



ELCOMAT[®] wave

Upgrade kit for optical benches

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The ELCOMAT[®] wave is an patented autocollimator with tube extension and interchangeable objective tube with a focal length of $f = 300$ mm. It has been developed for retrofitting to optical benches and allows camera lenses to be tested at distances between ∞ and 1.5 metres. The ELCOMAT[®] wave features electronic focus and wavefront evaluation and separately switchable illumination in red, green, blue and white. The ELCOMAT[®] wave can also be used to perform tests that previously required the use of a projector.

Measuring tasks

- Shimming - Adjusting the flange focal distance of lenses
- Parfocal test - Checking the flange focal distance of zoom lenses when zooming
- Focus marking - Determination of the focus distance markers
- EFL and zoom - Checking the focal length and zoom markings
- Image quality - Testing and documentation of astigmatism, coma and chromatic aberrations
- Camera flange - Determination of the camera flange distance with optional module
- Chromatic Aberrations – testing the color-related focal shift and focal length

The upgrade kit consists of the autocollimator ELCOMAT[®] wave and the ELCOwavebench software package. The measurement results are documented and stored in a database. This allows easy and clear comparison of measurements. With the ELCOMAT[®] wave, lenses with a focal length of approx. 100 mm to 30 mm can be tested. To extend the range of testable lenses from 30 mm down to 10 mm focal length, an optional lens tube with a focal length of $f = 150$ mm and a free aperture of 25 mm is available as an option.

Technical Data

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|---|---|
| Description | ELCOMAT [®] wave Upgrade kit for optical benches |
| Art.-No. | 236 851 |
| Lens focal length | 300 mm |
| Recommended focal length range | 100 mm bis 30 mm |
| free aperture | 50 mm |
| Tube diameter (mm) | 65 f7 |
| Tube extension length | 50 mm |
| Tube extension resolution | 3 μ m |
| LED wavelengths | red 624 nm / green 525 nm / blue 470 nm; BT.2020 conform |
| weight | 6 kg |
| Dimensions without connection cable approx. | 450 mm x 120 mm x 100 mm |
| ELCOMAT [®] Computer interface | USB 3.0 |
| Counter Computer interface | USB 2.0 |

Options

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|--|------------------|
| Lens tube $f=150$ mm / D65 (free aperture 25 mm) Distance range from ∞ to approx. 0.5 m | |
| for use in the camera lens focal length range 30 mm to 10 mm | Art. Nr. 281 185 |
| Holder D65 with holes (25 mm) for mounting on benches with Mark-III collimator | Art. Nr. 236 861 |
| Flat mirror in PL Mount | Art. Nr. 236 865 |

Subject to technical changes!

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