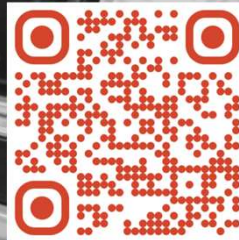
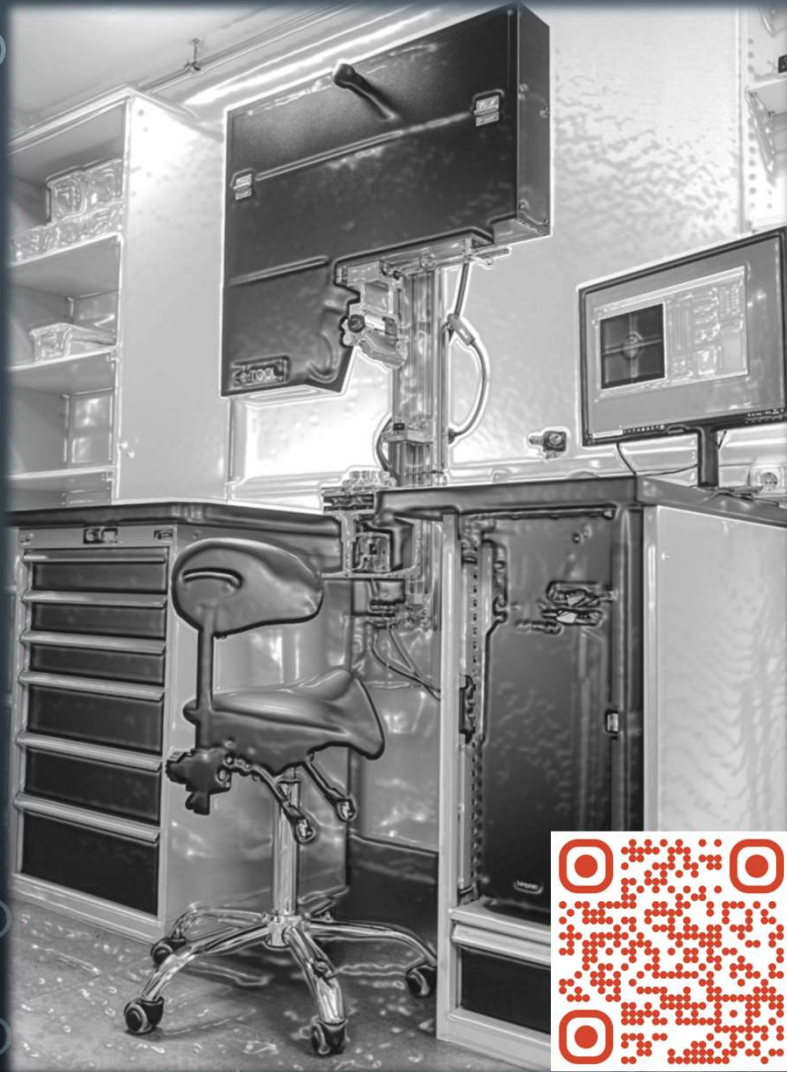


O-TOOL



<https://www.ibe-optics.com/otool>

What is the O -Tool?

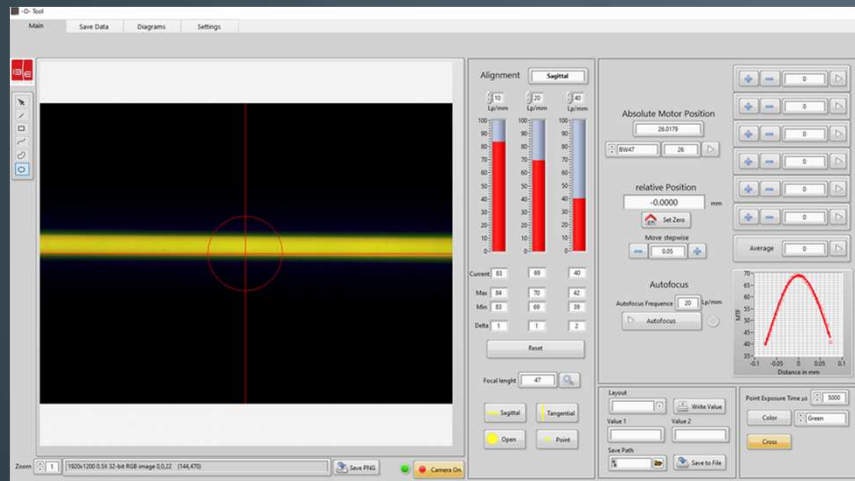
The O-Tool is a versatile and compact system for adjusting and testing camera lenses and lens groups. It includes the adjustment device with the projection unit, the camera and a computer with operating and control elements.

The O-Tool measures the modulation transfer function MTF of cinema/photo lenses or similar systems at infinite object distance.

The measurement is performed with three typical spatial frequencies: 10 lp/mm, 20 lp/mm and 40 lp/mm in real time.



The O-Tool software



The O-Tool software is an essential part of the O-Tool device.

It offers:

- ✓ Graphical and digital representation of the MTF values, including coordinate system.
- ✓ Software-controlled manual and/or automatic focusing on a user selectable spatial frequency via the MTF.
- ✓ Simultaneous MTF measurement at any three spatial frequencies
- ✓ Display of the focus position and measurement of the focus shift.
- ✓ Data recording and extraction via CSV file.
- ✓ Simple measurement of the aperture-dependent focus.

- ✓ A visual display of point and line functions on the color screen
- ✓ Switching between tangential and sagittal slit alignment via an integrated, rotary-driven filter wheel
- ✓ MTF as a function of image height and back-focal distance
- ✓ Real-time measurement and display, thus supporting the fine-tuning of lenses during mechanical assembly
- ✓ The spot width (radial) and height (tangential) can be measured
- ✓ Determination of field curvature and spherical aberration
- ✓ Determination of longitudinal chromatic aberration
- ✓ Determination of flange focal length
- ✓ Determination of astigmatism
- ✓ Drawing tools for image qualification
- ✓ Display of the green, red, and blue channels of the image
- ✓ Display of luminance, saturation, and hue
- ✓ Quick switching between on-axis and in-field measurements
- ✓ Rotation of the 360° unlimited optics
- ✓ Automatic exposure time setting
- ✓ Automatic tracking and visualization of the minimum and maximum MTF values and deflections
- ✓ Automatic display of the largest MTF difference at a given image height
- ✓ Maximum adjustable image radius of 35 mm.
- ✓ Suitable for optics up to 550 mm
- ✓ Point and slit images can be easily saved
- ✓ Record data at a given image height across the entire 360°
- ✓ Up to ten different storage formats

Technical Data

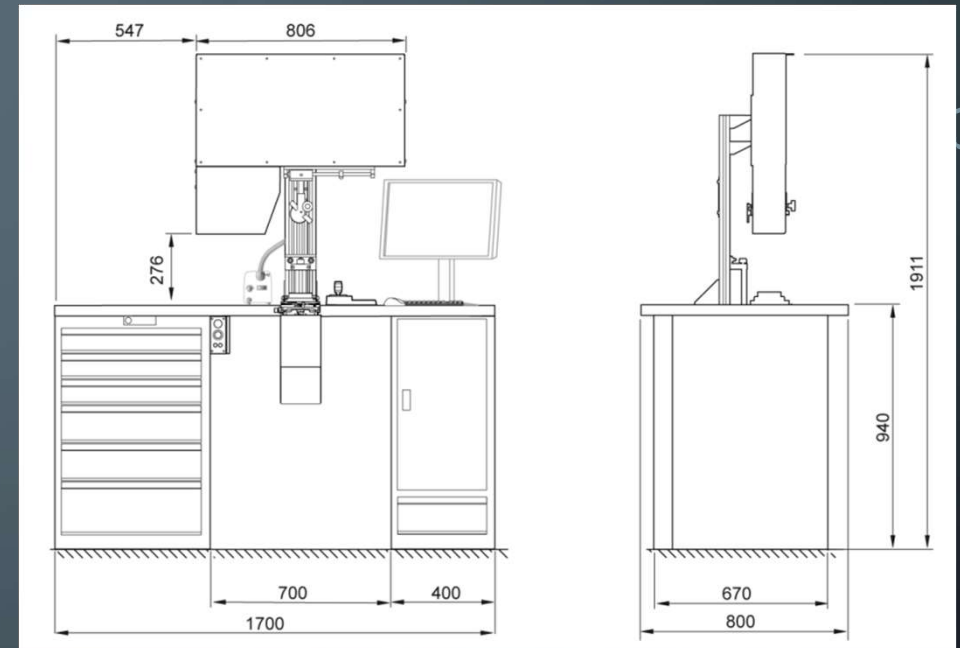
Operators	1
Max. outer diameter of the lens	Approx. 160mm
A-rated sound pressure levels	under 70 dB(A)
Weight	230 Kg
Transport and storage temperature	0°C to 50°C
Operating temperature	20°C ± 10°C
Humidity	Up to 80%, non condensing
Field mirror, angle	From 45° to 90° rotatable
Max. Entrance Pupil Position	70mm
Spatial frequency	0 - 80Lp/mm
Default frequencies:	10, 20 und 40Lp/mm
Voltage	230 VAC / 50 Hz
Power consumption	Max. 120 VA

Packing dimensions

Pallet Adjustment system (B x H x T):
1,62 m x 1,07 m x 0,75 m // 157 kg

Pallet Table & PC (B x H x T):
2,01 m x 1,07 m x 1,41 m // 375 kg

System dimensions



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