Why going with the standard Cage platform?

It is no secret that current optical setups require high precision placement of optical elements in space. When the requirements are even tighter, you might consider using a Cage optical platform from one of the leading vendors. The Cage platform rods provides you with maximum accuracy placement between the optical elements, yet it comes at a heavy cost.

The problem with the existing Cage platforms

- The assembly process is complex - with multiple rods and adaptors it is hard to assemble a moderate setup. Furthermore, any modification in the apparatus requires disassembling the cage platform, performing the changes and reassembling the setup again.
- Continuous mounting locations - each optical element location needs to be manually measured before mounted.
- Bounded by the specific length of the rods - the current Cage platform are not robust and have limited length options. There isn't any accurate offering for longer setups.
- Not portable - moving the setup from one location to another will result in long realignment procedures.
- Dedicated optomechanics and Expensive components.

3DOptix is different

Precise

All optical elements are centered exactly above the fixation location. Dowel pins precisely define the location and position of each optical mount.

Modular

A wide variety of structural elements provides you with a modular platform.

Compatible

3DOptix platform is compatible with any other commercial optical or optomechanical component.

Why 3DOptix Virtual Cage System?

3DOptix introduces a revolutionary Virtual Optical Cage System for any optical research application and rapid optical prototyping. For the first time, optical developers and researchers will be able to easily center any, optical element, exactly above the fixation locations in any precise three-dimensional location at an affordable price.

- Get the same accuracy as a traditional Cage platform but without the complexity of the rods.
- Easy to assemble any three-dimensional apparatus or an optical bench with the Breadboard™ built-in 3D optical element mounting capabilities.
- Discrete mounting locations - with 3DOptix it is easy to register, accurately, any mount to a mounting location with dowel pins and screws.
- Reducing your alignment work - discrete mounting locations plus minimal degrees of freedom will reduce your alignment work.
- Not bounded a specific length. The entire optical table becomes your virtual grid, allowing the assembly of long setups.
- 3DOptix discrete capability is perfect to easily identify spatial and temporal locations for ultrashort laser setups.
- Fast and accurate assembly of multiple and synchronized setups across the optical table or your prototype bench.
- There is no need to manually measure the distance between the optical elements.
- 3DOptix optomechanics components are designed and manufactured under high tolerance constraints in order to achieve high precision capabilities.

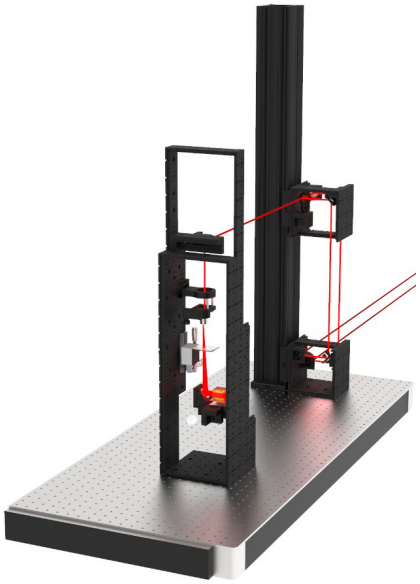
Agility
Easy to make any structural modification simply by adding or removing 3DOptix modular components, even while the setup is up and running. There is no need for any alignment work when you position or reposition the optical elements in the system.

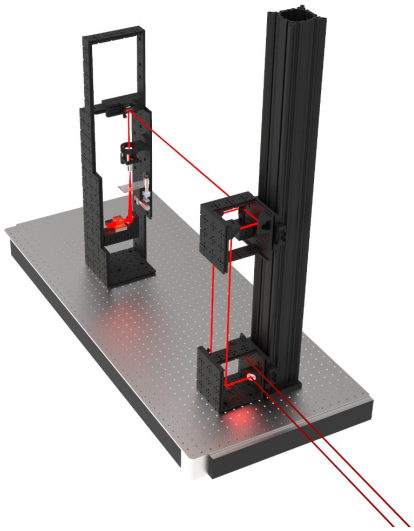
3-Dimensional
Easy to build any three-dimensional structure for rapid optical prototyping or for any optical applications.

Discrete Mounting locations
extremely easy to measure the distance between the optical elements.

3DOptix offering

- 3DOptix Breadboard™ structure components comes in different sizes to accommodate the design of any three-dimensional structure.
- 3DOptix optomechanics components can be purchased individually or as part of a predefined reference design or a bundle.
- Comparing to the other Cage platforms, 3DOptix Virtual Cage system has the best price-to-performance ratio.





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