

# LightSpion **Extender**

## User guide

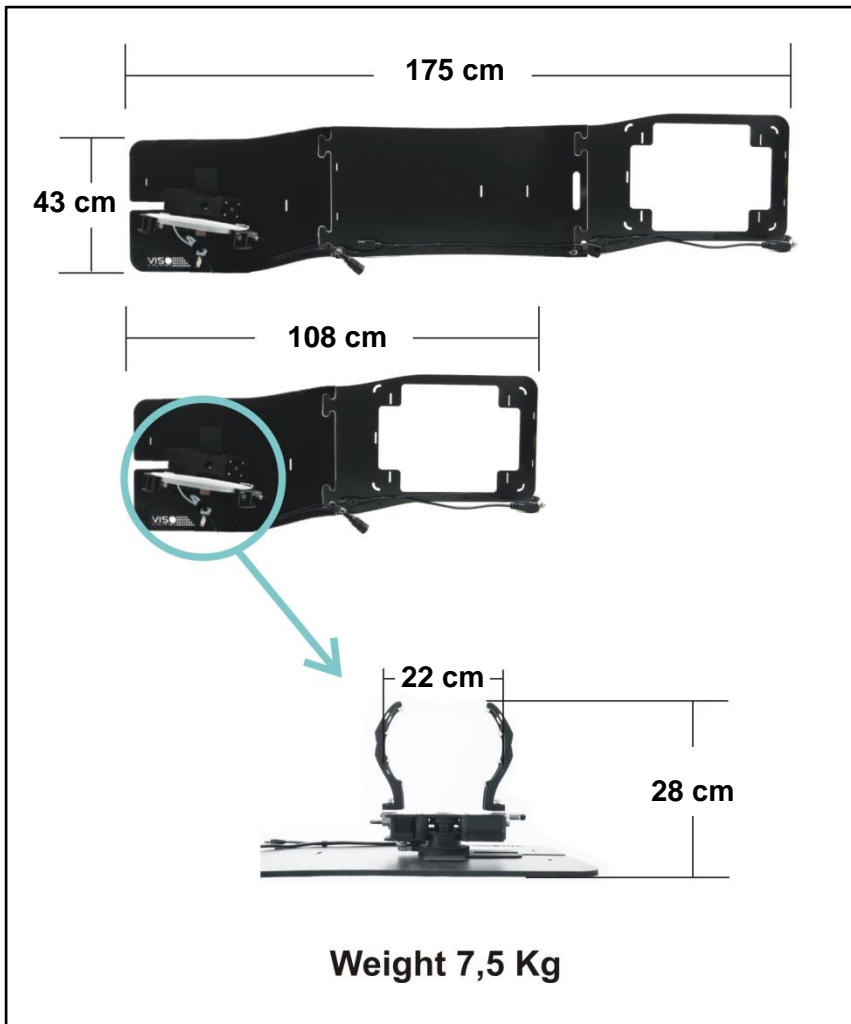


**Preliminary**

Last edited: 2014-04-24

**VISO**  
SYSTEMS

# Dimensions



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# Safety Information

***Warning! This product is not for household use.***

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

## Preventing electric shocks



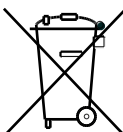
Always ground (earth) the power supply.

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

If the controller or power supply are in any way damaged, defective, wet, or show signs of overheating, disconnect the power supply from 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 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 life. Your supplier can give details of local arrangements for the disposal of Viso products.

# Introduction

## About the LightSpion Extender

The LightSpion Extender allows to measure light sources up-to 220mm in diameter using a existing LightSpion measurement system. The Extender is simply connected to the LightSpion and the Light Inspector software detects it automatically.

## Package contents



The LightSpion package contains the following items.

- Goniometer base
- Center plate
- LightSpion base plate

## **About this document**

This guide describes how to install and use the LightSpion Extender, and how to align light sources to be measured.

# Installation

## Software installation

### Light Inspector software

Before you can start using the LightSpion Extender, the “Viso Light Inspector” software version 3.69 or higher must be installed to support the LightSpion Extender.

### LightSpion firmware

During software installation of the “Viso Light Inspector” software is the firmware of the LightSpion also checked and automatically updated to version 2.02 or higher to enable 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 version installed by selecting Help->About. The firmware version can also be checked by selecting Help->Firmware information.

## Setting up the Extender

The LightSpion Extender comes in 3 parts:

- Goniometer base
- Center plate
- LightSpion base plate

The Extender can be set up in 2 ways.

### Long configuration



Full length of 181cm from goniometer to sensor allowing for measurement of light sources up-to 220mm in diameter.

### Short configuration

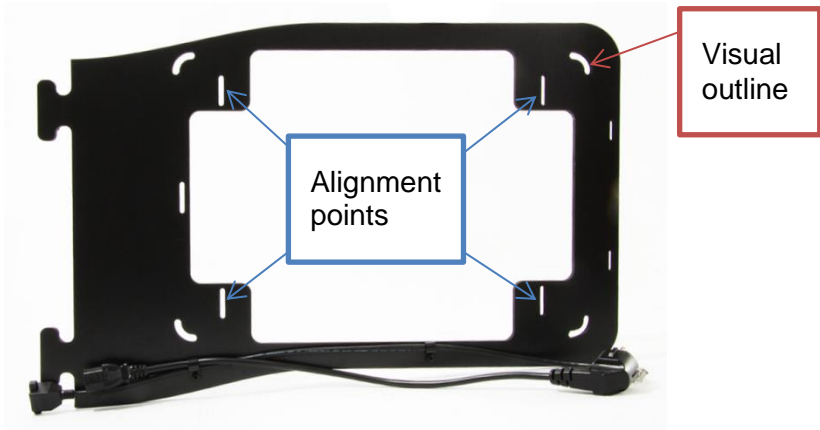


Reduced length of 114 cm from goniometer to sensor allowing for measurement of light sources up-to 135mm in diameter. This configuration can be useful when measuring low power and smaller light sources where a shorter distance will increase the sensitivity of the sensor.



## 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.



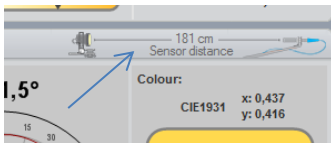
## Connecting the Extender

Connecting the extender is simply done by unplugging the build-in goniometer and connecting the RJ45 of the Extender goniometer.

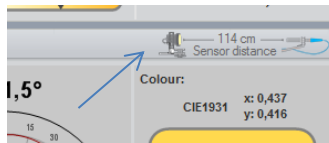
The power going to the build-in goniometer lamp holder must also be unplugged and power to Extender is connected instead.



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

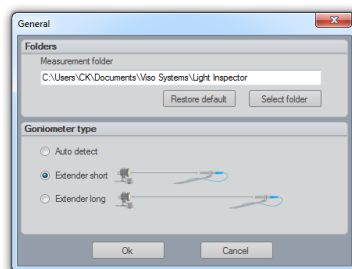


*Long configuration*



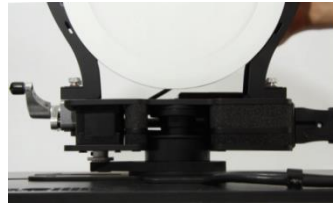
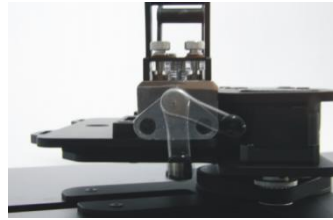
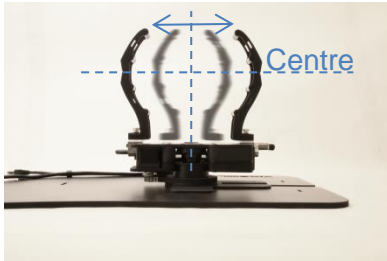
*Short configuration*

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

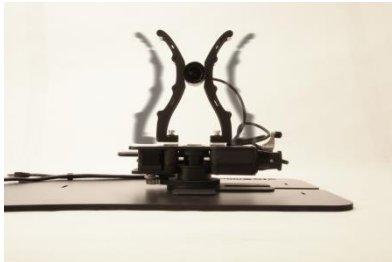


## Lamp alignment

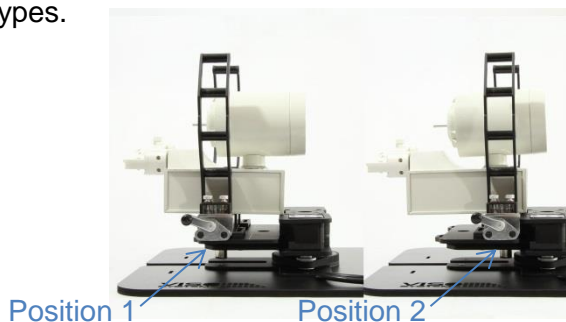
The vertical alignment of the lamp is done atomically by the centred twin clamp holder and due to the shape of the lamps.



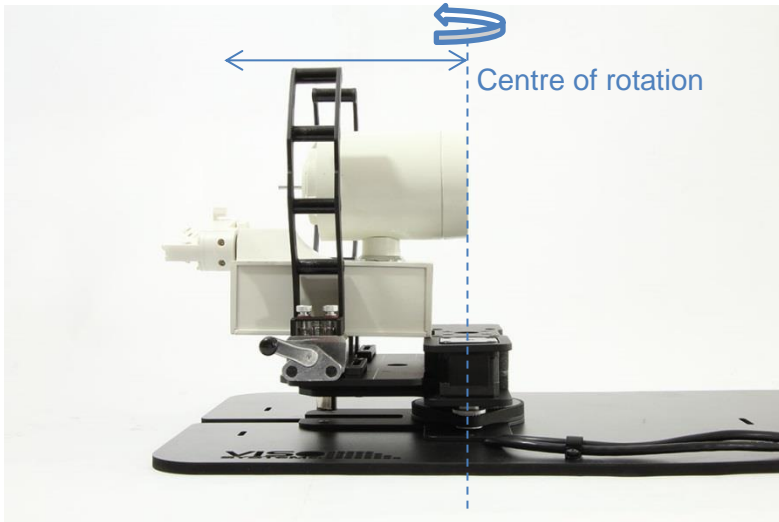
The clamps can also be inverted enabling smaller lamps easily to be fixed.



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



The horizontal position of the lamp should be placed so the illuminating part is at the centre of rotation as shown below.

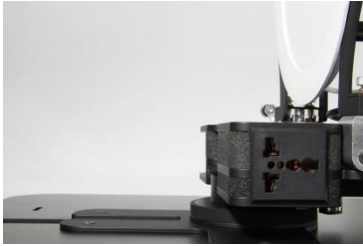


Failing to align the lamp to the centre of rotation can affect the accuracy of peak candela value and the beam angle.

The lumen value is not noticeably affected by incorrect horizontal placement.

## Lamp connection

The lamp to be measured is simply connected using the universal power connector placed on the side of the goniometer base, as shown below.



# Making measurements

Measurement made using the LightSpion Extender is done in the exact same way as the when using the LightSpion without the Extender attached.

Therefore please refer to the LightSpion user manual for further details.

# Specifications

Coming soon

## Ordering information

LightSpion Extender ..... P/N EXLIGSP001