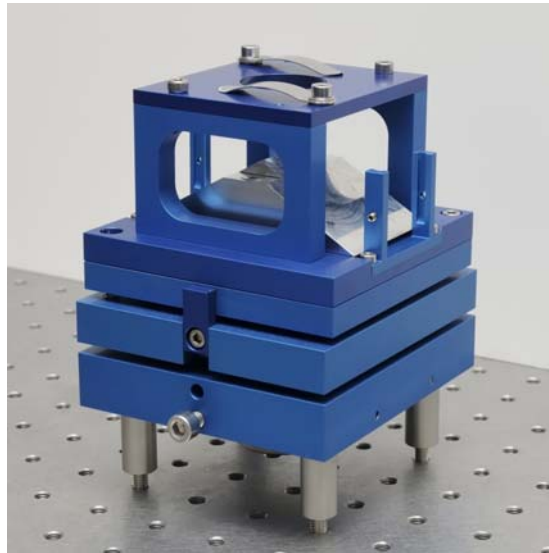
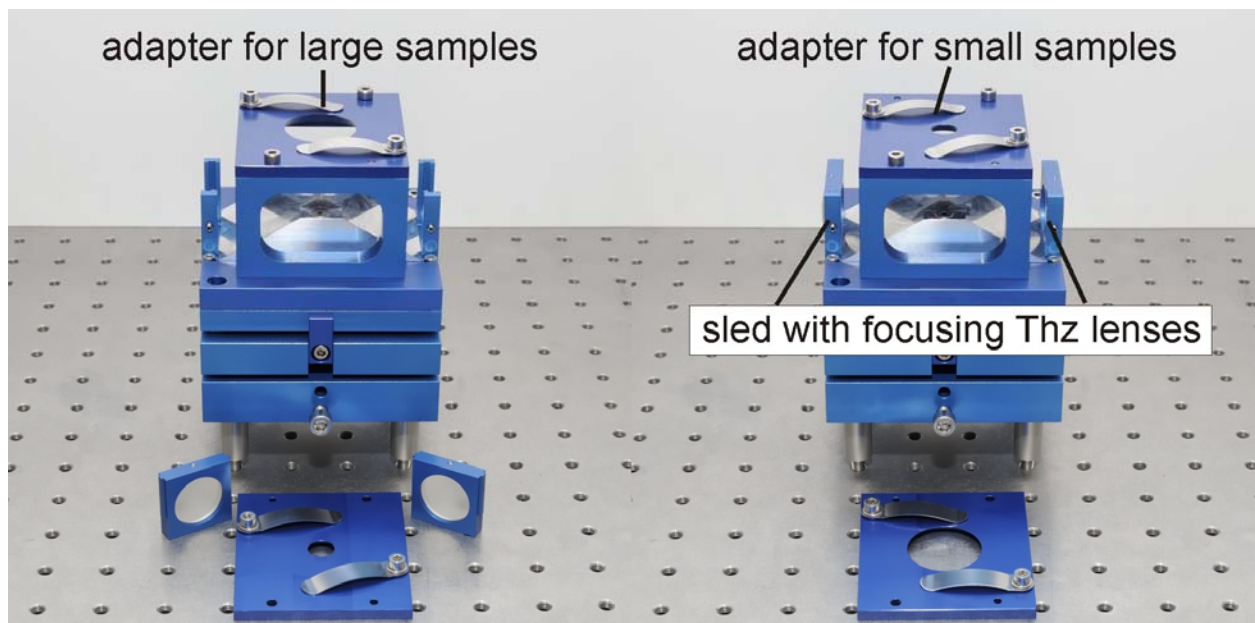


## Data sheet SHR : Sample Holder Reflection



**Sample holder reflection, mounted to base structure which is not included**

The sample holder for reflection measurements requires the base structure that comes with the sample holder transmission (SHT) and every TDS system. It is meant as an extension of the measurement capabilities of your THz spectrometer, enabling measurements on highly reflecting / absorbing samples. The sample holder consists of a plate, two sleds with focusing THz lenses, one adapter for large samples (at least 30 x 30 mm) and one adapter for small samples (at least 15 x 15 mm). The angle of incidence or the SHR is 30° by default.



**Sample holder reflection, mounted to base structure (not included).**

**Attention:**

The adapter for small samples requires using the focusing THz lenses in order for the THz beam not being reflected by the adapter rather than the sample. When using the focusing lenses make sure that the flat side faces the sample and that you use the correct set of lenses (designated for the reflection setup). The sample holder for transmission measurements comes with another set of THz lenses that have a significantly shorter focal length which will result in a very poor THz signal.

When changing from transmission to reflection measurements the THz signal is shift by about 150 ps because of the longer THz beam path. Please note that adding the focusing THz lenses will result in another shift of about 25 ps. Hence, when you design your THz system please bear in mind that the pulse position may change with the measurement setup.

**Contact**

If you have any further questions or remarks, please do not hesitate to contact us.

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