



OBT 231 with LCD display

**Note:** Please request special conditions for a classroom set



Monocular version



Binocular version



LCD display ODC 231

## Educational Line

### The modern compound microscope for teaching in your class room

#### Features

- The KERN OBT range is a high-quality school microscope, which will impress you with its intuitive control elements, sturdy construction and modern design
- The infinitely dimmable 1W LED guarantees optimum illumination of the samples and also ensures long service life. Mobile use is also no problem through optional battery operation
- The simple 0.65 condenser lens with adjustable aperture diaphragm on the OBT 101 ensures the very best concentration of light and illumination of the sample. The OBT 102, 103, 104, 105, 106 models have a 1.25 Abbe condenser which is height-adjustable and can therefore be focussed and has an aperture diaphragm, which ensures the very best concentration of light

- To focus the object, all models have a coarse and fine focusing knob on both sides. The mechanical stage enables you to work with the samples and move them rapidly (only for OBT 103, 104, 105, 106)
- A large selection of different eyepieces and objectives is also available
- NEW: OBT 231: Digital kit with LCD display for viewing samples, USB dual power supply for microscopes and displays, software for measurements as well as a USB interface and micro SD card slot for documenting recordings
- NEW: ODC 231: LCD display, can be retrofitted on all models of the OBT range, see model fittings table
- A dust cover as well as user instructions are included with the delivery
- Please find detailed information in the following model outfit list

#### Scope of application

- Primary school, secondary school, training, hobby

#### Applications/Samples

- Translucent, thin, high-contrast, less complex samples (e.g. plant tissue, coloured cells/parasites)

#### Technical data

- Finite optical system DIN
- OBT 101: 3-fold lens revolving unit, OBT 102, 103, 104, 105, 106, OBT 231: 4-fold lens revolving unit
- OBT-1: Tube 45° inclined/360° rotatable
- Diopter adjustment, one-sided (for binocular models)
- Overall dimensions W×D×H  
OBT-1: 195×147×325 mm  
OBT-2: 182×195×360 mm
- Net weight  
OBT-1: approx. 2,8 kg  
OBT-2: approx. 6 kg

#### STANDARD



not  
OBT 101

#### OPTION



#### Model

#### Standard configuration

	Tube	Eyepiece	Objective quality	Objectives	Illumination	Stage
<b>OBT 101</b>	Monocular	WF 10 x/Ø 18 mm	Achromatic	4× / 10× / 40×	1W LED (transmitted)	fix
<b>OBT 102</b>	Monocular	WF 10 x/Ø 18 mm	Achromatic		1W LED (transmitted)	fix
<b>OBT 103</b>	Monocular	WF 10 x/Ø 18 mm	Achromatic		1W LED (transmitted)	mechanical
<b>OBT 104</b>	Binocular	WF 10 x/Ø 18 mm	Achromatic	4× / 10× / 40× / 100×	1W LED (transmitted)	mechanical
<b>OBT 105</b>	Monocular	WF 10 x/Ø 18 mm	Achromatic		1W LED (transmitted)	mechanical
<b>OBT 106</b>	Binocular	WF 10 x/Ø 18 mm	Achromatic		1W LED (transmitted)	mechanical
<b>OBT 231</b>	LCD display	-	Achromatic		1W LED (transmitted)	mechanical

**NEW** New model

Model outfit		Model KERN							Order number
		OBT 101	OBT 102	OBT 103	OBT 104	OBT 105	OBT 106	OBT 231	
<b>Eyepieces</b> (23,2 mm)	WF 10 × /Ø 18 mm	✓	✓	✓	✓✓	✓	✓✓		OBB-A3200
	WF 10 × /Ø 18 mm (with Pointer)	○	○	○	○	○	○		OBB-A3201
	WF 10 × /Ø 18 mm (reticule 0,1 mm)	○	○	○	○	○	○		OBB-A3202
<b>Achromatic objectives</b>	4 × /0,1 W.D. 27 mm	✓	✓	✓	✓	✓	✓	✓	OBB-A3203
	10 × /0,25 W.D. 7 mm	✓	✓	✓	✓	✓	✓	✓	OBB-A3204
	40 × /0,65 (spring-loaded) W.D. 0,6 mm	✓	✓	✓	✓	✓	✓	✓	OBB-A3205
	100 × /1,25 (oil) (spring-loaded) W.D. 0,2 mm	○	○	○	○	✓	✓	✓	OBB-A3207
<b>Monocular tube</b>	45° angled/360° revolving	✓	✓	✓	○	✓	○	○	OBB-A3221
<b>Binocular tube</b>	· Siedentopf 45° inclined/360° rotatable · Interpupillary distance 48 mm-75 mm · Diopter adjustment one-sided	○	○	○	✓	○	✓	○	OBB-A3222
<b>Tube with LCD display</b>	· Tablet Camera 2 MP · CMOS 1/2,8" · USB 2.0	○	○	○	○	○	○	✓	ODC 231
<b>Fixed stage</b>	· Stage size W×D 115×110 mm · Coaxial coarse and fine focusing knobs, scale: 2 µm	✓	✓						
<b>Mechanical stage</b>	· Stage size B×T 115×110 mm · Travel 52×20 mm · Coaxial coarse and fine focusing knobs, scale: 2 µm · Holder for one slide			✓	✓	✓	✓	✓	
<b>Condenser</b>	Simple condenser N.A. 0,65	✓							
	Abbe N.A. 1,25 (aperture diaphragm)		✓	✓	✓	✓	✓	✓	
<b>Illumination</b>	1W LED spare bulb (transmitted)	✓	✓	✓	✓	✓	✓	✓	OBB-A3208
<b>Colour filters for transmitted illumination</b>	Blue	○	○	○	○	○	○	○	OBB-A3212
	Green	○	○	○	○	○	○	○	OBB-A3210
	Yellow	○	○	○	○	○	○	○	OBB-A3211
	Grey	○	○	○	○	○	○	○	OBB-A3209

✓ = Included with delivery

○ = Option