



LSProbe 1.2 Quick Start Guide

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The most recent version of this document and the full length LSProbe 1.2 User's Manual can be found at <http://www.lumiloop.de>.

1 System Overview



The LSProbe 1.2 system consists of the optically powered E-Field Probe and the Computer Interface shown above. The Computer Interface is connected to the host computer via USB 2.0.

The LSProbe TCP Server handles all USB communication. The LSProbe GUI and other third party EMC software access the LSProbe 1.2 TCP using SCPI commands exchanged via a TCP/IP connection.

2 Software Installation

1. Install the National Instruments „32 bit LabVIEW 2012 Run Time Environment“ via download from <http://www.ni.com/download/labview-run-time-engine-2012/3433/en/> or start it directly from the supplied USB thumb drive.
2. Run `LSProbe_1.2_Installer.exe` found on the USB thumb drive and follow the installation instructions.
3. 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)\LSProbe1.2\cal` and the serial number of the E-Field Probe is 42, please copy the whole directory named `sn42` from the installation medium into the `cal` directory.

3 Making Optical Connections

NOTE: Every LSProbe 1.2 is delivered with plugged optical connectors and ready to use.



Sacrificial optical cables are supplied with each LSProbe E-Field Probe. Always use the E2000 connectors shown above for breaking and making the optical connection. The E2000 connectors of the sacrificial cable assembly include automatic shutters preventing contamination and resulting optical fiber burn-in. Nevertheless, all optical connectors must be kept in a perfectly clean condition at all times.

In case of a fiber connector burn-in only a pair of sacrificial cables need to be replaced, allowing for rapid and cost-effective fault recovery without requiring external service.

For detailed instructions, consult the LSProbe 1.2 User's Manual, Section 5.1.1.

4 System Startup

1. Connect the included mains adapter to the Computer Interface.
2. Connect the Computer Interface to the host computer using the included USB cable.
3. Switch on the Computer Interface setting the front panel switch to 1 and observe the green power LED starting to flash. If the host computer has access to the on-line Microsoft Windows Update, the USB driver will be installed automatically.

