



Feel the evolution

Nikon developed the clinical and laboratory microscope ECLIPSE Ci series to meet the demands of a microscope that provides comfortable posture during observation and simple set-up, such as magnification switching, light intensity reproduction and image capturing. With its small footprint, the Ci series delivers compact and space-saving observation conditions. Nikon also developed the ECLIPSE Ni series, which offers high optical quality and a wide range of imaging possibilities. The highly-evolved Ci/Ni series microscopes enable routine analysis with more comfort and greater flexibility than ever before.

ECLIPSE **C**i

Eco Friendly

High-intensity, long-life and power saving illumination

Ergonomic

Flexible, adjustable design to suit the user's natural posture

Easy to Use

One-touch operation for microscope* control and image capturing

Versatile

Flexible observation with a wide range of specimens

*Ci-E

ECLIPSE

Ni

High-quality

Superior optical performance

Expandability

Wide variety of optional motorized accessories

Automation*

Intelligent, automatic switching of observation methods

*Ni-E

Meeting user needs in clinical microscopy

I want to easily capture images.

I want to conduct observation in comfort.

I want to observe images with bright and even illumination.

I want to reduce the number of lamp replacements. I want to simplify operation with motorized accessories.

I want to use a variety of observation techniques.

ECLIPSE **C**i

The Ci meets all your demands.

The ECLIPSE Ci series microscopes offer a bright field of view, high durability, comfortable posture for prolonged observation, simple motorized operation, and various illumination techniques that you need for clinical and laboratory microscopy.

Eco Friendly

Eco-illumination (Ci-E/Ci-L)

Nikon's unique high luminescent LED is a low power consumption eco-friendly light source that produces evenly distributed illumination and reduces the cost and effort of lamp replacement thanks to its long-life.





*These images are captured without using the shading compensation to emphasize the vignetting.

Viewed with Eco-illumination

Viewed without Eco-illumination

Ceramic-coated stage

The stage is coated with high durability scratch-resistant coating.



Ergonomic

Ergonomic binocular tube

Eyepiece angle and extension are adjustable. A camera can be mounted via the DSC port.

Eyelevel riser

Eye-point height can be adjusted to suit your natural posture and increases flexibility for multi-users of different heights.

Lower stage positioning

Lower stage height using the nosepiece spacer for easy specimen exchange.

Stage handle with height adjustment

Smooth stage movement is possible in a comfortable hand position.



Ergonomic binocular tube

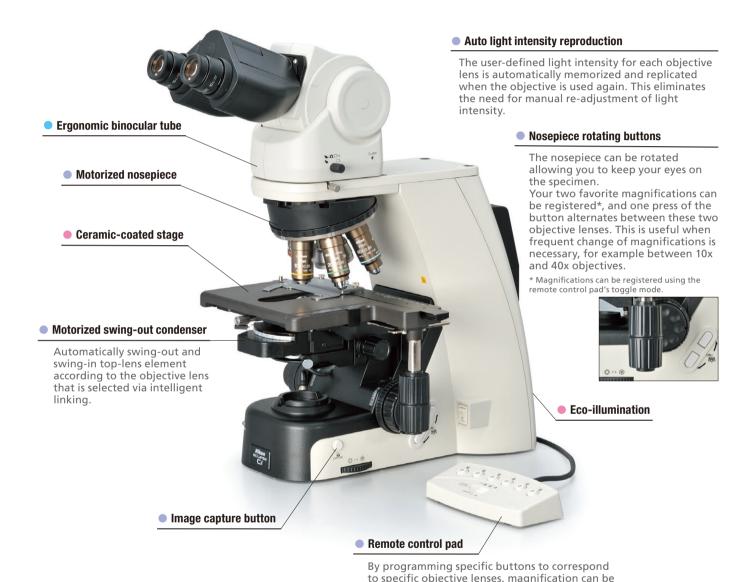


Nosepiece spacer









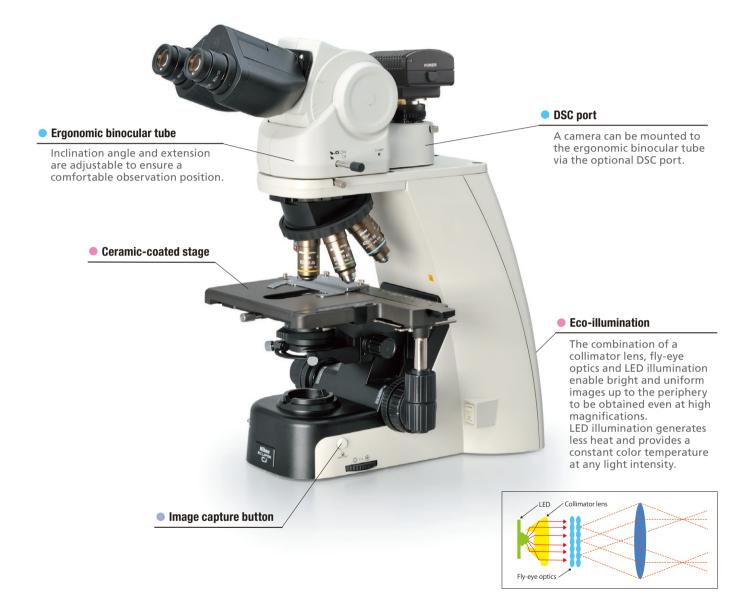
Provides streamlined observation with motorized operation

easily changed with a one-touch button.

Motorized model with LED illumination

Equipped with motorized magnification switching and automatic intensity reproduction, it is ideally suited to applications and sample analysis that require frequent magnification switching.





High-intensity and uniform Eco-Illumination

Manual model with LED illumination

Featuring Eco-illumination bright enough for phase contrast and simple polarizing microscopy while reducing lamp replacement with a long-life of 60,000 hours.



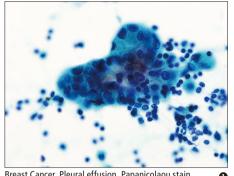
Enhanced basic performance for observation

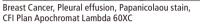
Manual model with halogen illumination

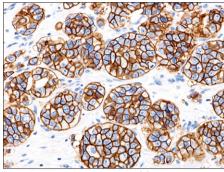
With a small footprint and superior operability the ECLIPSE Ci series offers a comfortable, ergonomic viewing position.

Versatile observation techniques

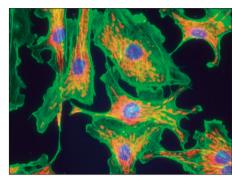
Using accessories, the Ci-E, Ci-L and Ci-S enable various observation techniques to meet the demands of a wide range of uses, from clinical examination to research.



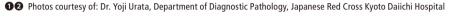


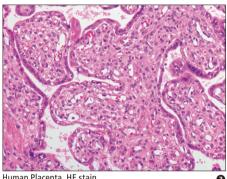


Breast Cancer, HER2/neu, Immunostaining, CFI Plan Apochromat Lambda 40XC

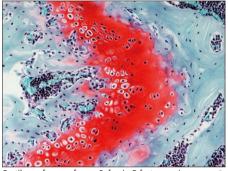


Epi-fluorescence

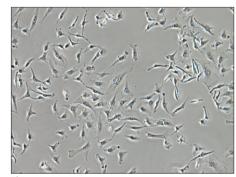




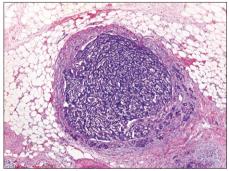
Human Placenta, HE stain, CFI Plan Apochromat Lambda 10X



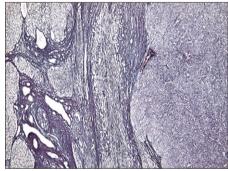
Cartilage of mouse femur, Safranin O fast green iron hematoxylin stain, CFI Plan Apochromat Lambda 10X



34 Photos courtesy of: Dr. Atsushi Furuhata and Noriyoshi Sueyoshi, Assistant General Manager, Laboratory of morphology and image analysis, Graduate School of Medicine, Juntendo University



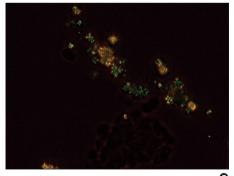
Pancreas Neuro-endocrine Tumor, HE stain, CFI Plan Apochromat Lambda 4X



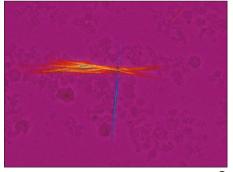
HCC, Silver stain, CFI Plan Apochromat Lambda 4X



🔞 Photos courtesy of: Kazuhiro Muraoka, Photography Division, Imaging Information Research Center, Tokyo Women's Medical University



2,8-Dihydroxyadenine crystals, Simple polarizing, CFI Plan Fluor 40X



Sodium urate crystals, Sensitive color polarizing,

78 Photos courtesy of: Department of Clinical laboratory, Nihon University Itabashi Hospital

Digital imaging evolved

In response to user demand for the easy capture of sample images, the ECLIPSE Ci series has a built-in dedicated capture button on the microscope base. An optional imaging software supports simple camera settings and operation including capturing and measuring.

Image capture button

Image capturing with the digital camera Digital Sight series is possible with the one-touch button located on the microscope base, thereby improving workload efficiency.



NIS-Elements L imaging software



The NIS-Elements L imaging software featuring simple and user-friendly GUI allows easy camera setting and image capturing using DS-Ri2 and DS-Fi3 microscope cameras.

- Enables easy image acquisition and storage using a tablet PC*, facilitating effective sharing of images and presentations. Also supports touch screen operation.
- Movie recording time is approximately 30 minutes.
- Scene modes function provides the appropriate camera setting for each sample.
- Split-screen display function allows comparison between live and saved images.
- Simple measurement functions for length, area and angles.
- Graticule scale display such as hairline and grid.
- Annotation function enables the addition of arrows and markers to images.
- During observation, live and captured images can be shared on a large screen monitor or projector.
- * For information about compatible tablet PCs, contact Nikon.



Basic camera setting

Simple camera settings such as resolution, exposure and gain are



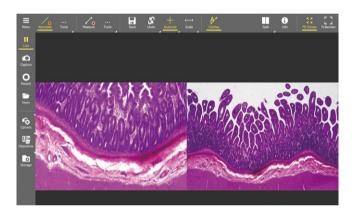
Scene modes

The scene modes function enables the optimal camera setting for each sample and imaging technique by simply choosing the type of illumination or stain.



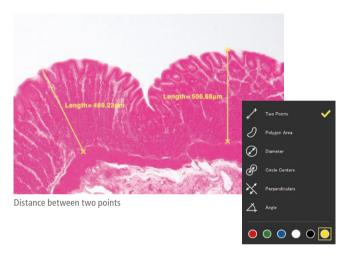
Split-screen display

The split-screen display function enables real-time comparisons between live and captured images by displaying them side-byside and synchronizing zooming between both images.



Measurement

Simple measurement functions, such as distance measurement between two points, are available.



Digital Sight series microscope cameras

Nikon provides digital cameras that are optimized for microscopic imaging. Users can select the most suitable camera for their samples and observation techniques.

Microscope Camera DS-Fi3



5.9 megapixel Color High-definition

Equipped with a 5.9 megapixel CMOS image sensor. Enables fast and easy acquisition of images with superior color reproduction and high sensitivity during various observations, such as brightfield, DIC, phase contrast and epi-fluorescence.

Microscope Camera



Equipped with FX-format 16.25-megapixel CMOS sensors, the DS-Ri2 is perfect for capturing ultra-fine structures. It enables brightfield imaging with superior color reproduction and fast frame rates, as well as high sensitivity fluorescent imaging.

Ci accessories meet additional demands of

I want to observe using fluorescent microscopy.

The ECLIPSE Ci series has the option of two dedicated compact epi-fluorescence attachments, CI-FL Epi-fluorescence Attachment (4 filter cubes mountable) and D-FL Epi-fluorescence Attachment (6 filter cubes mountable).



I want to observe specimens

with a wider field of view.

with an F.N. of 25mm in combination

with a trinocular tube T and trinocular

tube F enables wide field microscopy.

Attaching the CFI UW 10X eyepiece lens

I want to perform gout tests.

Eco-illumination is compatible with sensitive color polarizing microscopy, and gout tests can be conducted by observing uric acid crystals.







Sensitive color polarizing accessories

I want to use phase contrast microscopy with LED illumination.

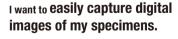
Eco-illumination has sufficient light intensity for phase contrast microscopy that is used in a wide range of applications including dermatological examinations.



Phase contrast accessories

I want to reduce the number of times I switch the condenser.

An optional achromat swing-out condenser is compatible with a wide range of magnifications, between 1X to 100X.



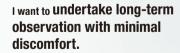
You can mount a camera on a trinocular tube T, trinocular tube F or an ergonomic binocular tube. Imaging in a comfortable position is possible with an ergonomic binocular tube by mounting the camera via the DSC port. Imaging is possible by simply pushing the image capture button.







Ergonomic binocular tube



The ergonomic binocular tube can be inclined from 10° to 30° and extended up to 40mm.

The eyelevel riser lifts the tube in 25mm increments (up to 100mm*).

* Up to 50mm with ergonomic binocular tube.





Trinocular tube T

Trinocular tube F

users

I want to observe the same view field simultaneously with another person

The teaching head enables multiple peoples to observe the same specimen simultaneously. A bright and long-life LED is employed in the pointer.

* 3-person type and 5-person type are also available.



Without spacer

With spacer

Side-by-side type Face-to-face type

_{I want to} be able to quickly and safely change the specimen.

The stage height can be locked using the re-focusing knob, and this facilitates safe refocusing after changing the specimen.

I want to use various objective lenses.

Nikon provides a broad range of objective lenses, such as the CFI Plan Achromat series, which is affordably priced and has high image flatness, the CFI Plan Fluor series, which is suitable for fluorescence microscopy, and the CFI Plan Apochromt Lambda series, with its superior resolution, brightness and chromatic aberration correction.







Left: CFI Plan Achromat series; middle: CFI Plan Fluor series; right: CFI Plan Apochromat Lambda series

I want more user-friendly stage operation.

The stage height can be lowered 20mm 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.



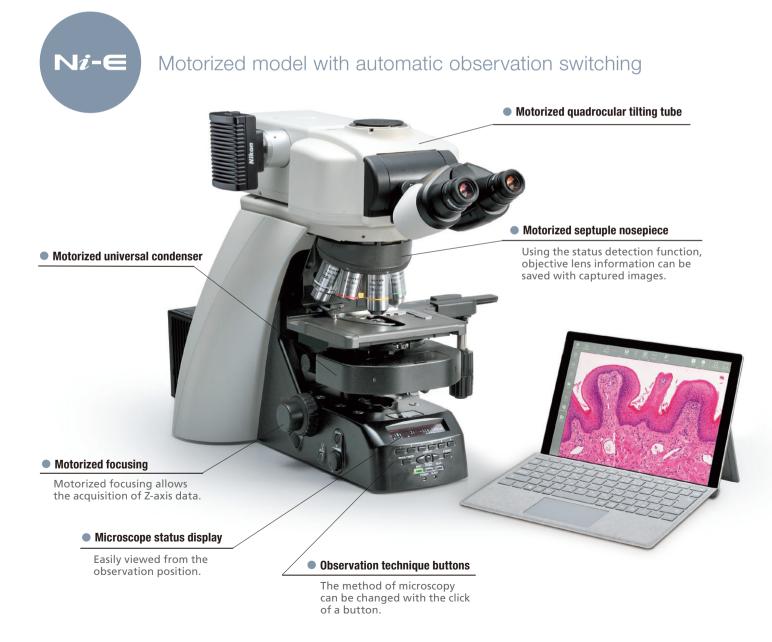
ECLIPSE **N**i

Two flagship upright microscopes

The newly developed upright microscope ECLIPSE Ni series has high expandability, motorization, and superior optical performance.

Ni-E is a fully motorized model provides the most suitable observation settings without manual adjustment. The aperture and field diaphragm or condenser is automatically adjusted when the magnification is changed.

Ni-U is suitable for many observations, from clinical examination to research, and featuring motorized accessories that include nosepiece, fluorescence attachment, and shutter.



Fly-eye optics

The fly-eye optics built into the transmitted-light illumination system provides bright and uniform illumination across the entire field of view.



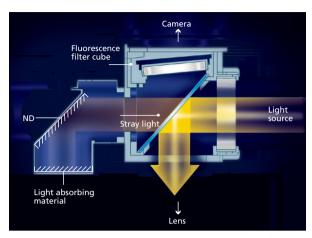
Superior optical performance

Nikon offers high quality optical technologies such as exclusive low-reflective Nano Crystal Coat to produce objective lenses. The CFI Plan Apochromat Lambda series objective lenses offer remarkably high transmission and superior chromatic aberration correction throughout a broad range of wavelengths and are suitable for near-IR observation.



Noise terminator

The noise terminator mechanism is equipped with fluorescent filter cubes and turrets that eliminate stray light, and enables you to capture high contrast fluorescence images with a high S/N ratio.





Rotatable ceramic-coated stage

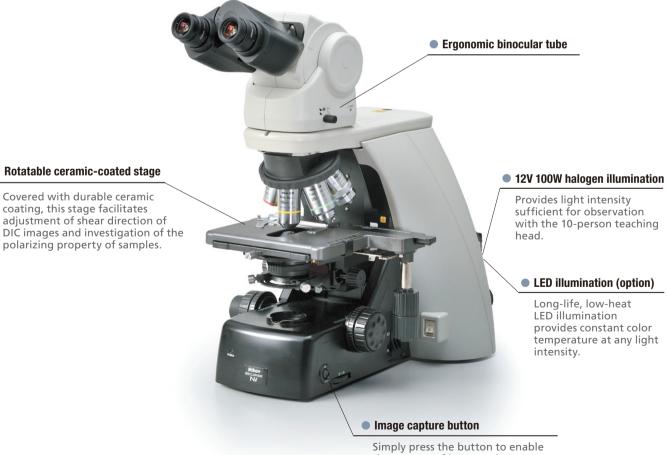
Covered with durable ceramic

adjustment of shear direction of

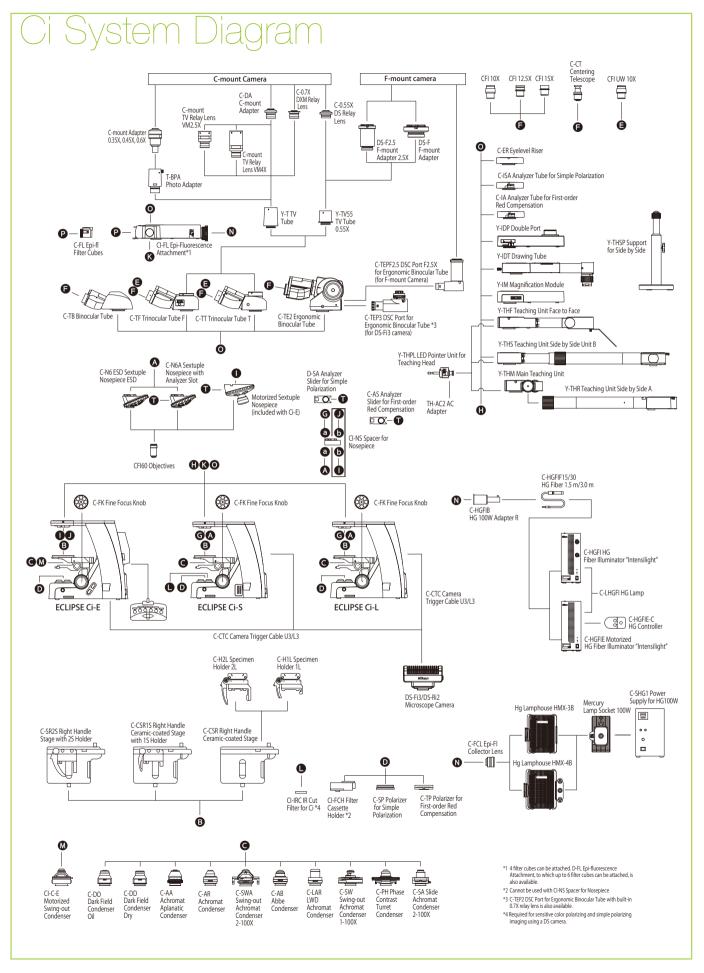
polarizing property of samples.

coating, this stage facilitates

Manual model with motorization capability



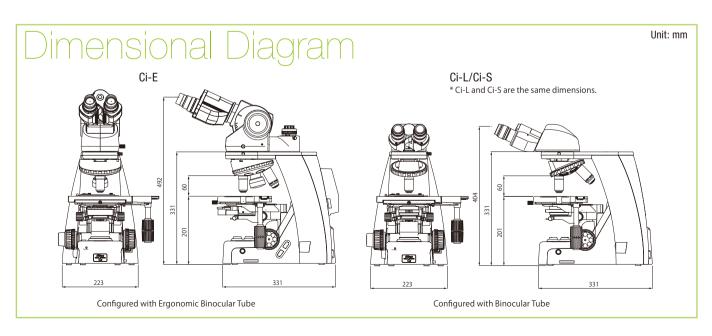
the capture of images when mounting a Digital Sight camera (equipped with both Ni-U and Ni-E).



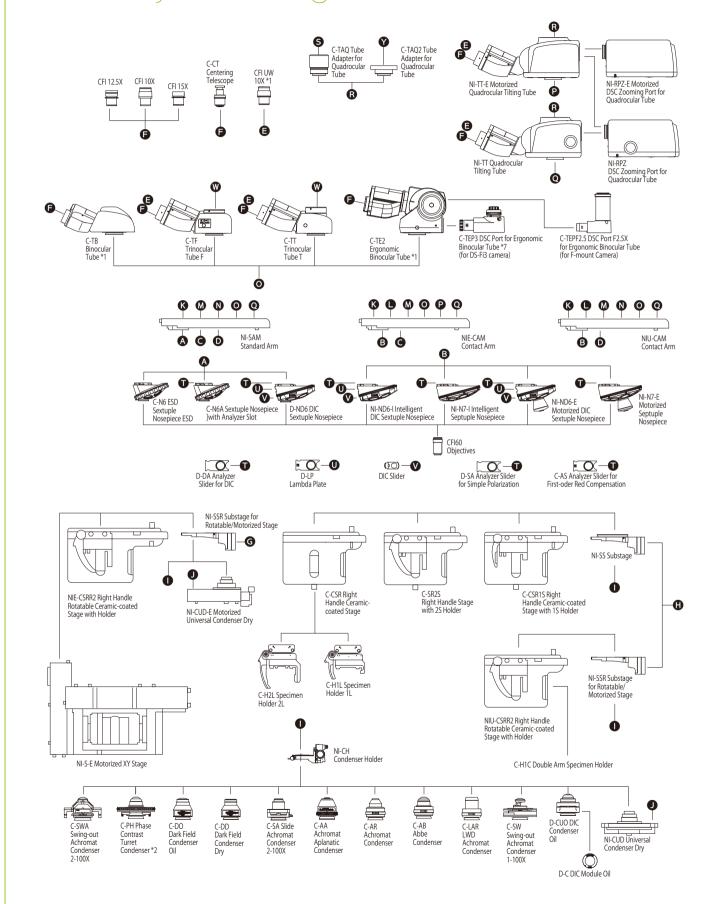
Specifications

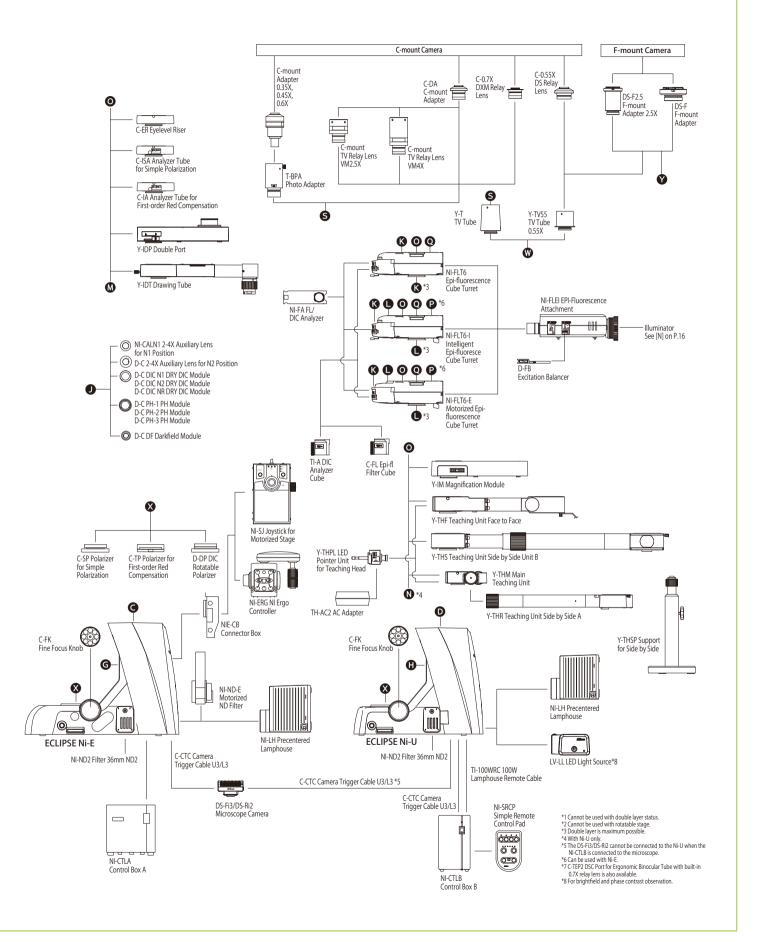
		Ci-E	Ci-L	Ci-S
Main body	Optical system	CFI60 Infinity Optical System		
	Illumination	High luminescent White LED Illuminator (Eco-illumination)		6V30W Halogen Lamp Built-in ND4, ND8, NCB11 filters
		Automatic intensity reproduction function	_	
	Controls	Image capture button		
		Nosepiece rotating buttons Remote control pad	_	ND filter IN/OUT switches
	Eyepieces (F.O.V. mm)	· CFI 10X (22) · CFI 12.5X (16) · CFI 15X (14.5) · CFI UW 10X (25)		
	Focusing	Coaxial Coarse/Fine focusing, Focusing stroke: 30 mm, Coarse: 9.33 mm/rotation, Fine: 0.1 mm/rotation Coarse motion torque adjustable, Refocusing function		
Tubes	F.O.V. 22 mm (Eyepiece/Port)	- C-TB Binocular Tube - C-TE Binocular Tube - C-TE2 Ergonomic Binocular Tube (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		
	F.O.V. 25 mm (Eyepiece/Port)	· C-TF Trinocular Tube F (100/0, 0/100) · C-TT Trinocular Tube T (100/0, 20/80, 0/100)		
Nosepieces		Motorized Sextuple Nosepiece with Analyzer Slot (Within main body) Switching between two objectives function	· C-N6 ESD Sextuple Nosepiece ESD · C-N6A Sextuple Nosepiece with Analyzer Slot	
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 and C-H1L Specimen Holder 1L can be attached)		
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-DD 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-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*		Brightfield, Epi-fluorescence, Darkfield, Phase contrast, Simple polarizing, Sensitive color polarizing		
Epi-fluorescence attachment		CI-FL Epi-fluorescence Attachment (4 filter cubes mountable) D-FL Epi-fluorescence Attachmennt (6 filter cubes mountable) ND4/ND8/ND16 filters, Noise Terminator mechanism		
Epi-fluorescence light source		· C-HGFI/HGFIE HG Precentered Fiber Illuminator Intensilight (130W) · Hg Lamphouse and Power Supply (100W)		
Power consumption		13W (Brightfield configuration)	6W (Brightfield configuration)	38W (Brightfield configuration)
Weight (approx.)		15.4 kg (Binocular standard set)	13.4 kg (Binocular standard set)	13.4 kg (Binocular standard set)

 $[*]Observations\ except\ Bright field\ require\ optional\ accessories.$



Ni-E/U System Diagram





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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. March 2020 ©2011-20 NIKON CORPORATION



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