



## 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<br>within 15 min | ± 0.02 dB<br>within 15 min | ± 0.02 dB within 15 min |               | ± 0.02 dB<br>within 15 min |
| Long Term Stability  | ± 0.05 dB<br>within 8 hrs. | ± 0.05 dB<br>within 8 hrs. | ± 0.05 dB within 8 hrs. |               | ± 0.05 dB<br>within 8 hrs. |

### Power Meters

|                                  | OLP-35V2                                                     | OLP-35SC                                                     | OLP-38V2                                                     | OLP-37XV2<br><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,<br>1540...1650 nm      |
| Display Range                    | 800...1650 nm,<br>step size 1 nm                             | 800...1650 nm,<br>step size 1 nm                             | 800...1650 nm,<br>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%)<br>at ref. conditions                        | ± 0.2 dB (± 5%)<br>at ref. conditions                        | ± 0.2 dB (± 5%)*                                             | ± 0.5 dB (± 12%)<br>at ref. conditions |
| Number of Calibrated Wavelengths | 8<br>(850, 980, 1310,<br>1490, 1550, 1577, 1625,<br>1650 nm) | 8<br>(850, 980, 1310,<br>1490, 1550, 1577,<br>1625, 1650 nm) | 8<br>(850, 980, 1310,<br>1490, 1550, 1577,<br>1625, 1650 nm) | 2<br>(1490, 1577 nm)                   |
| Tone Detection                   | 270 Hz, 330 Hz,<br>1 kHz, 2 kHz                              | 270 Hz, 330 Hz,<br>1 kHz, 2 kHz                              | 270 Hz, 330 Hz,<br>1 kHz, 2 kHz                              | 270 Hz, 330 Hz,<br>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                   | 45 hrs. (OLP) and 25 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 for Power Meters (not for OLP-35SC) | VPP-UPP12                                                                                     |
| SmartClass Fiber OPM UPP Adapter 2.5 mm for Power Meters (not for OLP-35SC)  | VPP-UPP25                                                                                     |
| Switchable Optical Adapter FC/PC FC/APC for Light Sources and OLP-37XV2      | 2155/00.05                                                                                    |
| Switchable Optical Adapter SC/PC for Light Sources for Light Sources         | 2155/00.06                                                                                    |
| Switchable Optical Adapter LC/PC LC/APC for Light Sources and OLP-37XV2      | 2155/00.07                                                                                    |
| Switchable Optical Adapter SC/APC for Light Sources and OLP-37XV2            | 2155/00.26                                                                                    |
| Switchable Optical 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                                                                                      |
| 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<br><a href="http://www.updatemyunit.net/">http://www.updatemyunit.net/</a> |