

# LUMILOOP

LASER-POWERED SENSOR SYSTEMS



Datasheet

— LSFrame —

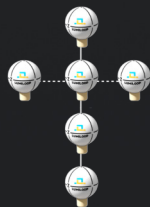
— Multi-Device Systems —

LSFrame is LUMILOOP's set of solutions for straight-forward and reliable integration of one or more LUMILOOP products in a 19 inch rack. LSFrame can be equipped with LUMILOOP's LSProbe Electric-Field Probes, LSPM RF Power Meters and all +-Devices.

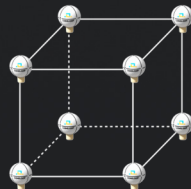
LUMILOOP compiled pre-defined sets for the most common measurement tasks according to international standards. Those well-thought-out LSFrame systems come with everything you need to start measuring in no time.

The flexible LSFrame portfolio also supports individual and expandable Multi-Device Systems. Contact **LUMILOOP support** if you need advice selecting the right components.

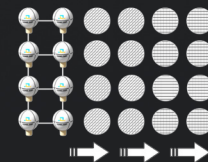
**Applications:**



**Four and Six Probes Setup**  
ISO 11451-2



**Eight Probes Setup**  
ISO 11451-5, 11452-11  
IEC 61000-4-21



**Field Uniformity Setup**  
IEC 61000-4-3

LUMILOOP delivers every LSFrame system fully assembled and tested, in a portable shallow 19 inch plastic rack. All LUMILOOP devices are controlled via the same software. Operating multiple and mixed device systems never was easier!

LUMILOOP offers an all-round carefree service of accredited calibration according to ISO 17025. This includes checking and inspection of your measuring equipment and performing the accredited calibration for you.

LUMILOOP recommends sending in complete systems with all fiber cables – all of them get inspected! On request, it is also possible to perform accredited calibration of single LSProbes without Computer Interface. Always contact **LUMILOOP support** before sending any equipment.

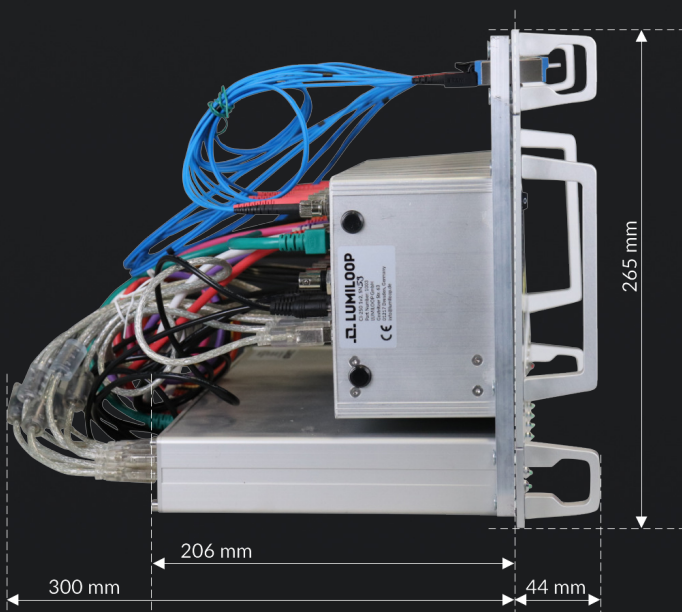


Your choice for ISO 11451-5, ISO 11452-11, IEC 61000-4-21, IEC 61000-4-3:

**Multiprobe System**  
8x LSProbe 1.2, Variante E: Part No. 3103  
8x LSProbe 2.0: Part No. 3107

**Scope of delivery:**

- 8x 1011, LSProbe 1.2 Field Probe Variant E or 8x 1020, LSProbe 2.0 Field Probe
- 8x 1304, Optical Fiber Extension Cable 15m
- 24x 1314, Sacrificial Cable Kit with E2000 couplers
- 8x 1300, LSProbe Single Field Probe Carrying Case Dimensions, HxWxD: 28 cm x 34 cm x 12.5 cm
- 8x 1003, Computer Interface CI-250 1.2
- 1x 1004, Lumiloop Software Package on USB flash drive
- 1x 3001, LSFrame 1.0 Basic, 1U
- 1x 3024, 19" Front Panel, 10x CI-250, 4U
- 1x 3021, 19" Front Panel, 10x E2000 Coupler, 1U
- 1x 3011, LSFrame 19" Case, 6 U  
Dimensions, HxWxD of 19" case: 31 cm x 55 cm x 39 cm
- Weight 19" case: 15,2 kg
- Connection to PC: 1x USB
- Power input: 1x IEC60320 C14, 100 ... 240 V
- 8x internal power supply, USB, RJ45 sync cables



**Multiprobe System 8x LSProbe, side view**

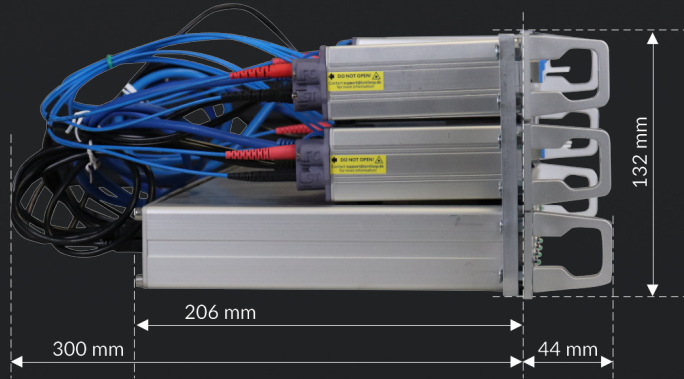


Your choice for ISO 11451-2 or IEC 61000-4-3:

**Multiprobe System with CI-250**  
 4x LSProbe 1.2, Variante E: Part No. 3101  
 4x LSProbe 2.0: Part No. 3105

Scope of delivery:

- 4x 1011, LSProbe 1.2 Field Probe Variant E or 4x 1020, LSProbe 2.0 Field Probe
- 4x 1304, Optical Fiber Extension Cable 15m
- 12x 1314, Sacrificial Cable Kit with E2000 couplers
- 4x 1300, LSProbe Single Field Probe Carrying Case Dimensions, HxWxD: 28 cm x 34 cm x 12.5 cm
- 4x 1003, Computer Interface CI-250 1.2
- 1x 1004, Lumiloop Software Package on USB flash drive
- 1x 3001, LSFrame 1.0 Basic, 1U
- 2x 3022, 19" Front Panel, 2x CI-250, 1U
- 1x 3011, LSFrame 19" Case for Product Integration, 3U Dimensions, HxWxD of 19" case: 19 cm x 55 cm x 39 cm
- Weight 19" case: 9,4 kg
- Connection to PC: 1x USB
- Power input: 1x IEC60320 C14, 100 ... 240 V
- 4x internal power supply, USB, RJ45 sync cables



Multiprobe System 4x LSProbe, side view

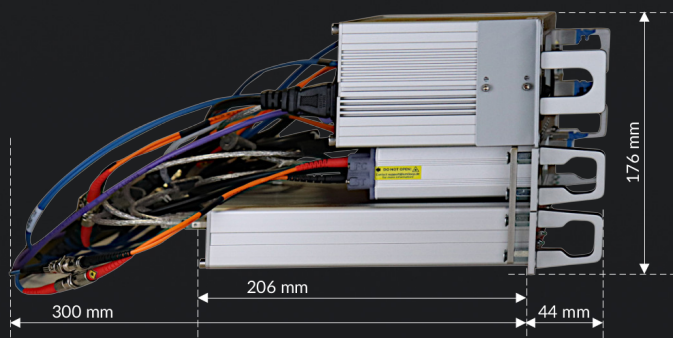


Your choice for ISO 11451-2 or IEC 61000-4-3 - with touchscreen and Ethernet interface:

**Multiprobe System with CI-250+**  
 4x LSProbe 1.2, Variante E: Part No. 3106  
 4x LSProbe 2.0: Part No. 3108

Scope of delivery:

- 4x 1011, LSProbe 1.2 Field Probe Variant E or 4x 1020, LSProbe 2.0 Field Probe
- 4x 1304, Optical Fiber Extension Cable 15m
- 12x 1314, Sacrificial Cable Kit with E2000 couplers
- 4x 1300, LSProbe Single Field Probe Carrying Case Dimensions, HxWxD: 28 cm x 34 cm x 12.5 cm
- 4x 1003, Computer Interface CI-250 1.2
- 1x 1005, Computer Interface CI-250+ UPGRADE
- 1x 1004, Lumiloop Software Package on USB flash drive
- 1x 3001, LSFrame 1.0 Basic, 1U
- 1x 3022, 19" Front Panel, 2x LSProbe Computer Interface, 1U
- 1x 3027, 19" Rack Mount Kit, 1xCI-250+ and 1xCI-250, 2U
- 1x 3011, LSFrame 19" Case for Product Integration, 4U Dimensions, HxWxD: 23 cm x 55 cm x 39 cm
- Weight 19" case: 12 kg
- Connection to PC: Gigabit Ethernet
- Power input: 1x IEC60320 C14, 100 ... 240 V
- 4x internal power supply, USB, RJ45 sync cables



Multiprobe System 4x LSProbe with CI-250+, side view

## Multi-Device Examples

Many multiple devices can be arranged and synchronized to fulfill your measurement need. Combine multiple LSProbes E-Field Probes and LSPM RF Power Meter. Check our website for the numerous combination possibilities. Upto 2 devices no LSFrame Basic is needed. The two devices can be connected directly to each other via USB cable. For more than three devices we highly recommend the LSFrame Basic for synchronization and power supply.

## LSFrame 1.0 Basic

The LSFrame 1.0 Basic Product Integration Frame allows for Multi-Device Systems up to ten LSProbe E-Field Probes or LSPM RF Powermeters. The USB controlled system comes with a 10x power supply and synchronization unit. LSFrame 1.0 Basic synchronizes multiple LUMILOOP devices in a variety of mixed setup configurations.

- 10x DC power output 5 V, 3 A
- 10x USB 3.1 Hub, host connector: USB B
- 10x Synchronisation connector, RJ45
- Front LED indicator for statistics master
- Dimensions, HxWxD: 44 mm x 483 mm x 250 mm
- Power input: 100 ... 240 V, IEC 60320 C14 connector

## LSFrame Multiprobe Accessories

### Fiber Connector Cleaning Kit



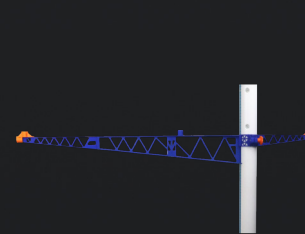
- optical fiber microscope
- lint-free cassette cleaner wipes
- unfilled isopropyl alcohol (IPA) pipette bottle
- spare FC/ST dust caps and two E2000 locking caps
- part no. 1319

### LSProbe Floor Probe Stand



- metal free base and pole
- quick mount/release
- optimized for IEC 61000-4-3 16 point field uniformity validation
- perfect suitable for ISO 11451-5 reverb chamber EMC testing
- part no. 1316

### Probe Holder for 3x LSProbes



- probe holder for three probes in one level
- according to ISO 11451-2
- no metal parts
- part no. 1382



Rack-Mount Kit for  
CI-250+ and LSPM 1.0,  
Part No. 3028



Scan to see all LSFrame Rack-Mount Kits!



LSFrame 1.0 front view and back view,  
Part No. 3001

# LUMILOOP

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Made in Germany



Register your LUMILOOP device and get a free one year warranty extension!

[lumiloop.de/support/register](http://lumiloop.de/support/register)