



# LSPM 1.0/2.0 Quick Start Guide

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The most recent version of this document and the full length LSPM User's Manual can be found at [www.lumiloop.de](http://www.lumiloop.de).

## 1 System Overview



The LSPM 1.0/2.0 system consists of a high-speed RF power meter, a 5V/3A power supply and a USB 2.0 cable. The LSPM Carrying Case contains the Lumiloop Software Package on a USB flash drive with manufacturer and optionally accredited calibration data.

The LUMILOOP TCP Server handles all USB communication for LSPM 1.0/2.0. The LUMILOOP GUI and other third party EMC software access the LUMILOOP TCP Server using SCPI commands which are exchanged via a TCP/IP connection.

## 2 Software Installation

1. Run the file `LUMILOOP_Installer.exe` found on the USB thumb drive and follow the installation instructions.
2. Copy the supplied calibration data into the directory selected during TCP Server and GUI installation. E.g., if the calibration data directory is `C:\ProgramFiles(x86)\LUMILOOP\cal\lspm` and the serial number of the LSPM is 42, please copy the whole directory named

`1v0sn42 / 2v0sn42` from the installation medium into the `cal\lspm` directory.

## 3 System Startup

1. Connect the included mains adapter to the LSPM.
2. Connect the LSPM to the host computer using the included USB cable.
3. Switch on the LSPM by setting the front panel switch to 1 and observe the green power LED starting to flash. If the host computer has access to the online Microsoft Windows Update, the USB driver will be installed automatically. Otherwise, the USB driver needs to be installed from the PC's hard drive.

```
LUMILOOP TCP Server, PM16 1.0
LUMILOOP TCP Server, 64 bit, built Jan 5 2024 07:28:00.
LUMILOOP Install Path: 'C:\Program Files (x86)\LUMILOOP'
Configuration File: 'C:\Users\lenovo\AppData\Local\LUMILOOP.ini'
----- Configuration Summary -----
Name | Value
-----|-----
LSPProbe
PORT | 10000
CAL_PATH | C:\Program Files (x86)\LUMILOOP\cal\lsprobe
SAVE_PATH | E:\LUMILOOP_DATA\lsprobe
LEGACY_IDN | 0
COM_PORT | 10
----- LSPM -----
PORT | 10001
CAL_PATH | C:\Program Files (x86)\LUMILOOP\cal\lspm
SAVE_PATH | E:\LUMILOOP_DATA\lspm
LEGACY_IDN | 0
----- LSProbe & LSPM -----
UPDATE_CHECK | 1
TIMEOUT_DIALOG | 1
----- LSPM Wideband Calibration Data Summary -----
LSPM Vers. | Check, Widebands | In-House Cal. |
| 1v0 | Pass: 0: 10, 20, 80, 100, 160 | 2023-06-06 |
----- LSProbe Calibration Data Summary -----
LSPProbe# | Check | In-House Cal. | Accr. Cal. |
| 1 | 1v2 | Pass: 0,2,3,4,6,7,(8,10,11) | 2016-09-05 | 2016-10-06 |
| 2 | 1v2 | Pass: 0,2,3,4,6,7,(8,10,11) | 2016-09-05 | 2016-10-06 |
----- LSPM Calibration Data Summary -----
LSPM# | Check | In-House Cal. | Accr. Cal. |
| 1 | 1v0 | Pass: 0,2,3 | 2018-10-11 | None |
| 2 | 1v0 | Pass: 0,2,3 | 2018-10-11 | None |
| 16 | 1v0 | Pass: 0,2,3 | 2018-12-07 | None |
PM16:1.0 cold plate temperature 19.95 degree C, cooling down / warming up to 20 degree C. Please wait...
----- LSPM Device List Summary -----
Device# | LSPM# | Hardware Rev. | Firmware |
| 0 | 16 | LSPM 1.0 | 19400 |
Type "fp"/"pm" to switch between LSProbe/LSPM console.
Type "h" or "h?" for list of terminal shortcut commands.
PM16:1.0_ready.
PM16:1.0>
```

4. Start the LUMILOOP TCP Server via the Windows Start menu and check that the green power LED is constantly on. The LUMILOOP TCP Server will display a list of detected calibration data sets and a list of all detected LSPM devices, as shown above. If this step fails, consult the LSPM User's Manual, Section 5.2.
5. Since the LUMILOOP TCP Server needs to open a TCP port, the system's firewall may ask for permission for network access. Access must

