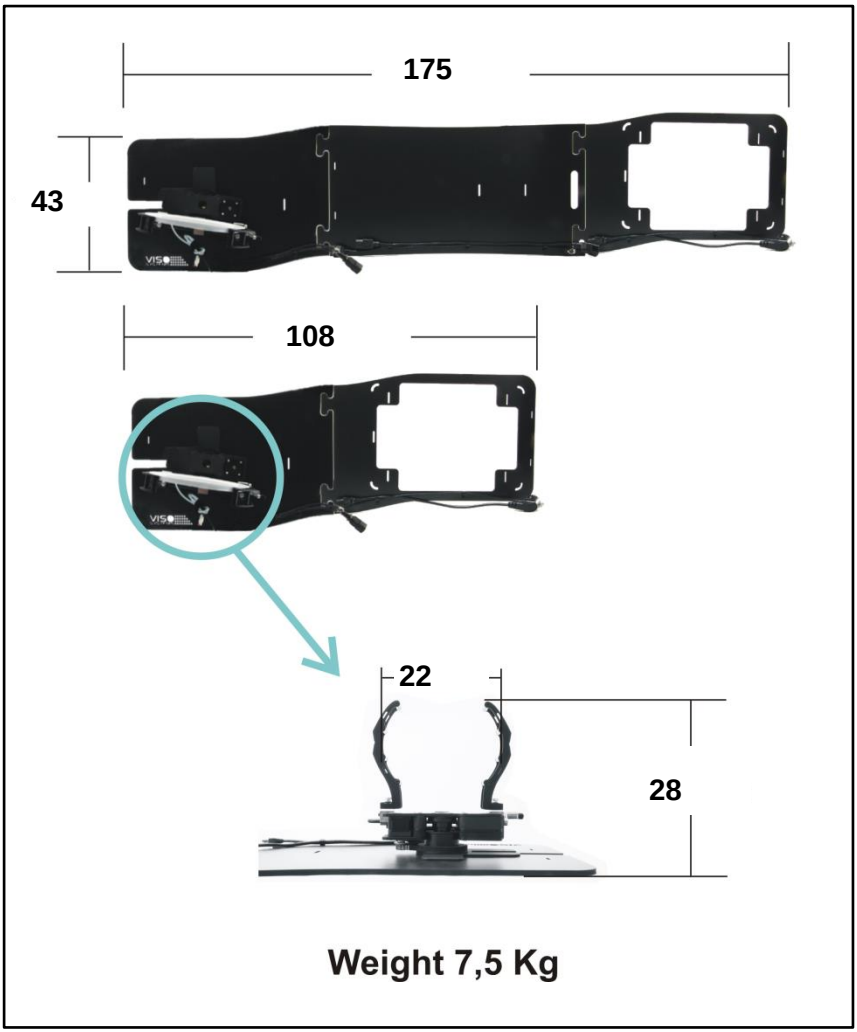
LightSpion Extender

User guide

Last edited: 2015-08-26

VISO SYSTEMS

Dimensions



Contents

Safety Information

Warning! This product is not for household use.

Read this manual before installing and operating the controller, follow the safety warnings listed below, and study all the cautions in the manual.

Preventing electric shocks

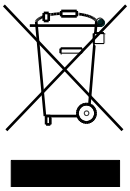
Make sure the power supply is always grounded.

Use a source of AC power that complies with the local building and electrical codes, that has both overload and ground-fault protection.

If the controller or the power supply are in any way damaged, defective, wet, or show signs of overheating, disconnect the power supply from the AC power and contact Viso Service for assistance.

Do not install or use the device outdoors. Do not spray with or immerse in water or any other liquid.

Do not remove any covers or attempt to repair the controller or the power supply. Refer any service to Viso.



Disposing of this product

Viso products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its lifetime. Your supplier can give details of local arrangements for the disposal of Viso products.

Introduction

About the LightSpion Extender

The LightSpion Extender expands the ability of LightSpion to measure the light sources with a diameter of up to 220mm. The device is easily connected to the previously installed LightSpion and gets detected by the Light Inspector software automatically.

Package contents

The LightSpion package contains the following items:

- Goniometer base
- Centre plate
- LightSpion base plate

About this document

These guidelines describe the installation process of the LightSpion Extender and the alignment of light sources to be measured.

Installation

Software installation

Light Inspector software

Before the usage of the LightSpion Extender, the “Viso Light Inspector” software version 3.69 or higher must be installed.

LightSpion firmware

During the installation of the “Viso Light Inspector” software the firmware of the LightSpion is also being checked. It is automatically updated to the latest version in order to enable the most efficient communication with the LightSpion Extender.

Use the following link to download the latest version: http://www.lightdataserver.com/software/Viso%20Systems/LightInspector.htm

You can always check the installed version at Help->About. The firmware version can also be checked at Help->Firmware information.

Setting up the Extender

The LightSpion Extender comes in 3 parts:

- Goniometer base
- Centre plate
- LightSpion base plate

The Extender can be set up in 2 ways.

Long configuration

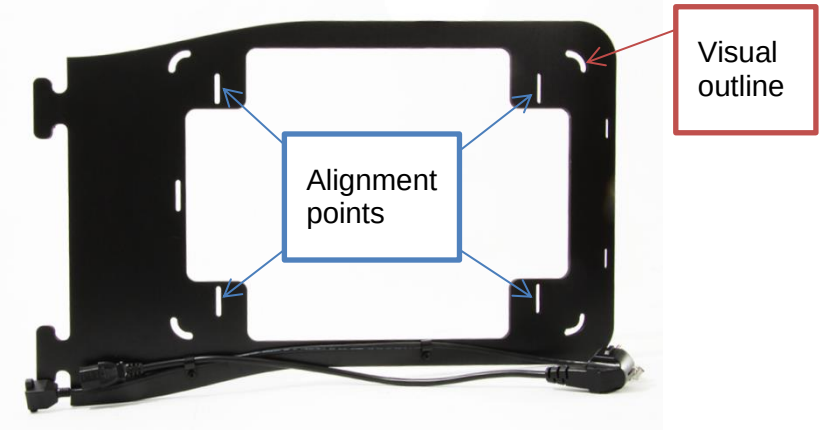
The full goniometer-sensor length of 181cm allows the measurements of light sources up to 220mm in diameter.

Short configuration

The reduced goniometer-sensor length of 114 cm allows the measurements of light sources up to 135mm in diameter. This configuration can be useful when measuring smaller light sources and/or of low power, where a shorter distance will increase the sensitivity of the sensor.

LightSpion alignment

The Extender base plate comes with alignment points and a visual outline for the LightSpion ensuring that the LightSpion is fixed at the right location for accurate measurements.



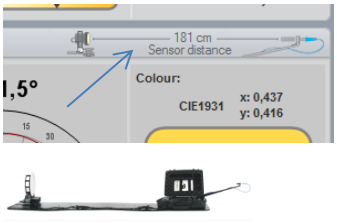
The alignment points clicks into bottom of the LightSpion as shown below.

Connecting the Extender

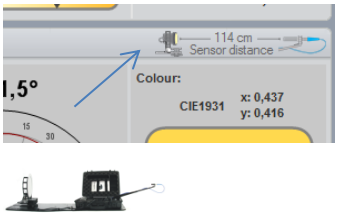
The extender's connection is done via unplugging the built-in goniometer and connecting the RJ45 of the Extender goniometer.

The power going to the built-in goniometer lamp holder must also be unplugged and connected to the Extender instead.

The Light Inspector software will automatically detect the Extender. Various configurations can be seen in the photometric window.

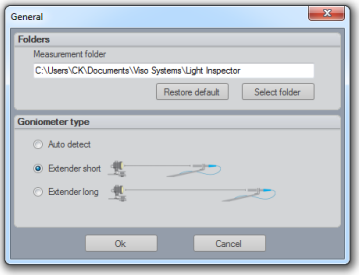


Long configuration



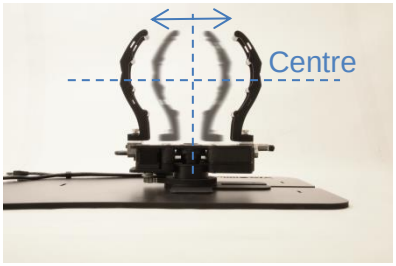
Short configuration

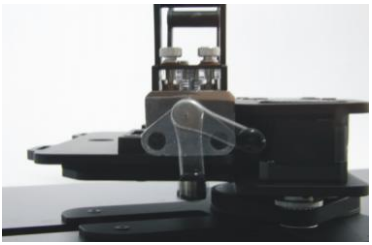
In case the system does not detect the Extender due to an outdated hardware it is possible to select it manually in Setup->Options.



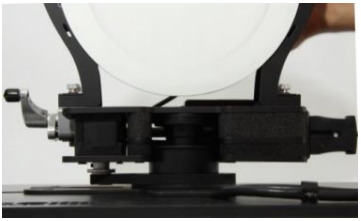
Lamp alignment

The vertical alignment of the lamp is done automatically by the centred twin clamp holder.

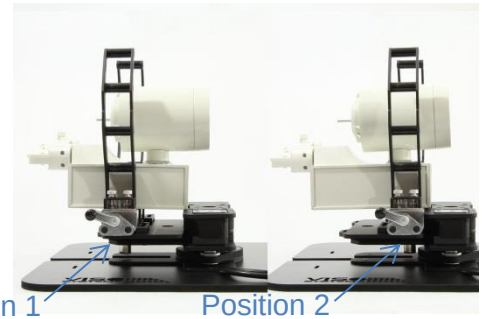




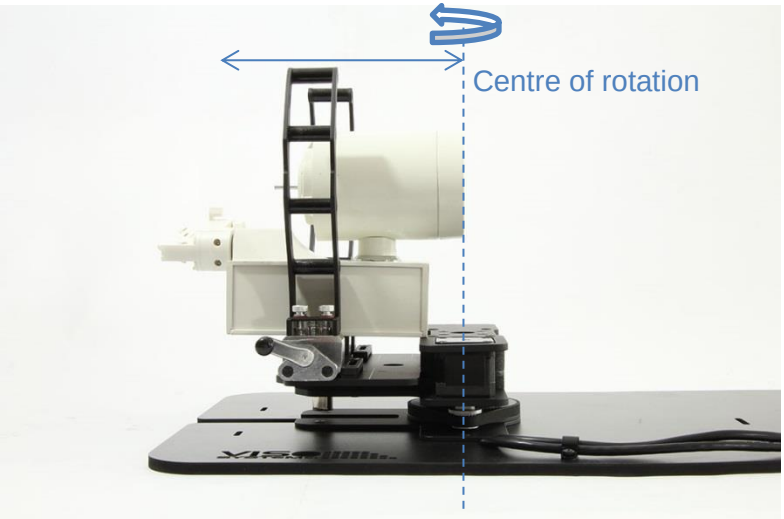
The clamps can also be inverted to fix smaller lamps.



The location of the holder can also be move to facilitate different lamp types.



The horizontal position of the lamp should be placed in such a way so that the illuminating part is at the centre of rotation, as shown below.

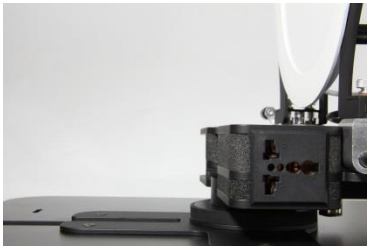


Failing to align the lamp to the centre of rotation can affect the accuracy of the peak intensity value and the beam angle.

The flux value is not affected by the incorrect horizontal placement.

Lamp connection

The measured lamp is connected using a all-purpose power connector placed on the side of the goniometer base, as shown below.

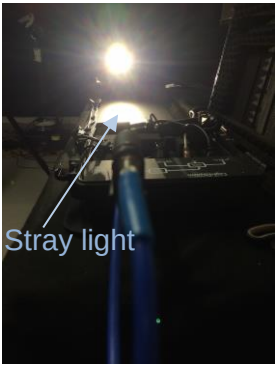


Making measurements

The LightSpion Extender measurements are done in the exact same way as in the case of LightSpion.

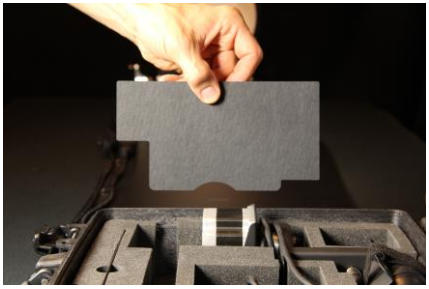
Please refer to the LightSpion user manual for further details.

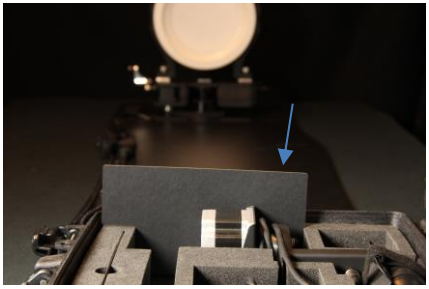
Stray Light Corrections



Sometimes when measuring particular lamps you can also observe glares. They are reflected from the black surface of the extender plate, enhancing the amount of the light detected by the sensor. Such an example is shown in the picture to the right:

To eliminate the unnecessary illumination we have designed a special stray light blockage. Simply slide it down according to the way it is shown in the pictures below.





Specifications

Physical dimensions

Shipping dimensions (L x W x H) ..... 175 (108) x 43 x 28 cm

Shipping weight ..... 3 Kg

Dimensions (L x W x H) ..... 175 (108) x 43 x 28 cm

Weight ..... 2.5 Kg

Sensor distance ..... 115 and 182 cm

Light sources diameter range ..... 0 - 220 mm

Light source maximum weight ..... 4 Kg

Ordering information

LightSpion Extender ..... P/N EXLIGSP001