



CI-250+ Quick Start Guide for LSProbe

LUMILOOP GmbH

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

1 System Overview



The CI-250+ LSProbe system consists of a laser-powered high-speed E-Field Probe, an integrated CI-250 Computer Interface, a single-board computer, an integrated touch-screen display, a power cord and a USB flash drive.

The CI-250+ Computer Interface is delivered with a pre-installed LUMILOOP TCP Server, LUMILOOP GUI, factory calibration data, and optionally, accredited calibration data.

The USB flash drive contains the LUMILOOP Windows Installer, including the LUMILOOP GUI for remote "+"Device access, as well as a copy of the calibration data.

Third-party EMC software communicates with CI-250+ LSProbes using SCPI commands exchanged over TCP/IP.

2 Making Optical Connections

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

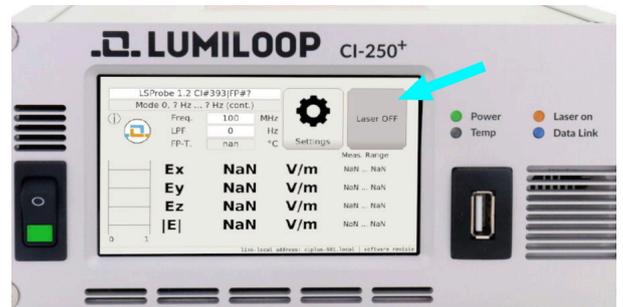


Sacrificial optical cable kits are supplied with each LSProbe E-Field Probe. Always use the E2000 connectors shown above for breaking and making the optical connection. The E2000 connectors of the sacrificial cable kit include automatic shutters preventing contamination and avoiding optical fiber burn-in. 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 User's Manual, Section 5.1.1.

3 System Startup

1. Connect the included mains power cord to the CI-250+.
2. Switch on the CI-250+ by setting the front panel switch to "green" and observe the green "Power" LED above the front USB port starting to flash. The LUMILOOP TCP Server and the LUMILOOP "+"Device GUI will start automatically. The green "Power" LED will light up constantly to show correct operation.



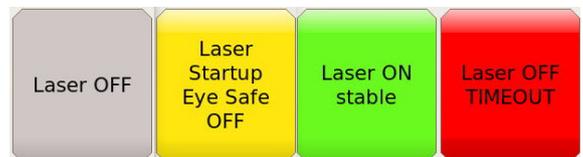
3. Additional LUMILOOP LSProbe and/or LSPM devices can be connected to the CI-250+ via USB.

4 LUMILOOP "+"Device GUI

The LUMILOOP "+"Device GUI is started automatically after system boot, communicating with the LUMILOOP TCP Server running in the background.

1. Tap on the labeled "Laser OFF" button to activate the supply laser and turn on the E-Field Probe. The Computer Interface's orange "Laser on" indicator LED will show the activity of the supply laser.

Warning: When the orange LED is flashing, Automatic Power Reduction (APR) is disabled. Interrupting optical connections is dangerous!



Proper operation is indicated in the GUI by displaying a green "Laser Status", continuously on "Power", "Laser on" and "Data Link" LEDs as shown below.

2. The GUI displays the E-field strength values for the x-, y-, z- axes, the isotropic field strength, maximum and minimum calibrated field strength for the set mode.

