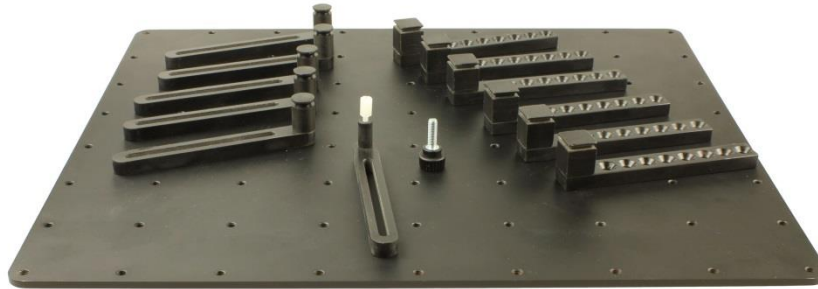


# Modular Base Plate for DLS

## Quick Start Guide



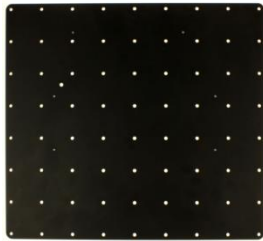

What is in the box.....	2
What does it do.....	3
How to build a setup .....	4
Help and troubleshooting .....	7
Technical specifications .....	8
Declaration of conformity .....	9

## What is in the box

The box contains the Modular Base Plate for DLS and all accessories to fit it to a Diode Laser Station.



### Box content checklist

Quantity [1]	Description	Photo	Identifier [2]
1	Base plate		
1	Set of fixing accessories: 4 x Adjuster Bracket Square  4 x Adjuster Bracket Round  1 x Adjuster Bracket Support  15 x Thumb Screw M5 x 12  1 x hex screw M2.5 x 6		
	This "Modular Base Plate for DLS- Quick Start Guide"		

[1] Quantity of items registered in the package

[2] Identifier used in references in this document.

## What does it do

The Modular Base Plate for DLS is a new multi-purpose baseplate to replace the one shipped in the first generation of Diode Laser Station.

The Modular Base Plate for DLS has a redesigned fixture system using adapter brackets on a grid. The brackets are made of durable plastics and isolate printed circuit boards from the baseplate.

The brackets provide a versatile application of supports of targets with a large range of shapes and sizes. The new baseplate more than doubles the working area.

The Modular Base Plate for DLS has synthetic pads underneath to isolate the baseplate from other metal surfaces and from vibrations.



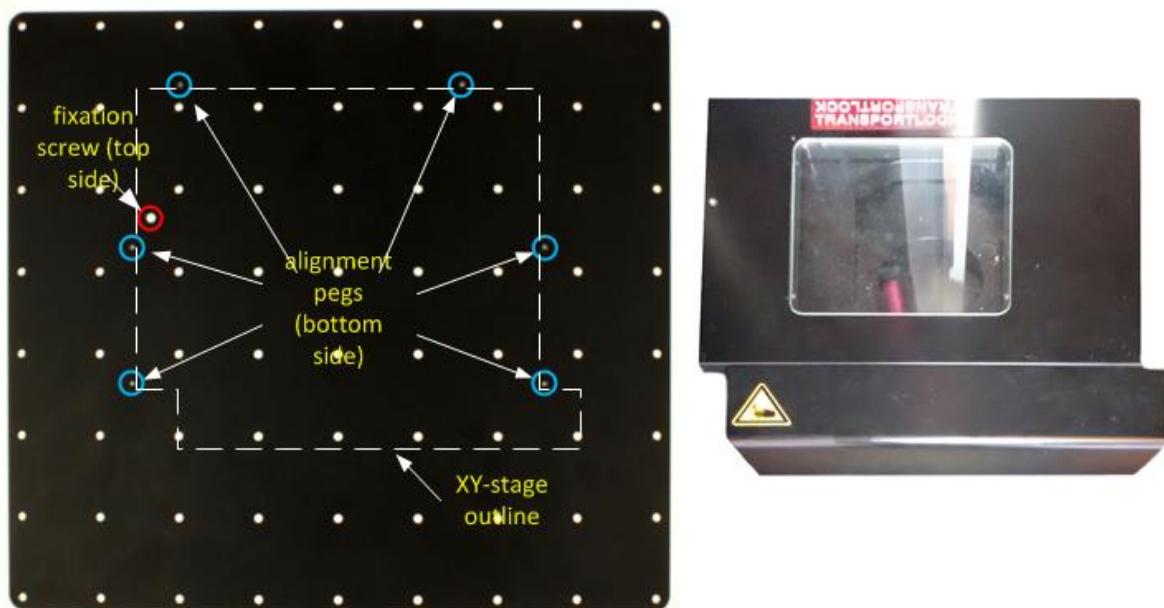
*Figure 1 The fixture system based on adapter brackets on a positioning grid.*

# How to build a setup

## Upgrading a Diode Laser Station setup

The previous, smaller baseplate was placed on top of the XY-stage platform, and was aligned using peg in the bottom.

1. Lift and remove the current baseplate from the XY-stage.
2. Place the upgrade baseplate over the XY-stage.
3. Use the alignment pegs to position the upgrade baseplate exactly over the XY-stage outline.
4. Insert and tighten the countersunk fixation screw to lock the baseplate.

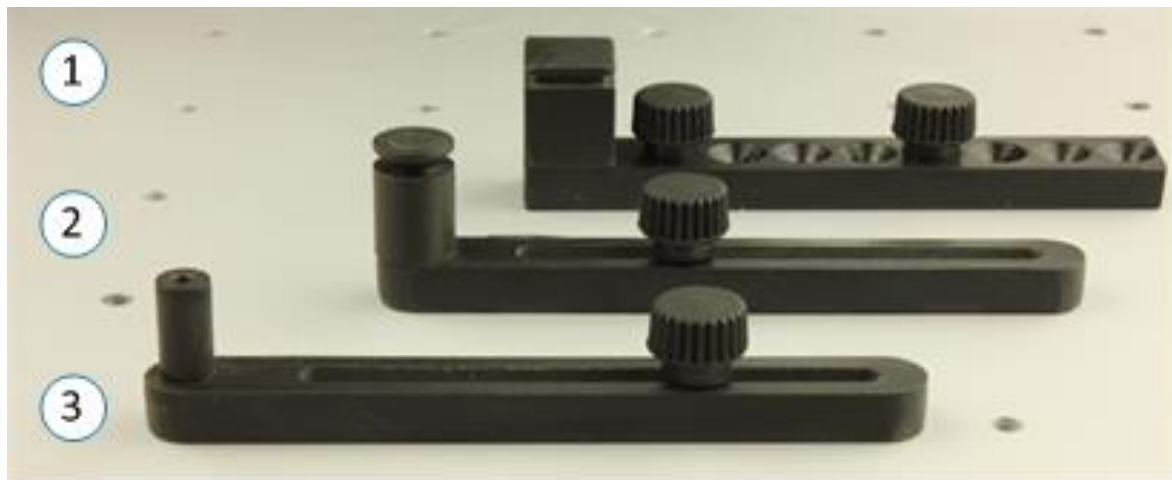


*Figure 2 Placement and alignment of the baseplate onto the XY-stage.*

## Fixing a target on the baseplate

The Modular Base Plate for DLS has three types of adjuster brackets:

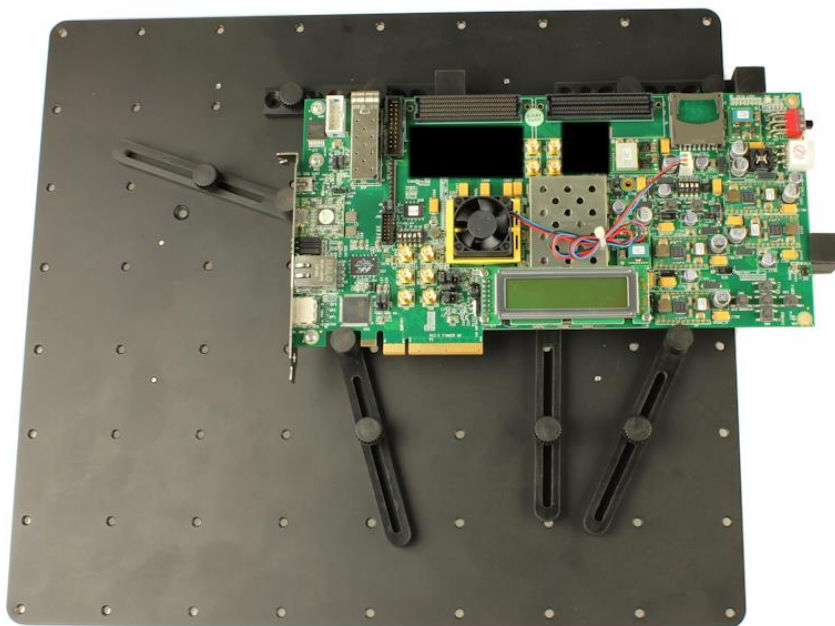
- Square, to create stable reference corners
- Round, to fix boards from any angle
- Support, to support boards from underneath and use with existing screw holes.



*Figure 3 Adjuster brackets of type square (1), round (2) and support (3).*

To create a good fixture, do the following:

1. Use two (or three) square adjuster brackets to create a fixed edge or corner, and secure each bracket with two thumb screws.
2. Place the object against the reference corner.
3. Add remaining round adjuster brackets at opposite locations against the object, and fix each of them with thumb screws as required.



*Figure 4 Example of fixing a printed circuit board.*



*Figure 5 Close-up view on the usage of the different adjuster brackets.*

## **Help and troubleshooting**

### **Still have questions?**

Visit the Riscure Support Portal: <http://support.riscure.com>.

# Technical specifications

## Operational conditions

- Room temperature 20 .. 30 °C, (68 .. 86 °F), preferred.

## Baseplate assembly

- 1 countersunk screw M4 x 6, requires POZI-bit screwdriver.
- Baseplate made of black painted steel
- Weight 4.0 kg

## Target fixture

- Fixation method: adjuster brackets, 3 types, thumb screws.
- Bracket spots: square grid, distance 46 mm, threaded holes M5.

## Product case

- Dimensions (W x D x H): 384 x 338 x 4 [mm].



## **Declaration of conformity**

The Modular Base Plate for DLS is part of the Diode Laser Station product. The Modular Base Plate for DLS implementation complies with the directives and standards mentioned in the EC Declaration of Conformity of the Diode Laser Station.