

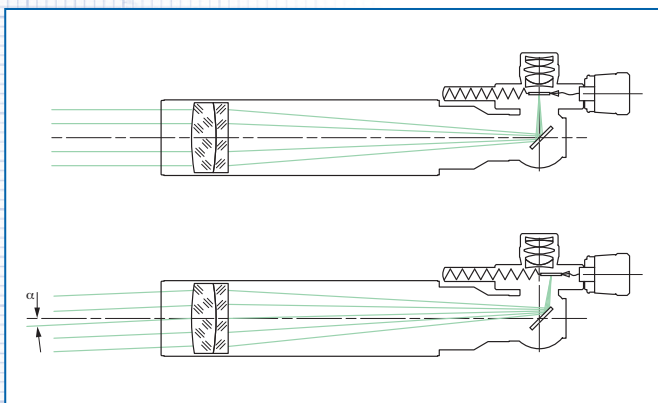
TESTING TELESCOPES

90°-VIEWING – WITH DOUBLE MICROMETER

Description:

For a general description of the operating principle of testing telescopes see page 20.

Testing telescopes with mechanical double micrometer allow the measurement of deflection angles in two directions. The movement of the eyepiece reticle in x- and y-direction in the image plane can be read from the scale of the micrometer drums. The scale division (SD) is 5 μm. The following figure shows the set-up of a testing telescope with 90° viewing. In contrast to a testing telescope with straight viewing the image appears upright and laterally reversed.



Application examples

(additional collimator required):

- Measurement of deflection angles
- Parallelism measurement of uncoated flats

Notes on ordering:

- Testing telescope eyepiece is commonly $f=14,7$ mm but can be equipped with eyepieces $f=25$ mm or $f=10$ mm on request.
- One reticle and one eyepiece are included in the standard instrument.
- If not specified otherwise, the testing telescope is adjusted to infinity at 546 nm wavelength. Adjustment to other distances or wavelengths is also possible on demand.
- The nomenclature of the testing telescopes with 90°-viewing and mechanical double micrometer is as follows:

Example:

F R 50/ 40/ 14,7 MD

Testing telescope

90° viewing

Focal length

Tube diameter

Eyepiece focal length

Double micrometer

Important:

Please specify reticle (see page 82) when ordering.
 Please specify direction of use if reticles with lettering (e.g. co-ordinate division etc.) are used so that the lettering will be right-side-up.

