

PRODUCT LEAFLET
LABRAIL WITH LABSPION



The rail solution allows easy repositioning of the sensor. The sensor travels securely on the up to 16 m long rail along the optical axis. Once the light source is in place there is no need for further alignment of the sensor.

GO ANYWHERE IN 5 SECONDS

- Works seamlessly with LabSpion
- Never measure distance manually again
- Repositioning of sensor in only 5 seconds
- Perfect alignment every time
- No cables
- Free your floor space
- Automatic positioning
- Easy suspension from ceiling

The standard rail is 12 m long and secures optimal alignment every time



Upgrade your LabSpion: Replace the tripod with a LabRail system



The LabRail connects to the LabSpion mainboard with a single ethernet cable



The integrated laser measures the distance to the light source automatically





KEY ADVANTAGES

- Ideal for LabSpion with any sensor. The LabRail system combines a full-size goniometer with a rail-based sensor system
- Keeps your spectrometer sensor perfectly aligned with the optical axis at all times
- Automatically optimizes the distance from the sensor to the goniometer according to CIE S 025/E:2015 guidelines and the signal-to-noise ratio
- Sensor movement along the rail is motorized and sensor distance can be optimized for any size of light source
- Ascertains that distance input to data processing is always correct
- Distance can be set manually via the software and the sensor will fly into position
- All power feed and data transfer goes through the rail itself. No loose cords
- Owners of LabSpion systems may replace the standard tripod arrangement with the rail system upgrade kit.

TECHNICAL SPECIFICATIONS

Sensor distance range	35 cm to 12,000 cm (standard)
Sensor distance setup	Automatic
Power supply input	90 to 260 VAC, 50/60 Hz
Power	8 W idle / 90 W peak

A standard LabRail set consists of:

- 8 pcs black anodised aluminium rail sections, each. 1.5 m
- 7 pcs black powder coated rail connectors
- 1 pcs rail end
- 1 pcs power/data injector unit
- 1 pcs dolly with expandable arm
- 1 pcs Ethernet cable
- Set of suspension hooks and steel wires

INSTALLATION

- Install the LabSpion goniometer and the Light Inspector software according to instructions
- 12 meters (8 x 1.5 m) of rail is standard - but both shorter and longer rails are available
- Connect all rail sections with the brackets
- Hook the suspension steel wires to your lab ceiling (12 m rail equals 9 wire sets and 18 hooks)
- Suspend the rail from the wire via griplock wire fasteners (3-4 persons needed). Level the rail and cut off excessive wire ends. Cross every other wire set to stabilize sideways
- Install the power/data injector unit at one end of the rail and connect to standard sensor input on the goniometer base with the Ethernet cable
- Install sensor dolly on the rail and fix rail end stop
- Install the LabSensor on the dolly on the expandable arm. Expand/retract arm to level with the optical axis of the goniometer.
- Make a measurement