

Nexcope®

NE300

BIOLOGICAL MICROSCOPE FOR TEACHING AND ROUTINE LAB WORK



NOVEL
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Specifications are subject to change without any obligation on the part of the manufacturer. 2026.5

Compact & Durable · Precise & Reliable · Simple & Intuitive



NE300 Compact Educational Biological Microscope

For daily classroom teaching and laboratory use, the NE300 is compact, durable, precise and reliable. Ideal for long-hour operation on limited bench space in teaching labs and research inspection scenarios.

Featuring user-friendly and intuitive operation, it is perfectly suited for beginners. It boosts learning efficiency for students and enables lab staff to carry out work with great ease.

Nexcope®



Compact & Durable

Ideal for digital interactive microscopy classrooms

Integrated Digital Camera Tube

An optional all-in-one digital camera tube is available to connect microscopes to the network and build digital interactive classrooms. It supports interactive morphological microscopy teaching via NOW.Lab / NOW. Class systems for seamless communication. With no protruding camera interface, the microscope features a neater design and easier daily maintenance.



Compatible :

统信UOS



Carrying Handle & Cable Management Device

Equipped with a dedicated carrying handle, the microscope is lightweight, stable and structurally robust. A cable organizer is built into the rear panel to neatly tidy excess power cords, effectively preventing tripping hazards during handling. Its compact size also allows for easy storage.



Precise & Reliable

Ideal for experiments, testing and scientific research

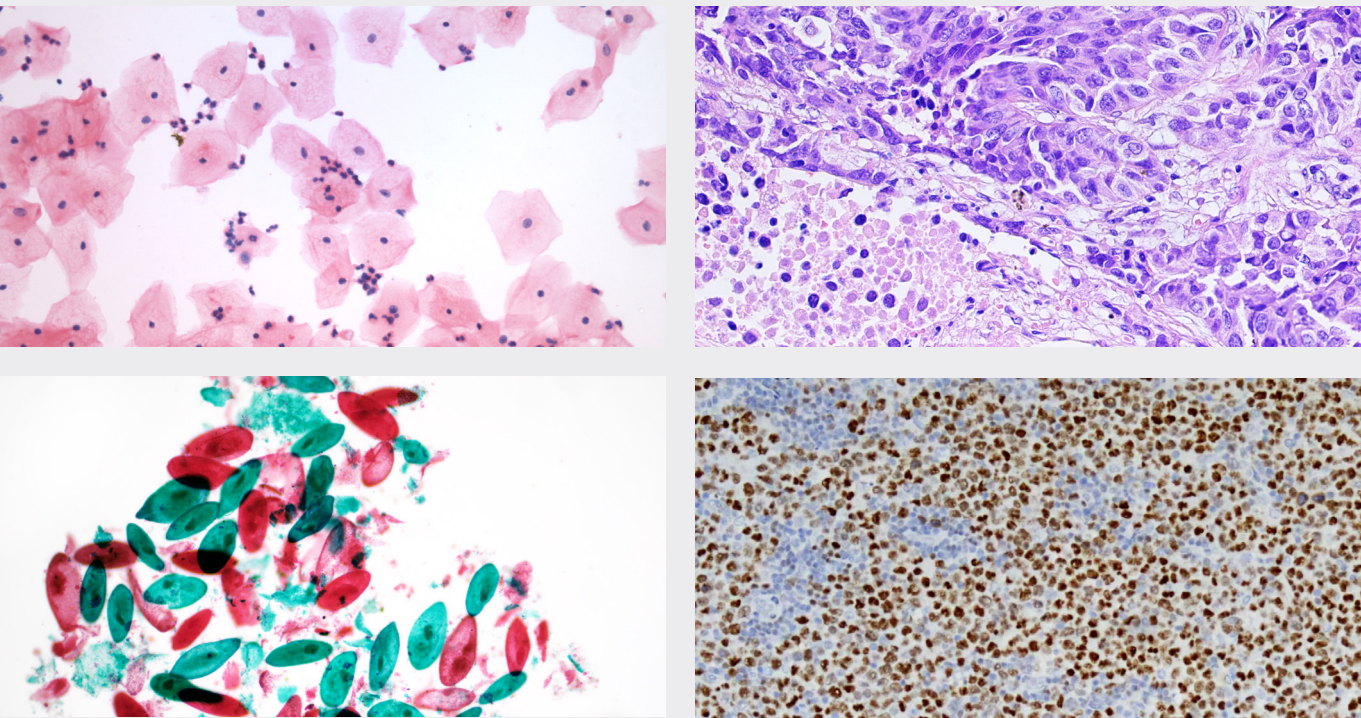
NIS Series Plan-Achromatic Objectives

NIS series plan-achromatic objectives feature excellent chromatic aberration correction and superior flat-field performance. With high numerical aperture and long working distance, they deliver ultra-sharp images and wide application coverage. They restore authentic colors and enable precise observation of specimens.



20mm Wide Field of View

Fitted with tubes and eyepieces featuring a 20mm field of view, wider than the 18mm view of traditional models. It enables faster specimen scanning and greatly boosts working efficiency.



Simple & Intuitive

Enhance user-friendliness for beginners

Comfortable & Safe Focus Knob

The low-position focus knob allows users to rest hands and forearms on the desktop during operation with adjustable torque for greater comfort. It comes with upper limit locking function. Once locked, it prevents accidental collision between objectives and slides, effectively protecting specimens and lenses from damage.



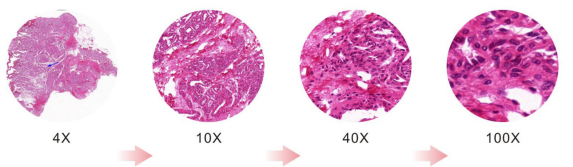
Intelligent Design

Beginners often feel flustered when switching magnification, adjusting brightness and color temperature during observation. This microscope simplifies repetitive mechanical operations and displays real-time status on the screen, boosting efficiency and delivering comfortable user experience.



Brightness Memory Function

It can store the lighting brightness preset for each objective lens. The light intensity will adjust automatically when switching between different objectives, relieving visual fatigue and improving work efficiency.



System Overview



1 NE300 Microscope

20mm field of view
4-position objective turret
Microscope status display screen

2 Eyepiece

10×/20 widefield eyepiece for a broader viewing range

3 Observation Tube

Hinged binocular tube
Hinged trinocular tube
Integrated digital observation tube
Integrated digital observation tube (with wireless display screen)

4 Objective Turret

4-position nosepiece with comfortable grip for smooth operation

5 Stage

Synchronous belt-driven platform with no protrusions on the left/right sides, ensuring smoother operation—ideal for beginners

6 Condenser

Plug-in condenser (NA 1.25) with adjustable aperture. The aperture stop position can be directly set; markings on the aperture diaphragm match the color rings of the objectives for easy alignment

7 Right-Hand Coarse & Fine Focus Controls

These coaxial focus knobs come standard with a torque adjustment ring, allowing users to fine-tune the knob resistance for more comfortable operation, ideal for users who work with the microscope for extended periods

9 Microscope Status Display

Located at the front of the microscope, the display allows users to view key status information at a glance, including objective magnification, light intensity, color temperature, and light source settings

8 Left-Hand Coarse & Fine Focus Controls

The left-hand controls include a built-in stage upper limit stop, which restricts the maximum vertical travel of the stage to protect both objectives and specimens from accidental collisions

10 Cable Management System

A built-in cable organizer on the rear panel neatly contains excess power cords, improving laboratory tidiness and reducing tripping hazards during transport

NE300 Biological Microscope Specifications

	NE300 Binocular Model	NE300 Trinocular Model	NE300 Trinocular Model	NE300 All-in-One Digital Screen Model
Optical System	NIS Infinity Optical System			
Illumination System	High-brightness White 3W LED Light Source			
Display Screen	LCD screen with magnification display, scheduled sleep, brightness indication, color temperature control and locking functions			
Eyepiece / Field Number	EW10X/20, diopter adjustable			
Tube	Hinged Binocular Tube	Hinged Trinocular Tube	Integrated Digital Observation Tube	Integrated Digital Observation Tube (with Wireless Display Screen)
Nosepiece	Encoded Inner-facing 4-position Nosepiece			
Stage	Synchronous belt-driven mechanical stage, size: 180 mm × 130 mm, with specimen holder and scale, travel range: 74 mm × 30 mm			
Objective Lenses	Plan Achromatic Objective 4X Plan Achromatic Objective 10X Plan Achromatic Objective 40X Plan Achromatic Objective 100X			
Condenser	Insertable Condenser, NA 1.25			
Observation Method	Brightfield			

Dimension

(Unit: mm)

