Interferometers Guide

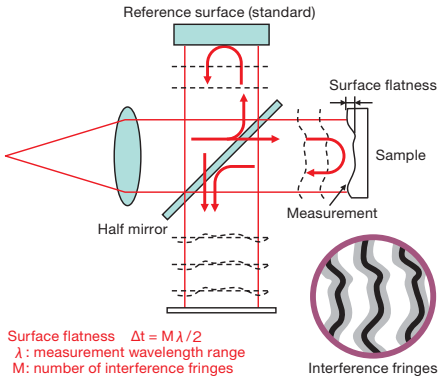
Components

We introduce the interferometer unit of three types such as Michelson interferometer, Mach-Zehnder interferometer and Fizeau interferometer, and the various components composing these units.
Users can freely change the arrangement of the components and also to rearrange to other interferometers It is used in the education field and experiment for training.

D-TOP Optics

For the purpose of more practical experimental tools, we propose an optical system can be made functionally and compactly.
Since D-TOP can use the existing holders, it can change the conventional equipment into a compact type with a small budget.
D-TOP is also advantageous for a good compatibility with compact laser, anti-vibration, and the observation of a smaller sample.
In addition, when moving the optical system assembled and having storage, it is possible to effectively utilize the experiment space.

Principle of Interferometer



For the first time users of the interferometer, we have summarized the point of alignment of the interferometer. By using drawings and photos, it has been described realistically.
There are useful alignment method and skill that can not be obtained from other sources.

Experimental Guidance

Before starting a full-scale experiment in the interferometer, we introduce a simple experiment to understand the features of the interferometer.
It is not required the special equipment or device other than the interferometer.
Users can experience a significant impact on the interference fringes even by high sensitivity of the interferometer and a small environmental change.