

SmartPocket™ Optical Test Kits

OMK-34/35/36/38



Viavi Solutions® SmartPocket optical test kits (OMK-3x) are the new generation of pocket-sized and rugged instruments for installing and maintaining 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.

Rugged Field Design and Flexible Optical Interface

A lightweight, shock-resistant splash-proof design and an extended operating time make OMK-3x 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-3x test kit ready for every connector type in the field.

Auto-λ Recognition Mode and TwinTest Mode

Auto-λ is a special feature developed by Viavi to identify wavelengths automatically, helping avoid any manipulation errors due to incorrect settings.

In TWINTest mode, the source automatically toggles between two wavelengths. The far end optical power meter automatically measures both wavelengths.

Network Documentation and Certification

All Viavi SmartPocket optical power meters provide result storage capability of up to 100 results.

A micro USB port provides straightforward downloading using SmartReporter software. This software offers PDF or Excel report generation with pass/fail analysis against customized or industry standard thresholds.

Key Features

- Essential optical test kits for enterprise and service provider applications
- Certify standard, high dynamic, and high power applications
- Auto-wavelength and TWINTest features for error-free and efficient testing
- Permanent reference-level storage
- Fast result download and report generation with SmartReporter freeware

Applications

- Optical power level and link Insertion loss measurements for:
 - Enterprise/LAN networks with 850/1300 nm multimode wavelength capability
 - Access and metro (LAN/WAN) networks with multimode and single-mode testing combinations
 - Standard and high power level testing for telecom, CATV, and military applications
- Continuity checking and tone detection

Data Sheet

The Right Kit for Every Application

| Instruments | | | | | Applications | | | | |
|------------------------------|--------|--------------|-------------|-----------------------------|--------------|-----|-----------------------|----------------|-----------------------|
| | | Light Source | Power Meter | Wavelength | MM* | SM* | Access/ FTTx | Metro/ Core | LAN/WAN Enterprise |
| Enterprise | OMK-34 | OLS-34 | OLP-34 | 850/1300 nm | ✓ | | | | ✓ |
| | OMK-36 | OLS-36 | OLP-35 | 850/1300 nm 1310/1550 nm | ✓ | ✓ | ✓ | ✓ | ✓ |
| Service Providers | OMK-35 | OLS-35 | OLP-35 | 1310/1550 nm | | ✓ | ✓ | ✓ | |
| | OMK-38 | OLS-35 | OLP-38 | 1310/1550 nm | | ✓ | ✓ Video overlay | ✓ CATV | |

* MM = multimode
SM = single-mode

Viavi OMK-3x optical test kits provide essential tools for power and insertion loss measurement and are ideal for a wide range of installation and maintenance applications.

OMK-34

The OMK-34 is a dual-wavelength multimode optical test kit with a single-port LED source and a power meter with a universal push/pull adapter (UPP) interface for power level and loss measurement in LAN and enterprise environments.

OMK-35

The Viavi OMK-35 is a dual-wavelength single-mode optical test kit with a single-port laser source and a power meter with a UPP interface for power level and loss test measurement in access, metro, and core networks.

OMK-36

The Viavi OMK-36 is an all purpose quad-wavelength optical test kit with a dual-port multimode/singlemode light source and a power meter with a UPP interface for all single-mode and multimode power and loss measurements.

OMK-38

The Viavi OMK-38 is a dual-wavelength single-mode optical test kit with a single-port laser source and a power meter with a UPP interface for high power level and loss measurement in high-power networks and amplified network applications.



OMK-3x kit with light source, power meter, power supply, and USB cable.

Technical Specifications

| | OMK-34 Enterprise Kit | OMK-36 Enterprise Quad Kit | OMK-35 Service Provider Kit | OMK-38 Service Provider Hi-Power Kit |
|---|--|-------------------------------|--------------------------------|---|
| Light Source | OLS-34 | OLS-36 | OLS-35 | OLS-35 |
| Fiber type | MM (50/125 μ m) | MM (50/125 μ m)/SM | SM | SM |
| Output power | -20 dBm | -20 dBm/-7 dBm | -7 dBm | -7 dBm |
| Wavelength uncertainty | \pm 20 nm | | | |
| Connector type | Switchable adapters | | | |
| Power Meter | OLP-34 | OLP-35 | OLP-35 | OLP-38 |
| Power range | -60 to +5 dBm | -65 to +10 dBm | -65 to +10 dBm | -50 to +26 dBm |
| Max. input power | +13 dBm | +16 dBm | +16 dBm | +27 dBm |
| Connector type | Universal push pull (UPP), interface 2.5 mm (1.25 mm as accessory) | | | |
| Data storage | 100 results | | | |
| General Loss Test Set Specifications | | | | |
| Wavelength | 850 nm | X | X | |
| | 1300 nm | X | X | |
| | 1310 nm | | X | X |
| | 1550 nm | | X | X |
| Loss dynamic range | 40 dB | 40/58 dB | 58 dB | 43 dB |
| General Specifications | | | | |
| Dimension (w x h x d) | 280 x 215 x 50 mm (11 x 8.5 x 2 in) | | | |
| Weight | 0.6 kg (1.32 lb) | | | |

All OMK-3x kits include:

- A power meter with USB port (download capability and AC powering)
- A light source with switchable adapter (SC/PC mounted and FC/PC as a spare part)

3 SmartPocket Optical Test Kits

Ordering Information

| Description | Reference |
|--|-----------|
| Smart Pocket Test Kits | |
| OMK-34P Enterprise Plus- MM SmartPocket Test Kit with USB port | 2127/01 |
| OMK-36P Enterprise Plus- SM/MM SmartPocket Test Kit with USB port | 2127/04 |
| OMK-35P Service Provider Plus- SM SmartPocket Test Kit with USB port | 2127/02 |
| OMK-38P Service Provider Hi-Power Plus- SM SmartPocket Test Kit with USB port | 2127/03 |

Each kit comes with AA alkaline batteries, AC power adapter, USB cable, operating manual, neck strap, soft case MT-2P.

| Description | Reference |
|--|------------|
| Optional Accessories | |
| Fiber Cleaning Consumables kit | FCR-CLN-01 |
| NiMH rechargeable batteries, Mignon AA, 1.2V (2 batteries) | 2237/90.02 |
| SNT-505; universal AC power adapter, micro USB connector | 2302/90.01 |
| Neck strap for SmartPocket | 2302/90.03 |
| USB connection cable | K807 |
| MT-2P, soft case for 2 SmartPockets and accessories | 2127/90.01 |
| ST switchable adapter | 2155/00.32 |
| FC switchable adapter | 2155/00.05 |
| SC switchable adapter | 2155/00.06 |
| LC switchable adapter | 2155/00.07 |
| UPP adapter for LC ,MU (1.25 mm) | 2256/90.03 |
| SmartReporter Reporting Software (free download from http://smartreporter.updatemyunit.net/) | |