

# Nikon

## Educational Microscope

# YS50

*First Educational Microscope to Employ CF Optics, Developed by Nikon, a Leader in Microscopes.*

*The View is Bright and Clear, while Operation is a Breeze for Everyone*



- First educational microscope to employ CF optics
- Eyepiece tube has a built-in prism producing brighter images
- Easy-to-rotate quadruple nosepiece
- Condenser with magnification indication
- Coaxial coarse/fine focus knob ensures accurate focusing at high magnifications
- Robust body construction provides reliable performance for many years
- Anti-mold treatment provided
- Double-plate mechanical stage model also available



## CF optics, a first for educational microscopes

Produce images that are sufficiently bright and of high contrast across the entire viewing field from center to the periphery.

## Easy-to-rotate quadruple nosepiece

Provides smooth rotation and excellent durability. Also, a knurled grip around the base of the nosepiece facilitates easy rotation and eliminates the need to touch the objectives.

## Condenser with magnification indication

The condenser's aperture diaphragm has position guide markings for the 4X, 10X, 40X, and 60X objectives, allowing the operator to obtain optimum resolution and contrast easily—a feature usually only available on higher-grade microscopes.



## Coaxial coarse/fine focus knob for accurate focusing

Ensuring accurate focusing even during high-magnification observations, this focus knob can be used while the operator's hands are resting on the table. The torque of the coarse focusing knob is adjustable.



## Two eyepiece lenses featuring wide fields of view

10X (F.O.V. 18) and 15X (F.O.V. 12) eyepiece lenses are provided and each comes with a soft-touch rubber eye guard.

## Eyepiece tube with built-in prism

Thanks to a built-in prism, this eyepiece tube produces brighter images than those through a mirror-type tube.

## Robust and stable body

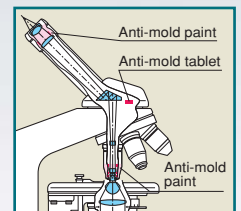
Both the arm and body of the microscope are built strong for many years of reliable use.

## Plain stage

The YS50 has a durable, fixed-type plain stage that facilitates easy specimen handling.

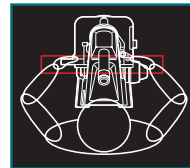
## Anti-mold treatment

The objectives, eyepiece lens, and eyepiece tube are provided with anti-mold treatment to suppress the generation of mold.



## Double-plate mechanical stage model also available

Use of this advanced mechanical stage permits the easy movement of the observation point during high-magnification observations. Also, the X-axis guide rail does not protrude above the height of the stage surface, providing ample space on the stage to facilitate easy specimen handling.



◀ The coaxial coarse/fine focus knob and stage control are equidistant from the operator, ensuring comfortable operation.

## Specifications

Total magnification	40X–900X
Focusing	Coaxial coarse/fine focus knob (coarse/fine knob on the right, fine knob on the left); Cross roller guide incorporated; Focusing strokes 2mm upward, 20mm downward; Coarse motion 37.7mm per rotation; Fine motion 0.2mm per rotation with 2 $\mu$ m scale increments; Coarse motion torque adjustable
Eyepiece tube (Anti-mold)	Monocular type having a 45° inclination; With built-in prism
Eyepiece lens (Anti-mold)	CFWE 10X (F.O.V. 18) with rubber eye guard, CFWE 15X (F.O.V. 12) with rubber eye guard
Condenser	Abbe type N.A. 1.25 with objective position markings; Accepts 33mm diameter filters; Includes standard blue filter; Movement range: Vertical 10mm
Nosepiece	Fixed-type quadruple nosepiece; Internal click-stop mechanism; Knurled nosepiece grip
Objectives (Anti-mold)	CF Achrom 4X (N.A. 0.10/W.D. 25mm), CF Achrom 10X (N.A. 0.25/W.D. 5.6mm), CF Achrom 40X (N.A. 0.65/W.D. 0.6mm), CF Achrom 60X (N.A. 0.80/W.D. 0.24mm)
Stage	Fixed-type plain stage with stage clips Double-plate mechanical stage model also available (with slide holder)
Reflecting mirror	Front: plane mirror Rear: silver-coated for diffusing direct sunlight
Accessories	Microscope storage case
Dimensions	387 (H) x 187 (W) * x 238 (D) mm (15.2 x 7.4 x 9.4 in.) *Plain stage model.
Weight	Approx. 4.8kg (10.6 lb.) (Plain stage model)



## WARNING

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2001.

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