KERN **OKO 178T251**

Digital set with metallurgical microscope, camera and C-mount adapter



Date of creation: 25.10.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Digital microscope set
Product family	OKO-S

Display	
Display type	HD Touch Screen
Display screen size	10,5"
Languages of the user interface	German English

Construction	
Dimension (W×D×H)	390×235×620 mm
Dimension display device (W×D×H)	237×19×169 mm
Material display housing	plastic
Optical system	Infinity
Tube type	Trinocular
Tube angle of inclination	30°
Tube 360° rotation	✓
Tube type	Siedentopf
Light distribution	0:100 80:20
Contrasting methods	Bright field Polarisation
Standard objectives	5× 10× 20× 50×
Lens quality	Infinity Plan
Nosepiece screw-in locations	5
Interpupillary distance [Min]	50 mm
Interpupillary distance [Max]	75 mm
Diopter adjustment	both-sided
Diopter adjustment [Min]	-5
Diopter adjustment [Max]	5
Colour temperature	5500 K

Functions	
Supported operating systems	Android
Memory - total size	32 GB
Camera - Software functions	Image capturing Video capturing Measurements
Camera - Applicable software	integrated camera software (HDMI)

Interface	
Interfaces	Ethernet Bluetooth WiFi USB 2.0 USB 3.0 HDMI

Ocular	
Ocular field width	HWF
Ocular magnifications	10x
Ocular visual field	22 mm
Ocular diameter	30 mm

Illumination	
Illuminance	Reflected light Transmitted light
Illumination type incident light	LED
Illumination type transmitted light	LED
Illumination intensity incident light	5 W
Illumination intensity transmitted light	5 W
Illumination dimmable	Incident light + Transmitted light, separate
Koehler illumination	✓
Filter possible	✓
Field diaphragm	✓

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80000	Mikroskoptisch	
Bauweise	mechanical
Weg	77 mm; 52 mm
Durchlicht möglich	✓
ATTR_microscopeTableSpecimentHolders	2

Focussing	
Field of view [Min]	0,18 mm
Field of view [Max]	3,6 mm
Torque regulation	✓
Fine drive minimum	0,002 mm
Focusing mechanism	coaxial coarse and fine drive

Condensor	
Condensor type	Abbe
Condenser - Mounting	centerable
Condenser - Aperture	1,25
Aperture diaphragm	✓

Camera	
Cameratype	Tablet camera
Camera - Resolution	8 MP 4 K
Camera - Sensor type	CMOS
Camera - Sensor size	1/1,8"
Camera - Colour depth	Colour
Camera - Framerate	30 fps
Camera- Mounting types	C-mount
Camera - Exposure method	Rolling Shutter
Camera - Sensor dimensions	7,736×4,379 mm
Camera - Sensor Diagonal	8,88 mm
Camera - Pixel size	2×2 µm
Camera - Exposure time [Min]	0 ms
Camera - Exposure time [Max]	1000 ms

Power Supply	
Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	AUS UK US CH
Input voltage power supply / power [Max]	100 - 240 V
Power supply cable removable	removable
Input voltage device / power [Max]	5 V 1000 mA
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,5 mm, long 10 mm

Environmental conditions	
Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Packing & Shipping	
Delivery time	1 d
Dimensions packaging (W×D×H)	590×440×390 mm
Shipping method	Parcel service
Net weight approx.	11 kg
Gross weight approx.	14 kg
Shipping weight	20,2 kg
Shipping volume weight	20,2 kg

Product information	
GTIN/EAN number	4045761490949
Trade number	90118000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD

