain threshold.

For information on the presence of REACH SVHCs in Viavi products, see the Hazardous Substance Control section of Viavi's Standards and Policies web page.

EU CE Marking Directives (LV certified by TÜV SÜD; EMC, RoHS, RE)

This product conforms with all





applicable CE marking directives. Please see EU Declaration of Conformity for details.

California Proposition 65

California Proposition 65, officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986, was enacted in November 1986 with the aim of protecting individuals in the state of California and the state's drinking water and environment from excessive exposure to chemicals known to the state to cause cancer, birth defects or other reproductive harm. For the Viavi position statement on the use of Proposition 65 chemicals in Viavi products, see the Hazardous Substance Control section of Viavi's Standards and Policies web page.



"中国RoHS"

《电子信息产品污染控制管理办法》(信息产业部,第39号) 附录

本附录按照"中国RoHS"的要求说明了有关电子信息产品环保使用期限的情况,并列出了产品中含有的有毒、 有害物质的种类和所在部件。本附录适用于产品主体和所有配件。

环保使用期限:



本标识标注于产品主体之上,表明该产品或其配件含有有毒、有害物质(详情见下表)。 其中的数字代表在正常操作条件下至少在产品生产日期之后数年内该产品或其配件内含有的有毒、 有害物质不会变异或泄漏。该期限不适用于诸如电池等易耗品。

有关正常操作条件,请参见产品用户手册。

产品生产日期请参见产品的原始校准证书。

有毒、有害物质的类型和所在部件

元器件	有毒、有害物质和元素					
(Component)	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
<u>产品主体</u> (Main Product)						
印刷电路板组件 (PCB Assemblies)	Х	0	0	0	0	0
内部配线 (Internal wiring)	0	0	0	0	0	0
显示器 (Display)	0	0	0	0	0	0
键盘 (Keyboard)	0	0	0	0	0	0
塑料外壳零件 (Plastic case parts)	0	0	0	0	0	0
配件 (Accessories)	0	0	0	0	0	0

O:代表该部分中所有均质材料含有的该有毒、有害物质含量低于SJ/T11363-2006标准的限值。 X:代表该部分中所有均质材料含有的该有毒、有害物质含量高于SJ/T11363-2006标准的限值。





North America +1 844-468 4284 Latin America +1 954 688 5660 China +86 21 6859 5260 Germany

+49 7121 86 0

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