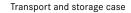
MICROSCOPES & REFRACTOMETERS 2023

MICROSCOPES

Digital refractometer KERN ORF









Rear view, screw-on battery compartment cover



IP65: Protected against dust and water splashes

Digital refractive index measurement for laboratories and the industry for multi-application ► PREMIUM refractometer

Features

- The KERN ORF refractometers are accurate and universal maintenance free digital handheld refractometers
- The large display is easy to read. Mistakes in reading are avoided
- The typical and practical design is suitable for a quick and convenient everyday use and is characterized by its easy-using and robustness
- The PREMIUM refractometers from the KERN ORF range are protected to international IP65 protection class, against dust and water splashes. After use, you can rinse the refractometer under running water
- The large, easy-to-read TFT colour display with integrated temperature display supports the user to reliably determine the measurement
- A large selection of models is available with single or multiple scales. This allows the use in various applications

- The instrument comes with an optimized software that can show a result in different scales
- The integrated automatic temperature compensation (ATC), avoids the manual conversion of the measurement. This allows a quick and efficient usage of the instrument
- Due to the fact that the refractometer has been calibrated at the factory, this guarantees that it can be used immediately for accurately measuring your sample.
- The follwoing accessory-parts are included:
 Calibration liquid
- Pipette
- Storage box
- 2 × AAA batteries
- Leather bag
- Screwdriver
- Cleaning tissue

Technical data

- Measurement temperature: 5 °C 40 °C
- Overall dimensions W×D×H 145×67×40 mm
- Net weight approx. 200 g
- Power supply: 2 × AAA (1,5 V)
- Lifetime of the battery: approx. 3.750 measurements
- ATC (Automatic Temperature Compensation), does not apply to the refraction index scale
- Minimum sample volume: 2-3 drops
- Automatic energy management (AUTO-OFF after 90 seconds)

Also available with calibration certificate.



Only while stocks last

Remaining stocks of this series

Successor series ORM





MICROSCOPES & REFRACTOMETERS 2023

KERN PICTOGRAMS



360° rotatable microscope head



Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes



Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera



Abbe Condenser With high numerical aperture for the concentration and the focusing of light



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LED

Halogen illumination For pictures bright and rich in contrast

LED illumination Cold, energy-saving and especially long-life illumination



Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination For stereomicroscopes

Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter



Fluorescence illumination for compound microscopes With 3W LED illumination and filter



Phase contrast unit For a higher contrast



Darkfield condenser/unit For a higher contrast due to indirect illumination



ABBREVIATIONS

C-Mount

H(S)WF LWD

SLR camera

FPS

N.A.

SWF

W.D.

WF

To polarise the light







Polarising unit



Frames per second

Numerical Aperture

Working Distance

Long Working Distance

Single-Lens Reflex camera











ZOOM

Infinity system Infinity corrected optical system



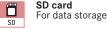
Auto-focus For automatic control of the focus level



Parallel optical system For stereomicroscopes, enables PARALLEL fatigue-proof working







USB 2.0

USB 2.0 digital camera For direct transmitting of the picture to a PC



USB 3.0 digital camera For direct transmitting of the picture to a PC



WIFI data interface: For transmitting of the picture to a mobile display device



HDMI digital camera For direct transmitting of the picture to a display device



PC software To transfer the measurements from the device to a PC.



Automatic temperature compesation For measurements between 10 $^\circ\text{C}$ and 30 $^\circ\text{C}$



Adapter for the connection of a camera to a trinocular microscope

Super Wide Field (Field number at least Ø 23 mm for 10× eyepiece)

Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013

Battery operation **III**) Ready for battery operation. The battery BATT type is specified for each device.



Battery operation rechargeable Prepared for a rechargeable battery operation



GB, AUS or USA on request.

Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Integrated power supply unit Integrated in microscope. 230V/50Hz standard EU. More standards e.g.



Package shipment

The time required to manufacture the product internally is shown in days in the pictogram.



