



ECLIPSE Ni/Ci Upright Microscope

ECLIPSE *Ni/Ci*

Upright Microscope



Shedding New Light On **MICROSCOPY**

Feel the evolution

Nikon has drawn on its proven optics and mechanical design technologies to develop the compact and high-performance ECLIPSE Ci series research microscope.

Ci-E and Ci-L plus adopt Nikon's unique, high-intensity LED as the light source for diascopic observation. High-quality objectives and high S/N epi-fluorescence attachments provide bright and high contrast fluorescence images. Image capture of specimens is easy and efficient when the microscope is configured with Nikon Digital Sight series cameras. With its high-optical performance and advanced easy control, the ECLIPSE Ci series supports research using a broad range of illumination techniques including phase contrast, darkfield and simple polarizing.

Ci

- High-intensity, uniform LED illumination (Eco-illumination)
- Epi-fluorescence attachments equipped with noise terminator mechanism
- Reliable high-performance objectives
- Observation and image capture with comfortable posture
- Motorized magnification switching by the push of a button (Ci-E)
- Automatic adjustment of light intensity and scale display linked to magnification switching
- Simple image capturing by the push of a button on the microscope
- Enables a wide variety of observations



Configuration of Ci-L plus with epi-fluorescence attachment and Digital Sight 10 camera

High quality images powered by Nikon's reputed optical technologies

Nikon's well-reputed optical technologies enable the capture of sharp and high quality images in a wide variety of techniques, including brightfield and epi-fluorescence observations.

The epi-fluorescence attachments of the ECLIPSE Ci series allow weakly fluorescent specimens to be captured with great clarity and brightness.

Epi-fluorescence attachments

The ECLIPSE Ci series has the option of a dedicated compact epi-fluorescence attachment capable of accepting 4 filter cubes. The noise terminator mechanism allows bright, high-contrast, high signal to noise (S/N) ratio fluorescence image capturing.

The name and position of the mounted filter cubes are displayed with phosphorescent labels for easy identification in darkened rooms. The filters or dichroic mirrors in the filter cubes can be easily replaced to create a more specific combination.



CI-FL-2 Epi-fluorescence Attachment

High-optical performance objectives

● CFI Plan Apochromat Lambda D series

These lenses provide uniform brightness and high image quality up to the edge of the large field of view of FN 25, and their high transmittance and chromatic aberration correction over a wide wavelength range from 405 nm to 850 nm make them ideal for multicolor fluorescence observation. The new design, which expands the effective diameter of the lens, improves NA and provides bright and clear images.



● CFI Plan Fluor series

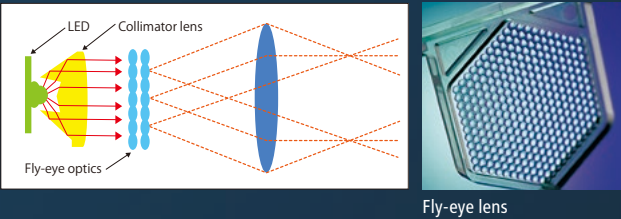
Featuring an extra-high transmission rate, especially in the ultraviolet wavelength, combined with flatness of field, this series is perfect for fluorescence observation and imaging. These objectives can function as multi-purpose objectives for brightfield, fluorescence and simple/sensitive color polarizing observations.



Unparalleled basic performance

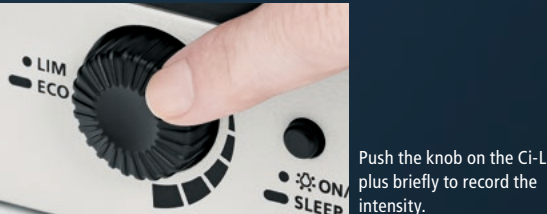
Eco-illumination

By combining a collimator lens, fly-eye optics and LED illumination, bright and uniform images up to the periphery can be obtained. The LED is a low power consumption unit that reduces lamp replacement frequency thanks to its long-life, and provides the same color temperature in every magnification.



Auto light intensity reproduction

The user-defined light intensity for each objective is recorded by pressing a knob for Ci-L plus, and automatically recorded for Ci-E. The light intensity level is automatically recalled and applied when the objective is used again, eliminating the need for manual readjustment.



Automatic scale bar adjustment linked to magnification change

The Ci-E/Ci-L plus nosepiece detects the state of the objective in use and automatically adjusts the scale bar in the image based on the magnification, eliminating the need for manual adjustment.

*Requires dedicated camera and software (optional).



Image capture button

Imaging with the Digital Sight series cameras is possible with the one touch button located on the microscope base.

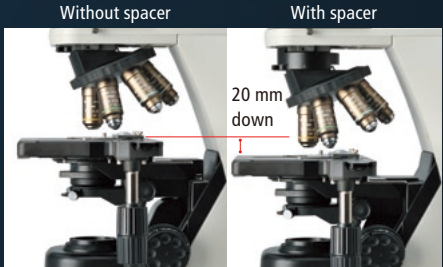


Adjustable design to suit the user's natural posture

The angle and extension of the ergonomic binocular tube can be adjusted while mounting a camera. The height of the stage and its handle can be adjusted, enabling observation in a comfortable posture.



The ergonomic binocular tube can be inclined from 10 ° to 30 ° and extended up to 40 mm. The tubes can also be lifted in 25 mm increments using the eyelevel riser.



The stage height can be lowered 20 mm from the standard position by adding a nosepiece spacer, facilitating frequent specimen change.



The stage handle height can be changed to ensure a comfortable hand position.

Motorized magnification switching model Ci-E

Nosepiece rotating buttons

The nosepiece can be rotated with one-touch button control. Your two favorite magnifications can be registered*, and one press of the button alternates between these two objectives.

* Using the remote control pad.



Remote control pad

By programming specific buttons to correspond to specific objectives, magnification can be easily changed with a one touch button.



Automatic adjustment linked to objective switching

When the objective is switched, not only is the user-defined light intensity reproduced, but also the top lens element of the condenser automatically swings in or out according to the selected objective.



Versatile diascope observation techniques

● Phase contrast

Eco-illumination has sufficient light intensity for phase contrast microscopy that is used in a wide range of applications including dermatological examinations.



● Darkfield

Enables clear observation of blood or the minute structure of flagella. Dry- and oil-type condensers are available. The expander lens is used to obtain illumination with greater brightness.



Left: C-DD Dark Field Condenser Dry
Right: C-DO Dark Field Condenser Oil

● Simple polarizing

This is ideal for observing bi-refringent samples such as collagen, amyloids and crystals.

*Two types of analyzer are available: intermediate tube type and nosepiece slider type.

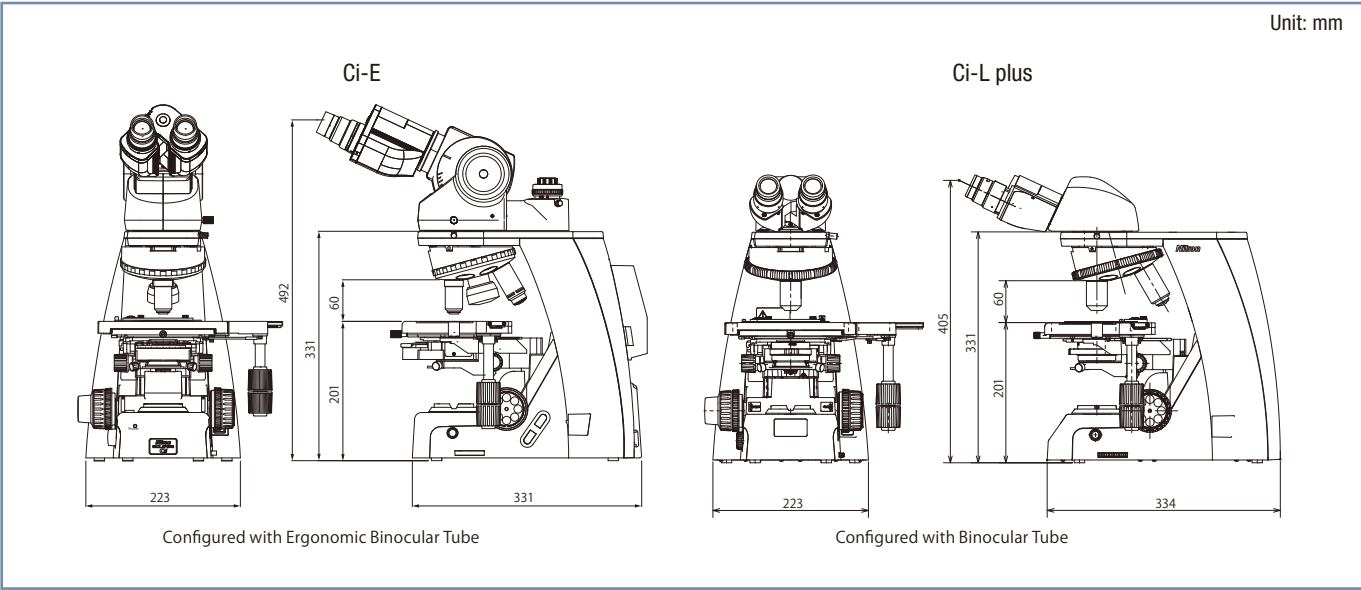


Ci Specifications

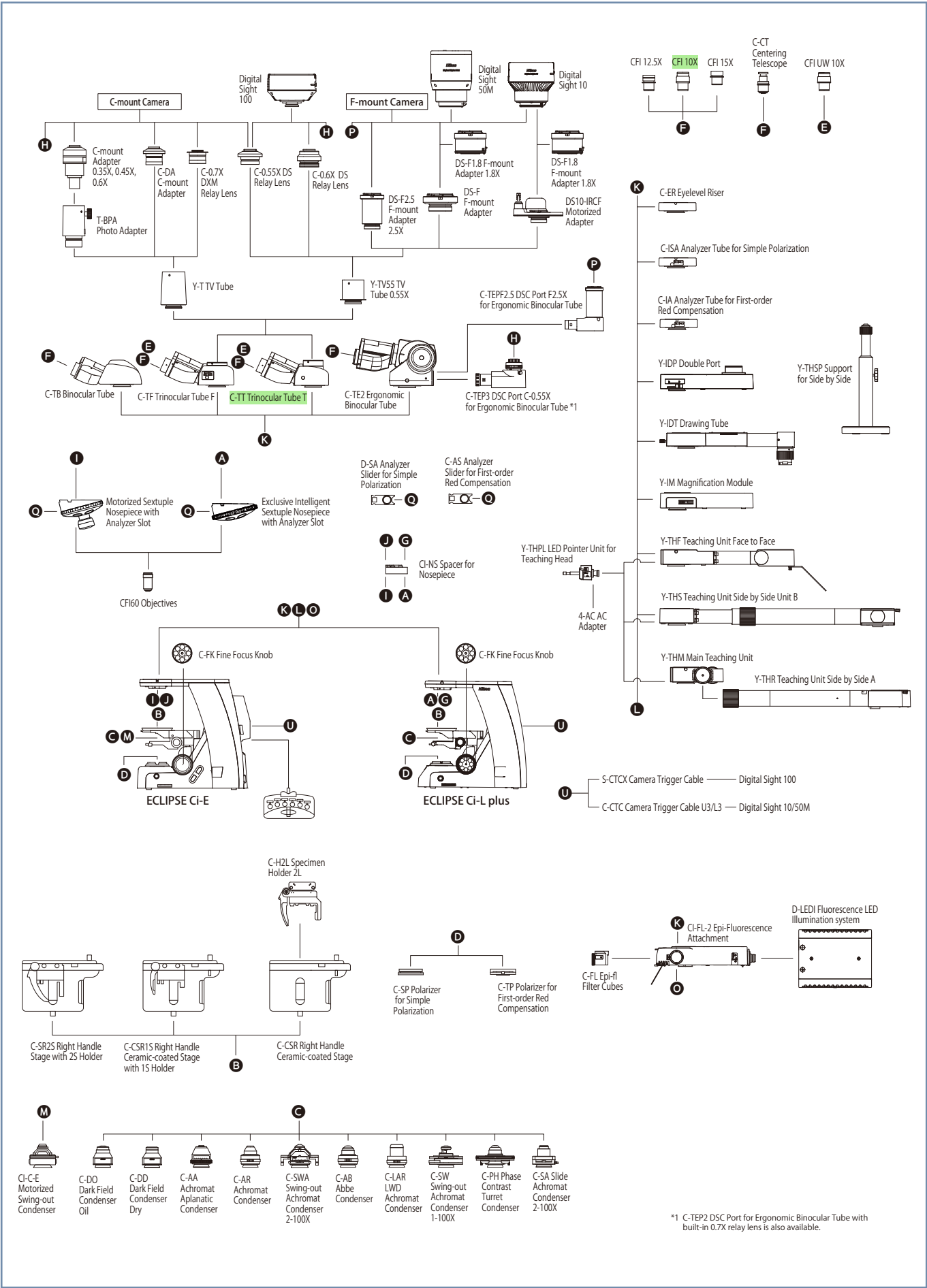
		Ci-E	Ci-L plus
Main body	Optical system	CFI60 Infinity Optical System	
	Illumination	High luminescent White LED Illuminator (Eco-illumination)	
		Automatic intensity reproduction function	Light Intensity Management (LIM) feature for auto intensity reproduction, with ECO mode*1 and Sleep mode*2
	Controls	Image capture button	
		Nosepiece rotating buttons Remote control pad	—
	Eyepieces (FN)	Sleeve diameter ø 30 mm · CFI 10X (22) · CFI 12.5X (16) · CFI 15X (14.5) · CFI UW 10X (25)	
Tubes	FN 22	Coaxial Coarse/Fine focusing, Focusing stroke: 30 mm, Coarse: 9.33 mm/rotation, Fine: 0.1 mm/rotation, Minimum reading: 1 µm Coarse motion torque adjustable, Refocusing function	
		· C-TB Binocular Tube · C-TE2 Ergonomic Binocular Tube (Eyepiece:Port=100:0, 50:50 via optional C-TEP2 DSC Port, C-TEP3 DSC Port C-0.55X or C-TEPF2.5 DSC Port F2.5X) Inclination angle: 10-30 degree, Extension: up to 40 mm	
	FN 25	· C-TF Trinocular Tube F (Eyepiece:Port=100:0, 0:100) · C-TT Trinocular Tube T (Eyepiece:Port=100:0, 20:80, 0:100)	
Nosepieces		· Motorized Sextuple Nosepiece with Analyzer Slot (Included with Ci-E) Switching between two objectives function*3	· Exclusive Intelligent Sextuple Nosepiece with Analyzer Slot (Included with Ci-L plus)
Stages		Cross travel 78 (X) × 54 (Y) mm, with vernier calibrations, stage handle height and torque adjustable for all stages · C-SR2S Right Handle Stage with 2S Holder · C-CSR1S Right Handle Ceramic-coated Stage with 1S Holder · C-CSR Right Handle Ceramic-coated Stage (C-H2L Specimen Holder 2L is optional)	
Condensers (NA)	Motorized	· CI-C-E Motorized Swing-out Condenser (0.90/0.22) Focusing stroke: 27 mm	—
	Manual	Focusing stroke: 27 mm · C-AB Abbe Condenser (0.90) · C-AR Achromat Condenser (0.80) · C-DO Darkfield Condenser Oil (1.20-1.43) · C-DD Darkfield Condenser Dry (0.80-0.95) · C-PH Phase Contrast Turret Condenser (0.90) · C-AA Achromat/ Aplanat Condenser (1.40) · C-SA Slide Achromat Condenser 2-100X (0.90) · C-SW Swing-out Achromat Condenser 1-100X (0.90/0.11) · C-SWA Swing-out Achromat Condenser 2-100X (0.90/0.22) · C-LAR LWD Achromat Condenser (0.65)	
Observation methods*4		Brightfield, Epi-fluorescence, Darkfield, Phase contrast, Simple polarizing, Sensitive color polarizing	
Epi-fluorescence attachment		· CI-FL-2 Epi-fluorescence Attachment (4 filter cubes mountable)	
Epi-fluorescence light source		· D-LED1 Fluorescence LED Illumination system (32W)	
Power consumption		13W (Brightfield configuration)	5W (Brightfield configuration)
Weight (approx.)		15.4 kg (Binocular standard set)	13.3 kg (Binocular standard set)

*1 Energy saving feature that turns off the illumination and LCD to put it into a low power consumption state (sleep mode) after a certain period of inactivity.
*2 Standby state with low power consumption, though it is always energized while the dedicated AC adapter is connected.
*3 Settings with the remote control pad are required.
*4 Optional accessories are required for observations other than brightfield.

Ci Dimensional Diagram



Ci System Diagram



The Digital Sight series and Imaging Software NIS-Elements are not for clinical diagnostic use.

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Appropriate export procedure shall be required in case of export from Japan.
*Products: Hardware and its technical information (including software)
Monitor images are simulated.



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
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