



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 **N**i

- High-quality
 Superior optical performance
- Expandability
 Wide variety of optional motorized accessories
- Automation* Intelligent, automatic switching of observation methods *Ni-E



ECLIPSE

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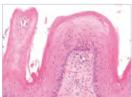
The Ci meets all your demands.

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.

mination Viewed without Eco-illumina

Ceramic-coated stage

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



Easy to use

Image capture button

One simple click of the button during observation enables you to capture your specimen image with the Digital Sight camera.

Motorized magnification change (Ci-E)

Magnification can be switched with one button control during observation, which automatically memorizes and reproduces user-defined light intensity.

NIS-Elements L Imaging Software

Images/movies can be easily acquired and stored using a tablet PC. A scene mode function, which provides easy camera settings, and simple measurement functions are also provided.







Versatile

Flexible observation methods

The high-intensity Eco-illumination and accessories enable you to perform phase contrast, darkfield and simple polarizing microscopy.

Image sharing

The live image can be displayed on the tablet PC monitor or via a projector.



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.



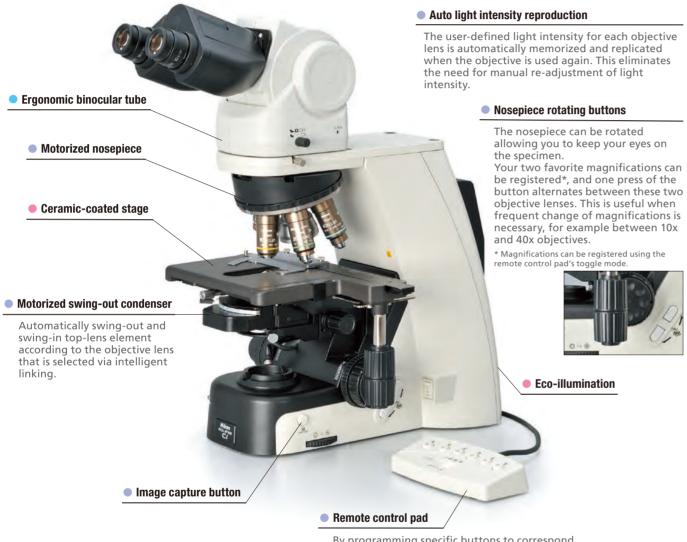
Ergonomic binocular tube



Nosepiece spacer







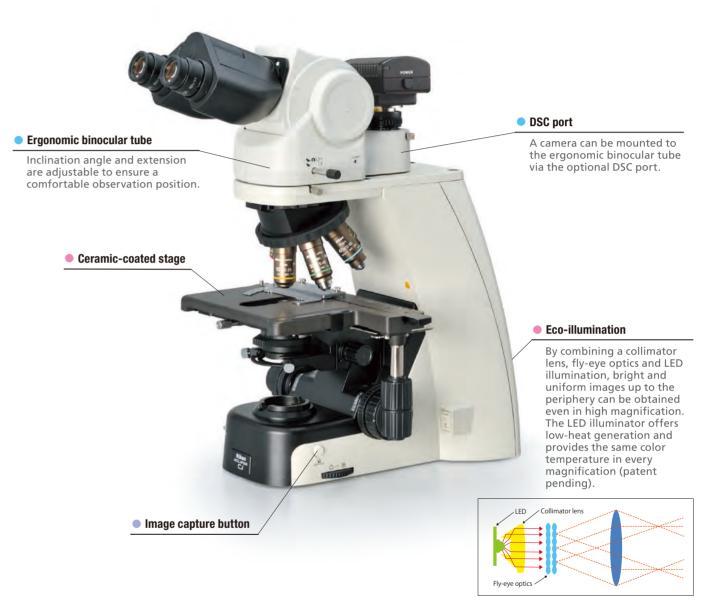
By programming specific buttons to correspond to specific objective lenses, magnification can be easily changed with a one-touch button.

Provides streamlined observation with motorized operation

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.





Space-saving compact design

Image capture button

The compact body with an extremely small footprint gives the user more desk space than ever.

Changing light intensity is possible by inserting and removing an ND (Neutral Density) filter. The NCB filter for color temperature compensation of the light source is built-in.

ND4/ND8 filter, NCB11 filter

Halogen illumination

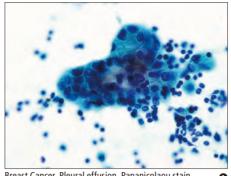
Enhanced basic performance for observation

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

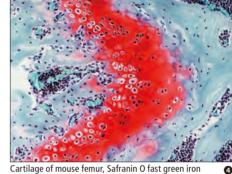
Breast Cancer, Pleural effusion, Papanicolaou stain,

CFI Plan Apochromat Lambda 40XC

Epi-fluorescence

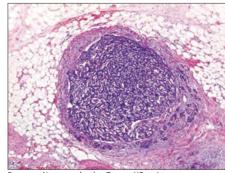
12 Photos courtesy of: Dr. Yoji Urata, Department of Diagnostic Pathology, Japanese Red Cross Kyoto Daiichi Hospital

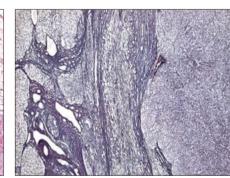
morphology and image analysis, Graduate School of Medicine, Juntendo University

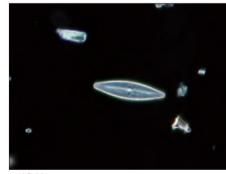


Human Placenta, HE stain,

hematoxylin stain, CFI Plan Apochromat Lambda 10X 34 Photos courtesy of: Dr. Atsushi Furuhata and Noriyoshi Sueyoshi, Assistant General Manager, Laboratory of



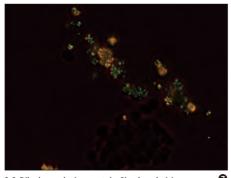


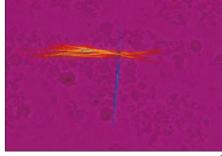


Pancreas Neuro-endocrine Tumor, HE stain CFI Plan Apochromat Lambda 4X

6 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,

Sodium urate crystals, Sensitive color polarizing,

98 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.
- * Nikon provides confirmed compatible tablet PCs with up-to-date specifications. Contact Nikon for details.



Basic camera setting

Simple camera settings such as resolution, exposure and gain are



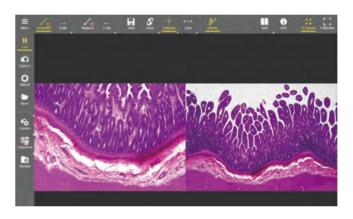
Scene modes

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



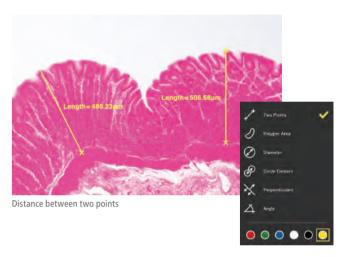
Split-screen display

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

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

High-definition 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 users

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.

light intensity for phase contrast microscopy that is used in a wide

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.



Eco-illumination has sufficient range of applications including dermatological examinations.



view field simultaneously with another person

I want to observe the same

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.



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 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.





I want to easily capture digital images of my specimens.

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.



Trinocular tube T

Trinocular tube F



Ergonomic binocular tube

12

I want to undertake long-term observation with minimal discomfort.

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





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

ECLIPSE Ni

Two flagship upright microscopes

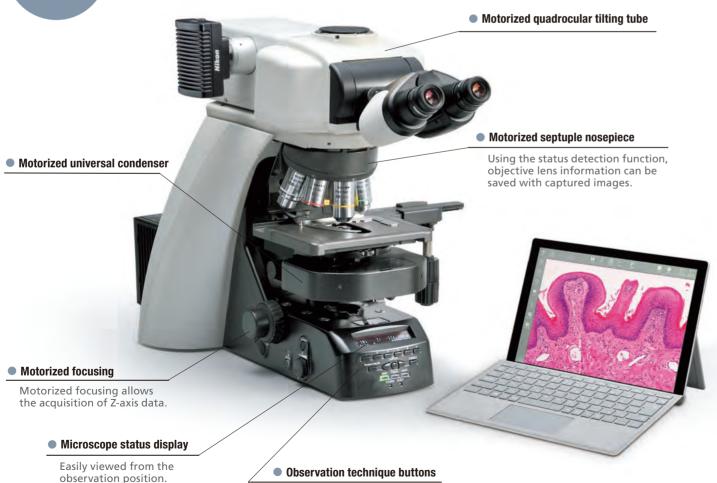
The newly developed upright microscope ECLIPSE Ni series has high expandability, motorization, and superior optical performance.

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.



Motorized model with automatic observation switching



The method of microscopy can be changed with the click

14

of a button.

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.



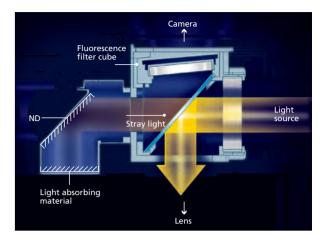
Superior optical performance

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.



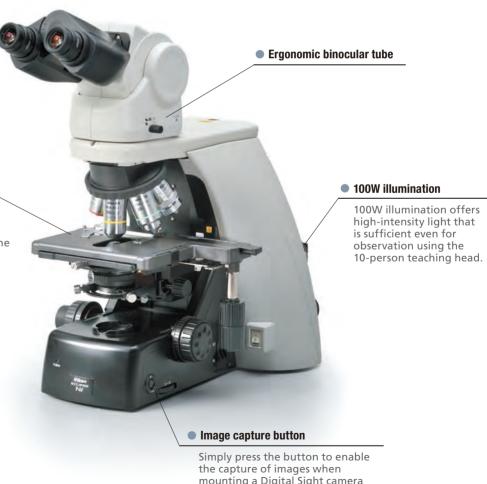
Noise terminator

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.



Ni-U

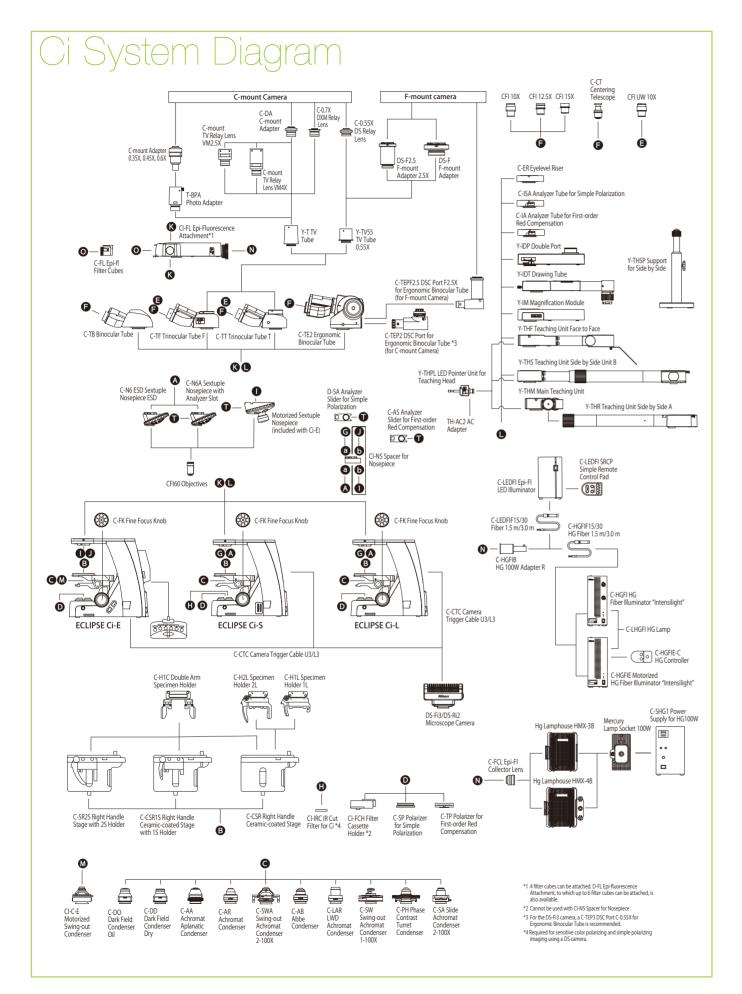
Manual model with motorization capability



Rotatable ceramic-coated stage

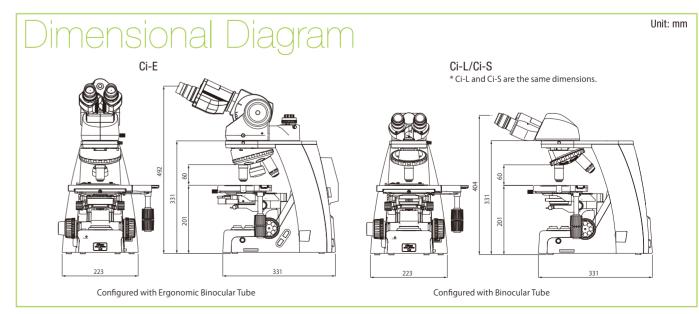
Covered with durable ceramic coating, this stage facilitates adjustment of shear direction of DIC images and investigation of the polarizing property of samples.

> mounting a Digital Sight camera (equipped with both Ni-U and Ni-E).

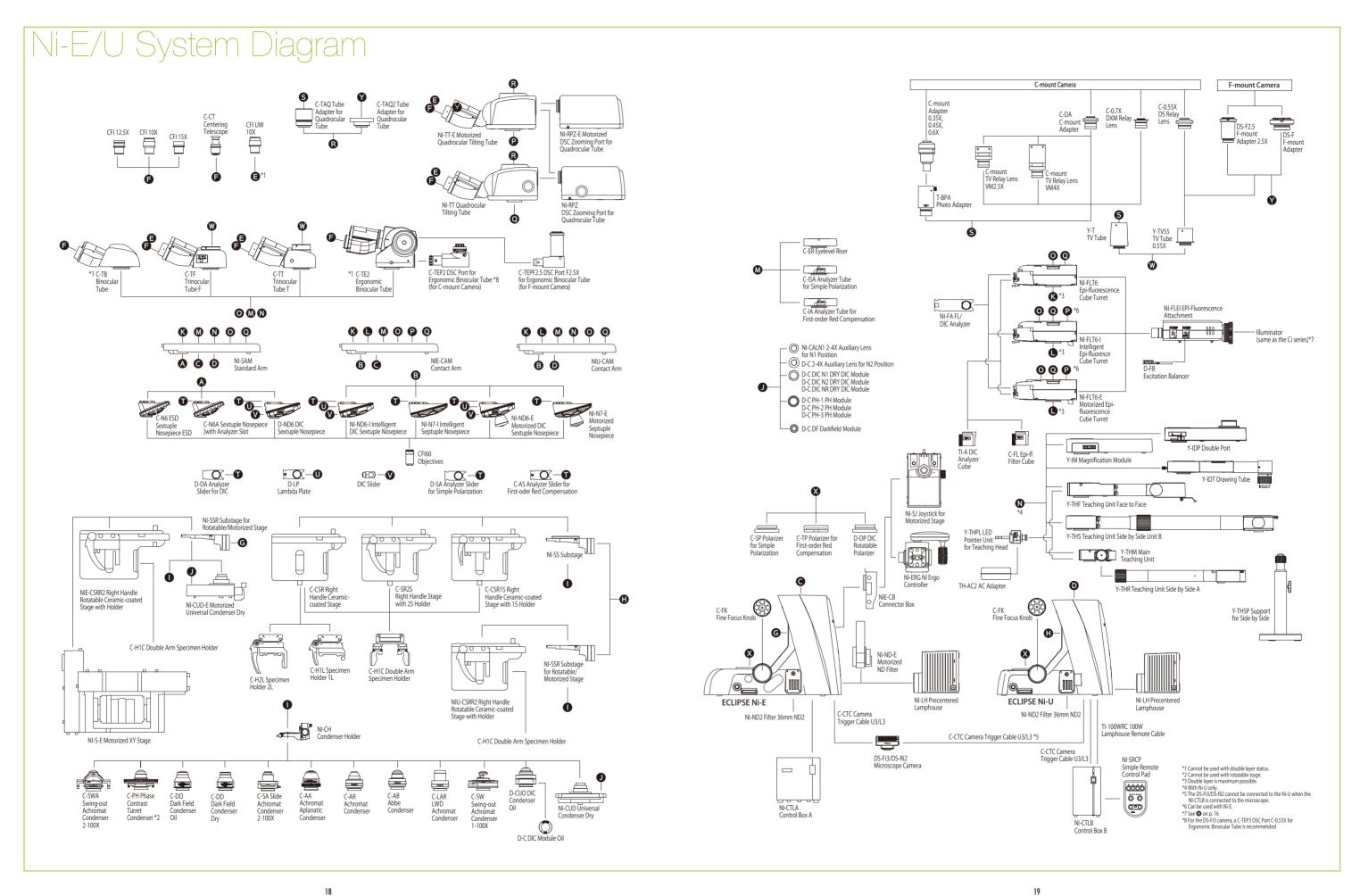


Specifications

		Ci-E	Ci-L	Ci-S	
	Optical system	CFI60 Infinity Optical System			
Main body	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-TB 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-H1C Double Arm Specimen Holder is available as an option for the below three 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-LEDFI Epi-FI LED Illuminator - 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)	



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