Optical Multi Meter

LM-3 Series

www. **LINKUTEL** .com

WARNING

- Do not look at the laser 's direct ray, reflected ray from a mirror, or indirect ray without the proper protective eyewear.
- Use the Correct Power Supply and AC Adapter
- When not in use for a long time, please take out the battery from the instrument to avoid the damage caused by battery leakage
- Do not use the instrument in one hour after moving the device from the cold area to the hot area, to avoid condensation phenomenon.
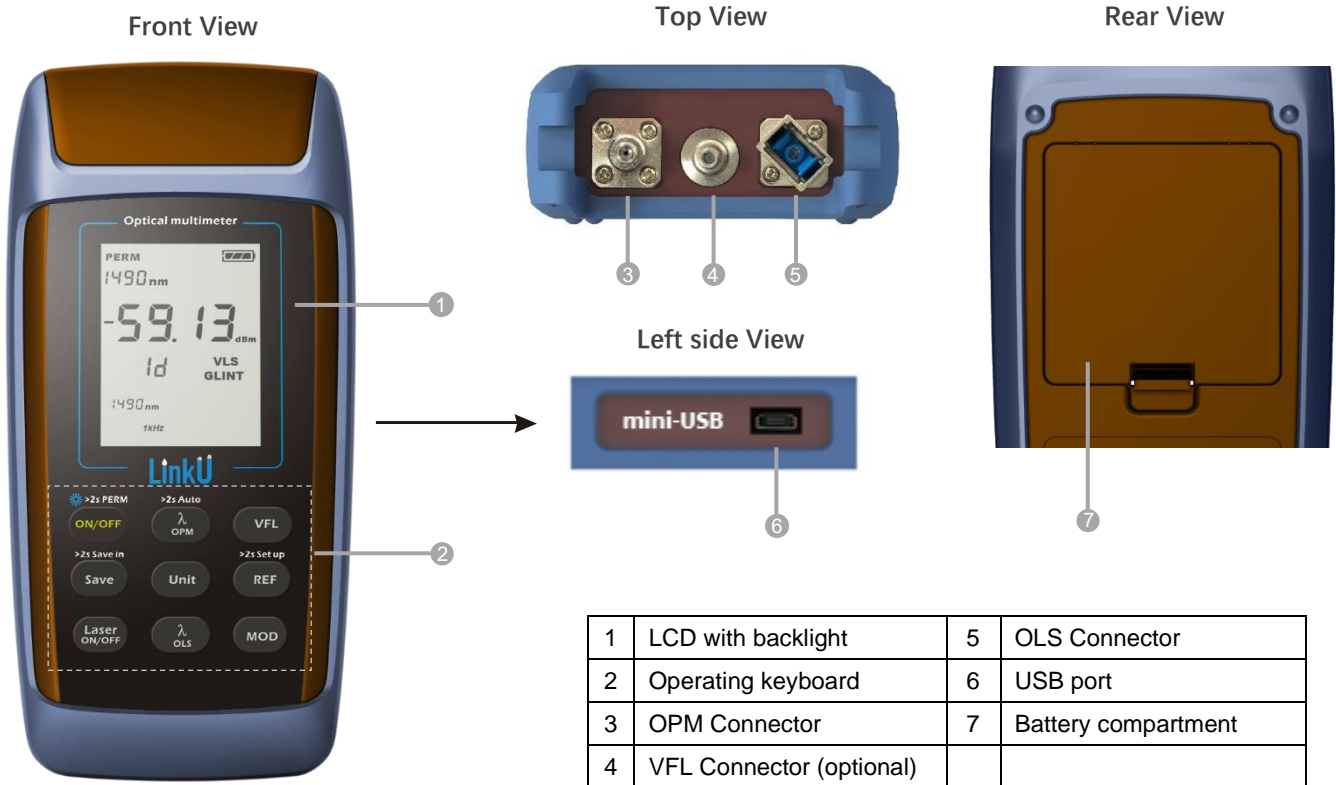
Maintenance

- Please disconnect the DC adapter/charger and cover the protective dust cap once you finish using.
- Please clean the optical connectors when they get dirty through use. Optical cleaning pads and anhydrous alcohol is recommended.
- If the instrument goes wrong, please give it to the nearest agent for repair. If the customer repairs without permission, the warranty service will be invalid.

※ The contents of this manual are subject to change without prior notice as a result of continuing improvements.
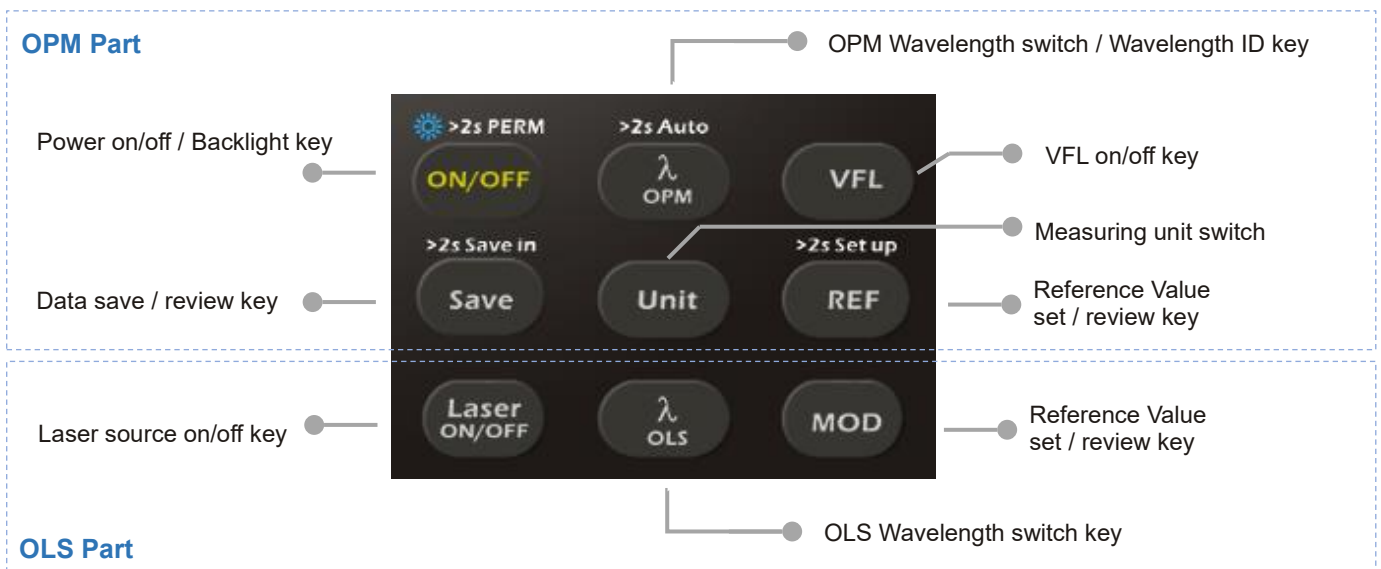
Overall Layout

Front View

Top View

Left side View

Rear View

1	LCD with backlight	5	OLS Connector
2	Operating keyboard	6	USB port
3	OPM Connector	7	Battery compartment
4	VFL Connector (optional)		

Key-board

OPM Part

OPM Wavelength switch / Wavelength ID key

Power on/off / Backlight key

VFL on/off key

Measuring unit switch

Data save / review key

Reference Value set / review key

Laser source on/off key

Reference Value set / review key

OLS Wavelength switch key

OLS Part

Power On/Off, Auto Power Off &. Backlight

Press **ON/OFF** to turn on the instrument and "auto power off" activated (if there is no key pressed in 10 minutes).

To cancel "auto power off", press **ON/OFF** for 2 seconds when power-on, and the word "PERM" will appear in the upper left corner of the screen.

When the instrument powered on, press **ON/OFF** to turn on/off the backlight.

Press **ON/OFF** for 2 seconds to power-off.

PERM

☀ >2s PERM
ON/OFF

OPM - Measuring Unit Switching

Press **Unit** key to switch the measuring unit (dBm/nW/uW/mW), The currently used unit will be saved when power off.

The measuring unit will turn to dB in REF mode.

dBm/dB
nW
uW
mW

Unit

OPM - Wavelength Switching

To measure the optical power correctly, user must use the same wavelength as the laser source outputs.

Press **λ OPM** key to switch the wavelength, the currently used wavelength will appear in the upper left corner of the screen.

850nm
1300nm
1310nm
1490nm
1550nm
1625nm

OPM - Wavelength ID Recognition

Long press **λ OPM** (>2s Auto) to activate the "Auto wavelength ID recognition" function ("ID" will appear in the center of the screen).

Long press again to exit "Auto wavelength ID recognition".

OPM - Reference Value Set/Review

Long press (REF) key for 2 seconds to set the current power value (in dBm) as reference value, and the measuring unit turns to dB.

The reference value can be reviewed by pressing (REF) key.

Press (Unit) to quit REF mode.

REF

dB

REF

OPM - Data Storage

Long press (Save) [>2s Save in] to save the currently measured optical power value (the number of stored records will flash 2 second in the screen).

Short press (Save) to review the stored records. Press (λ OPM) or (Unit) to review previous or next record.

1~1000

Save

Save

OLS - Laser Source On/Off

Press **Laser ON/OFF** key to turn on/off the laser source output. The wavelength in use will be displayed at the bottom of the screen.

OLS - Wavelength Switching & ID loading

Short press **λ OLS** key to switch the wavelength, the currently used wavelength will appear in the screen.

Long press (>2s) the key to load encrypted protocol in the output laser, and the wavelength in use will flash.

Long press the key again to cancel this function.

OLS - Modulation Signal Switching

Press **MOD** key to activate &. switch the modulation signal. The modulation signal in use will appear at the bottom of the screen.

270Hz
1KHz
2KHz

MOD

Visual Fault Locator On/Off

If the instrument comes with VFL module, press **VFL** key to activate the VFL.
(On → Glint → Off)

VLS
GLINT

VFL

Battery Charging

The instrument can be powered by rechargeable batteries. The battery indicator on the screen will flash when charging and will stop flashing when the batteries are fully charged.

Caution:

1. The rechargeable batteries must be put in the battery compartment when use the AC/DC adaptor for charging.

2. Do not charge the non-rechargeable batteries, or, the instrument would be damaged, and the warranty service will be invalid.

DC5V / 500mA