Zeiss Microscope **Standard** KF 2
For school and university teaching and for the doctor's office



Optimum economy
and performance

ZEISS

Microscope **Standard** KF 2

optimum economy and performance.



In schools and universities, microscopes are indispensable if students are to see fine structures in biology and medicine. What is important is the ability to correctly interpret the details and the relationship between them.

On-the-spot diagnosis is often required in the doctor's office.

High-performance microscopy is now possible with a minimum of equipment.

The optical performance of a microscope is not only determined by its magnification. Optics designed to the specifications laid down by Abbe, a high-power illumination system, a sturdy design and high-precision production are the other important features which set the **Standard** KF 2 microscopes in a class of their own.



Zeiss Microscope Standar

For schools, universities and courses, for field studies and study trips, in doctor's offices and drugstores



Stand KF 2 with illuminating mirror
extremely economical, line-independent.
For more than 100 years now illuminating mirrors have been used to reflect light into the microscope. This allows students and beginners not only to observe the specimen, but also to study the influence of light on the microscopic image.
The stand with illumination mirror is line-independent and therefore ideal for field work and study trips.

Observation tubes

Inclined binocular tube D 1
Viewing direction of 45°.
The pupillary distance can be adjusted without changing the focus. One eyepiece can be focused to compensate for different dioptric powers of the user's eyes.
The observation tubes are easy to change.

Stages

Fixed stage with spring clips
The specimens are held safely in position and can be easily moved with the tip of a finger. The stage plate is resistant to caustic substances and liquids sometimes present.

Mechanical stage of the **Standard** KF 2
Mechanical stage with low-mounted coaxial stage control on the left for x-y travel. Smooth movement and precise adjustment of the specimen even at the highest magnifications.

75 × 25 mm travel. The precise x-y movement facilitates systematic scanning of the specimens and the relocation of certain specimen details. The specimen holder with its spring lever permits the fast change of specimens.

Condenser

Condenser 0.9 AS with two click-stop positions, with iris diaphragm
1. aspheric condenser optics with numerical aperture (NA) 0.9 for objectives 10× – 100×

2. position for low-power observation with objective 3.2×.
There is a choice of two condenser rockers: one with the illumination diaphragm Ph 2 for phase contrast and one with a darkfield diaphragm; the condenser rockers can be easily changed by the user.

The condenser height is fixed for optimum object illumination.

Illumination

Stand KF 2 with in-base illuminator
The in-base illumination guarantees the brightness required for optimum working conditions. 6 V 10 W low-voltage halogen illuminator, aspheric collector, integrated power supply for line connection. The lamp voltage is continuously variable from 0 – 6 V, the set voltage is stabilized against power fluctuations.
The in-base illumination system provides optimum image brightness even if phase contrast or darkfield is used for contrasting or color filters for contrast enhancement of stained specimens.

A mirror can be attached to the housing of the illumination system. This allows the microscopist to use any light source he wishes and work independently of the power supply.

rd KF 2



Inclined monocular tube

with 45° viewing direction, rotatable about the vertical axis. Extremely economical. Light weight, for study and field trips.

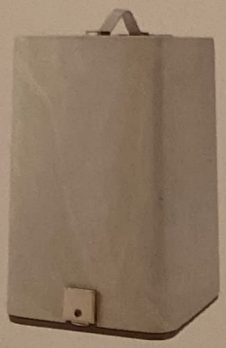
Stand

Sturdy, compact, easy-to-reach stand. Coarse and fine focusing controls. Coaxial knobs arranged on both sides make operation equally convenient for both right-handed and left-handed users. The drive raises and lowers the stage. The quadruple nosepiece locks easily and reliably in position. The whole magnification range from the lowest to the highest power can be covered in sufficiently small steps with just four objectives.

The tube can be rotated about its vertical axis and locked in any position. The stage can point towards the user or away from him.

Other accessories

Attachable illuminating mirror. Plastic case for the dust-proof storage and transport of the microscope.



For further objectives and eyepieces (also for incorporation of reticles), reticles, eyepiece micrometers and other accessories please see our price lists.

Objectives

The nosepiece accepts four objectives.
A number of objectives with different magnifications and features is available. What objectives are used depends on the intended application of the microscope (see suggested equipment).



Achromat objectives from Zeiss:

high-performance objectives for observation.

Achromat 3.2/0.07	for low-power observation
Achromat 10/0.22	for low-power observation and the study of details
Achromat 25/0.45 Ph 2	brightfield and phase contrast
Achromat 40/0.65	for details, brightfield
Achromat 40/0.65 Ph 2	brightfield and phase contrast
Achromat 100/1.25 oil	for highest magnification, brightfield; smears of blood, bacteria, parasitic micro-organisms, etc.
Achromat 100/1.25 oil Ph 2	special objective for phase contrast (unstained specimens)

A-Plan objectives

Image with high contrast and an almost flat field.

A-Plan 10/0.25	brightfield
A-Plan 20/0.45	brightfield
A-Plan 20/0.45 Ph 2	brightfield, phase contrast
A-Plan 40/0.65	brightfield
A-Plan 40/0.65 Ph 2	brightfield, phase contrast
A-Plan 40/0.4 D	brightfield, darkfield
A-Plan 100/1.25 oil	brightfield

Eyepieces

Eyepiece KF 10×/18 Br
Together with the above objectives, these eyepieces feature optimum image rendition. Magnification 10×, field of view 18, viewing angle 40°, suitable for spectacle-wearers.

Standard KF 2

Suggested Equipment

For schools, universities, and courses, for field and study trips illuminating mirror magnifications: 32× – 100× – 400×	Stand KF 2 with illuminating mirror, fixed, square stage, inclined, monocular tube **Achromat** 3.2/0.07 **Achromat** 10/0.22 **Achromat** 40/0.65
For schools, universities, and courses, economical basic instrument with in-base illuminator magnifications: 32× – 100× – 400×	Stand KF 2 with in-base illuminator, fixed, square stage, monocular tube **Achromat** 3.2/0.07 **Achromat** 10/0.22 **Achromat** 40/0.65
For schools, universities, and courses with binocular tube magnifications: 32× – 100× – 400×	Stand KF 2 with in-base illuminator, fixed, square stage, binocular tube D 1 **Achromat** 3.2/0.07 **Achromat** 10/0.22 **Achromat** 40/0.65
For the doctor's office, hematology phase contrast and highest magnification magnifications: 100× – 400× – 1000×	Stand KF 2 with in-base illuminator, mechanical stage, binocular tube D 1 **Achromat** 10/0.22 **Achromat** 40/0.65 Ph 2 **Achromat** 100/1.25 oil
For the doctor's office, gynecology, urology magnifications: 100× – 250× – 400×	Stand KF 2 with in-base illuminator, mechanical stage, binocular tube D 1 **Achromat** 10/0.22 **Achromat** 25/0.45 Ph 2 **Achromat** 40/0.65 Ph 2

We have only listed the specific features of each equipment.

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Subject to change

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