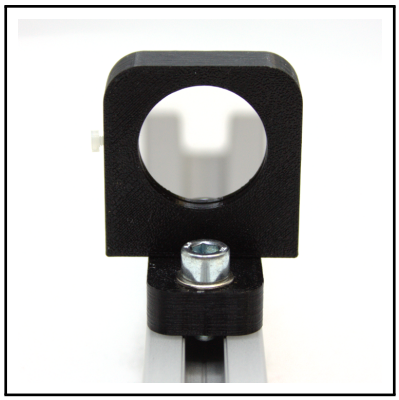
Holder module MHO-25R

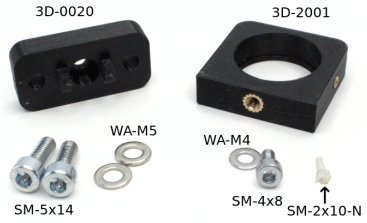


This module is used to accommodate optical components such as mirrors or lenses with a diameter of 25.4 mm (1 inch). For adjustment purposes, the component holder is mounted on the baseplate so that it can be rotated around the fastening screw.

A picture of the holder module with the mirror inserted can be seen on the right. The optical component (e. g. concave mirror with a focal length of 200 mm) is not included in the scope of delivery and can also be ordered from *Eureca*.

Components and tools required

Amount	Designation	Description
1	3D-0020	Baseplate 40 mm
1	3D-2001	Holder for optical components with 1" diameter
2	SM-5x14	Cylinderhead screw M5x14
2	WA-M5	Washer M5
1	SM-4x8	Cylinderhead screw M4x8
1	WA-M4	Washer M4
1	SM-2x10-N	Polyamide screw M2x10
1	TI-M4x4	Threaded insert M4x4
1	TI-M2x4	Threaded insert M2x4

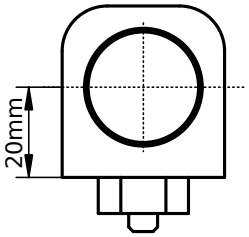


The »3D-*« components are individually adapted to the component and made from PLA filament using a 3D printer. The step files are available on request and via download.

Tools: Soldering iron or special melting set (the threaded inserts are already melted in the overview picture of the components); Allen keys 3 and 4.

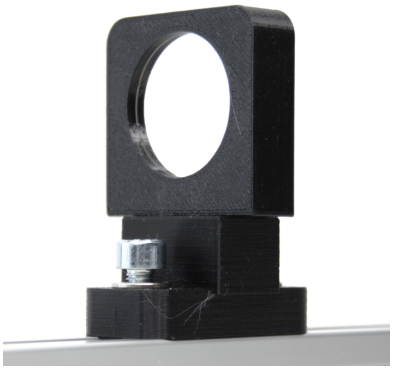
Optional spacers

If necessary, spacers can be used between the baseplate and the component holder. Without a spacer, the center of the optical component is 20 mm above the top edge of the baseplate. Depending on the spacer used, this distance changes accordingly.



There is a separate document for the spacers, in which the available types are presented and described. In this case, a spacer with a length of 15 mm is required (item number 3D-50xx). The height of the spacer must be selected according to the requirements (xx then stands for the two-digit thickness in mm), for example based on the information in the application description.

A picture of the module with an additional spacer is shown on the right.



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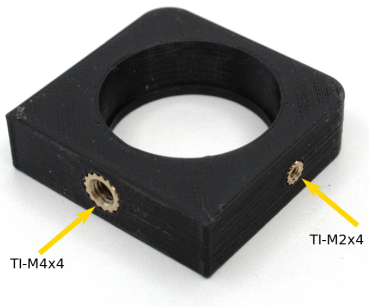
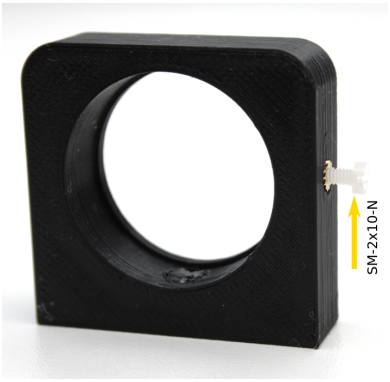
Assembly

It is recommended to gather all the parts and tools needed and carefully read the instructions before assembly.

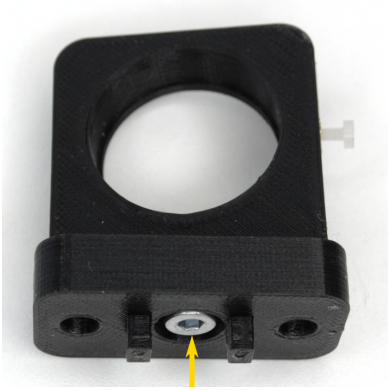
Melt the threaded inserts into the corresponding holes of 3D-2001. To do this, heat the inserts with a soldering iron or a special melting set, press them slowly and vertically into the holes and let them cool down. When doing so, observe the correct positioning and orientation of the threaded inserts and ensure that no plastic gets into the thread (otherwise clean it).



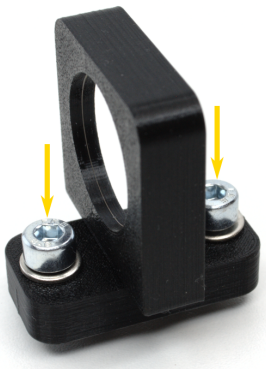
Screw the polyamide screw SM-2x10-N slightly into the side threaded insert TI-M2x4, it will later fix the optical component.



Place the 3D-2001 with the remaining threaded insert TI-M4x4 in the middle of the smooth upper side of the baseplate 3D-0020 and screw it from below through the middle fastening hole with the cylinder head screw SM-4x8 and the washer WA-M4. Tighten the screw just enough so that the slit does not wobble, but can still be turned a bit with slight force for precise alignment on the baseplate.



Insert a SM-5x14 cylinderhead screw with a WA-M5 washer from above through the remaining mounting holes. The module is then later screwed to the profile with these.



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