

VISO SYSTEMS LabTarget

User Manual

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Congratulations on purchasing your new Viso Systems product. Before using this product, please read our Safety Information.

This manual contains all the feature operating information and troubleshooting necessary to install and operate your new Viso Systems product. Please review this manual thoroughly to ensure proper installation and operation.

For news, Q&A and support at Viso Systems, visit our website at www.visosystems.com

Other manuals in this series can be downloaded from www.visosystem.com/manuals. Viso manual are subject to change without notice. Details and may vary from those show.

Safety Information

Warning! This product is not for household use.

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

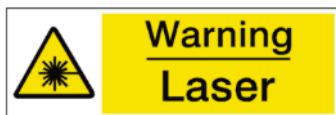
Preventing electric shocks



The LabTarget is power via Ethernet cables. Make sure the powering unit is always grounded.

If the unit or its power supply is in any way damaged, defective, wet, or show signs of overheating, disconnect 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 unit. Refer any service to Viso.



Laser warning

The product contains a red laser (Class 2 laser product, $\lambda = 650 \text{ nm}$, $<1 \text{ mW}$, EN 60825-1:2007). **Caution: Do not stare directly into the laser beam or mirrored reflections of it.**



Disposing of this Product

Viso Systems products are supplied in compliance with Directive 2012/19/EU on waste - electrical and electronic equipment (WEEE) together with the RoHS Directive 2011/65/EU with amendments 2015/863. 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 Systems products.

Introduction

About this document

These guidelines describe the installation process of the LabTarget.

About the LabTarget

The special Viso accessory “LabTarget” is an laser-based positioning element that is supposed to installed in the ceiling over a Viso goniometer. The unit emits a red, vertical beam cross that is centred in the vertical rotation axis of the goniometer. Hence, the laser beam makes it easy to adjust the photometrical centre of any light source before measurement.

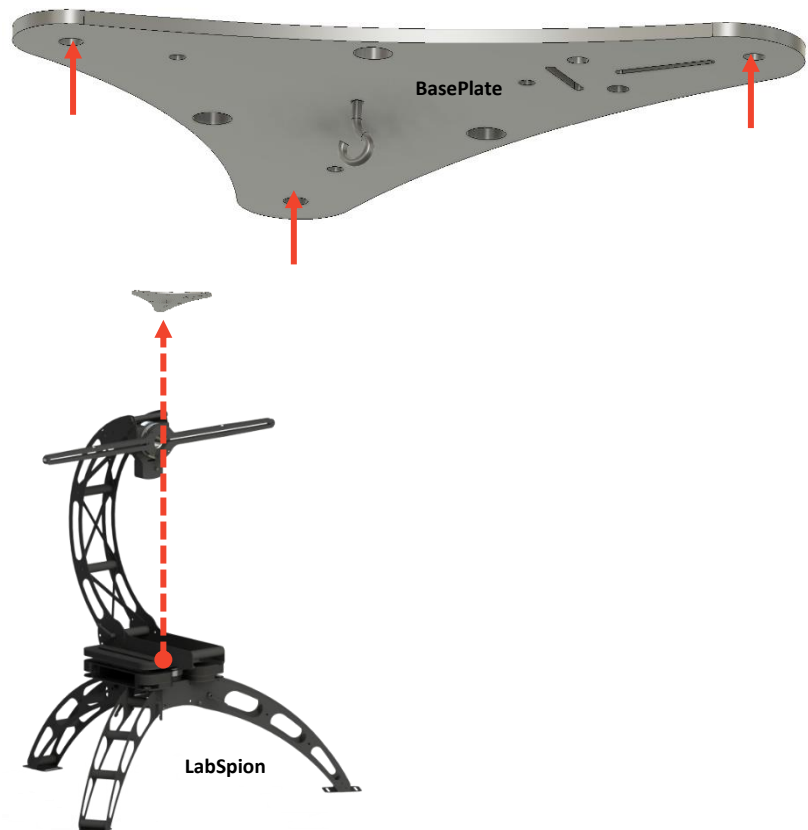
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LabTarget Installation Procedure

Step 1

Install the base plate in the ceiling just above the Viso goniometer. The base plate should be approximately¹ over goniometer rotational center with screws through the three peripheral holes:



Step 2

Suspend the pendulum from the small hook on the base plate. The pendulum hangs through the hole in the goniometer – the string thus marking the rotational axis of the goniometer. Adjust the string to make the pendulum hang just a few millimeters above floor level.

Make a mark on the floor where the tip of the pendulum points to.

If necessary, move the whole goniometer to the floor position where the string is exactly in the rotational center.

Step 3

Remove the pendulum and the small hook

¹ If the goniometer is fixed firmly to a table or a floor, mount the pendulum first to ease positioning.

Step 4

Mount the laser module with 3 pcs screws M4x6

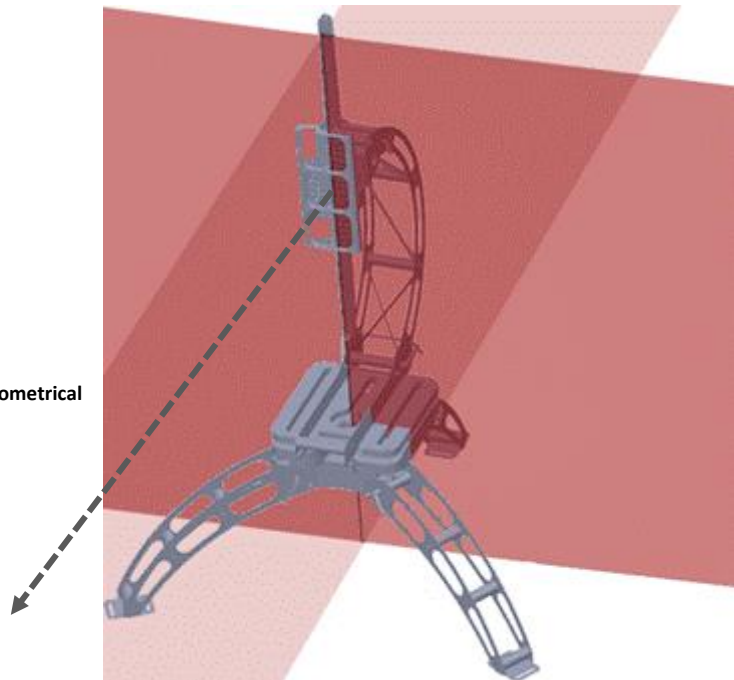


Step 5

Rotate the module with your fingertips to make one of the laser lines parallel with the photometrical axis (gamma 0):

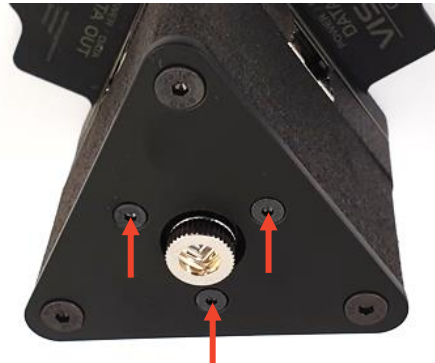


Photometrical
axis



Step 6

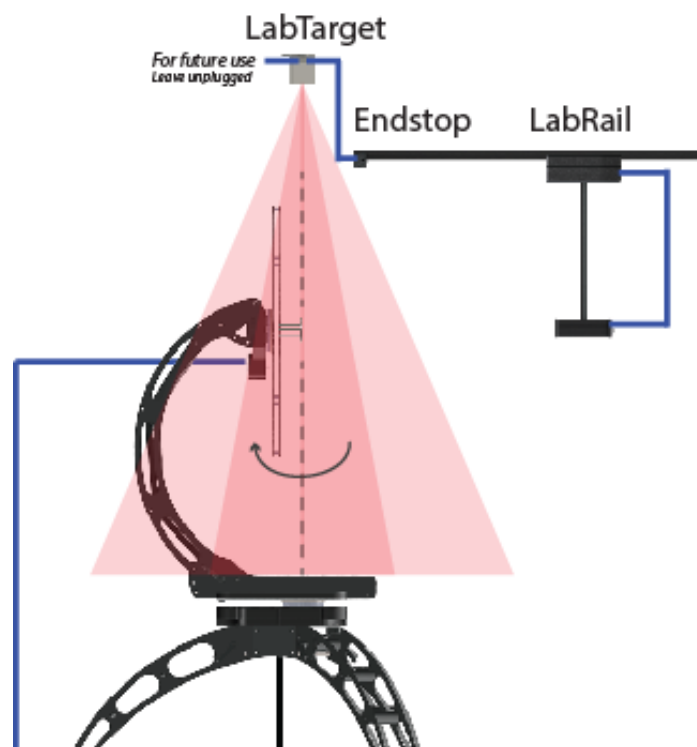
Use an Allen key in the three middle screws to adjust the laser vertically to hit the mark on the floor



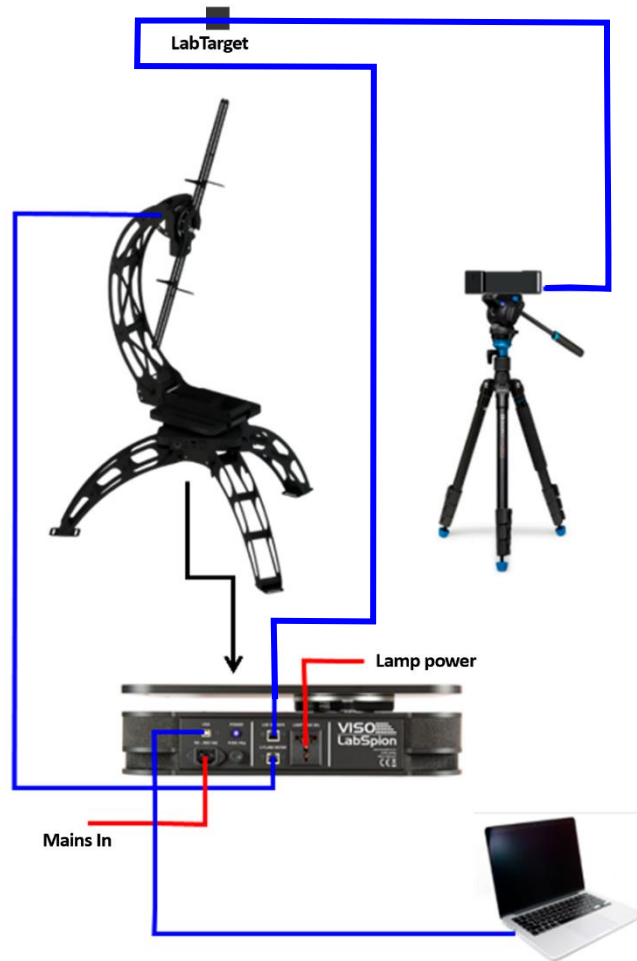
Step 7

Connect the laser module to your system using ethernet cables.

If you own a **LabRail** system, just connect the laser module to the RJ45 plug on the endstop of the Rail (connect to port 1 or port 2, both choices are ok):



If you own a standard **LabSpion/BaseSpion**, Daisy-chain LabTarget with your sensor in this way:



Technical Specifications

Power and data	Via Ethernet RJ45
Dimensions, L*W*H	
Materials	Powder coated steel housing
Weight	
Laser Class	Class 2 laser product $\lambda = 650 \text{ nm}$, $<1 \text{ mW}$, EN 60825-1:2007)