



Together with new optics, **ECLIPSE** is evolving to the next stage.

Modularized to meet industrial microscope applications in diverse fields of industry, including semiconductor devices, packaging, FPDs, electronic components, materials, and precision molds.

The ECLIPSE LV Series continues to evolve while offering various stand and illumination units selectable according to the observation method and purpose.

Four types - motorized and manual types plus dedicated reflected illumination and combined reflected/ transmitted illumination types - are available to meet any application.

Illuminators

Expanded lineup

Added a compact LED illuminator to the existing lineup. With the use of LED, Nikon illuminators are power saving and achieve long life.



Evolved optical performance

Nikon's CFI60 optical system, highly evaluated for its unique concept of high NA combined with long working distance has further evolved to achieve the apex in long working distance, chromatic aberration correction, and light weight.

Easy Operation

Combination with digital camera

Detection of microscope information, including objective lens information, and motorized unit microscope operation are now possible using imaging software, for more efficient observation and image capture.

Observation Methods

Diverse observation / optical contrast methods

Combinations of a full range of accessories expand the observation methods available when using transmitted illumination, allowing adaptability to a greater diversity of samples. All models enable brightfield, darkfield, differential interference, fluorescence, polarizing, and two-beam interferometry observation, while the LV100ND LED and LV100NDA LED also allow transmission-type

differential interference, darkfield, polarizing, and phase contrast observation.



Epi-fluorescence







LV-N Series

Model features

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Evolved optical performance

Nikon's CFI60 optical systems are highly evaluated for their unique concept of high NA combined with a long working distance. These lenses have been developed further and evolved achieving the apex in long working distance specifications, correct chromatic aberration, and an optimized lens weight.

T Plan & TU Plan Fluor & TU Plan Apo Lenses

Standard objective lenses TU Plan Fluor Series EPI/BD 5x/10x/20x/50x/100x

Enable brightfield, darkfield, simple polarizing, sensitive polarizing, differential interference, and

epi-fluorescence observations with just one lens. Achieves superior chromatic aberration performance with long working distance for all magnifications to adapt to any application.



*Brightfield observation (EPI) objective lens

Long WD

Model	Magnification	NA	Working Distance (mm)
TU Plan Fluor EPI	5×	0.15	23.5
(brightfield type)	10×	0.30	17.5
	20×	0.45	4.5
	50×	0.80	1.0
	100×	0.90	1.0
TU Plan Fluor BD	* 5×	0.15	18.0
(brightfield/darkfield type)	* 10×	0.30	15.0
	* 20×	0.45	4.5
	50×	0.80	1.0
	100×	0.90	1.0

* Uses fly-eye lens.

Dark Field Illumination

Fly-eye lens

Through the use of fly-eye lenses, the CFI60-2 optical system offers bright darkfield illumination throughout the field of view with little unevenness, even for lowmagnification lenses.



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angle of light so light strikes the focal surface without u

Low-magnification objective lenses T Plan EPI EPI 1x/2.5x Both clear observation using a conventional

analyzer/polarizer and operability-oriented observation without the need of an analyzer/ polarizer are possible.



Apochromatic objective lenses **TU Plan Apo Series** EPI/BD 50x/100x/150x

By using phase Fresnel lenses, these objective lenses achieve significantly longer operating distances while maintaining the superior chromatic aberration performance of apochromatic lenses



Standard Plan objective lenses

*Brightfield observation (FPI) objective lens

Model	Magnification	NA	Working Distance (mm)
TU Plan Apo EPI	50×	0.8	2.0
(brightfield type)	100×	0.9	2.0
	150×	0.9	1.5
TU Plan Apo BD	50×	0.8	2.0
(brightfield/darkfield type)	100×	0.9	2.0
	150×	0.9	1.5

Darkfield illumination system ······

As NA and WD improve, objective lenses increase in outside diameter. However, as the width of incident light is fixed, light intensity decreases with conventional illumination systems. The illumination system uses annular lenses or annular prisms to increase captured light and achieve bright darkfield illumination with no deterioration.



Annular lenses/prisms take in more light to increase brightness

TU Plan ELWD & T Plan SLWD Lenses

Long working distance objective lenses TU Plan ELWD Series EPI/BD 20x/50x/100x

With the phase Fresnel lenses, these objective lenses enable long working distances while offering higher level chromatic aberration correction than conventional objective lenses. This improves operability for samples with different heights.



*Brightfield observation (EPI) objective lens

Model	Magnification	NA	Working Distance (mm)
TU Plan EPI ELWD	20×	0.4	19.0
(brightfield type)	50×	0.6	11.0
	100×	0.8	4.5
TU Plan BD ELWD	20×	0.4	19.0
(brightfield/darkfield type)	50×	0.6	11.0
	100×	0.8	4.5

Phase Fresnel

Color aberration correction ..

Conventional lenses rely upon the refraction of light to form an image. As the strength of refraction varies according to color (wavelength), the image is formed starting with the light closest to the lens, in the order of blue, green, and red. In contrast, a phase Fresnel lens uses the diffraction of light to form an image starting with the light closest to the lens, this time, red, green, and blue, yielding a property opposite that of refraction. Combining these two lenses cancels out the color aberration of each and enables an image with little color aberration.



Other lenses

Objective lenses with glass thickness correction features

CFI L Plan EPI CR 20x/50x/100x

unaffected by the glass substrate.



enable high contrast observation of cells

or patterns, these observation lenses are



Model	Magnification	NA	Working Distance (mm)
CFI L Plan EPI CR	20× CR	0.45	10.90 - 10.00
(brightfield type)	50× CR	0.70	3.90 - 3.00
	100× CRA	0.85	1.20 - 0.85
	100× CRB	0.85	1.30 - 0.95

Long working distance / Super-long working distance objective lenses

Super-long working distance objective lenses

T Plan EPI SLWD EPI 10x/20x/50x/100x

Improving on chromatic aberration while prioritizing working distance, the T Plan SLWD Series achieve the best-in-class super-long working distance. The SLWD 10x (WD: 37 mm) lens enables use with a greater diversity of samples.



Model	Magnification	NA	Working Distance (mm)
T Plan EPI SLWD	10×	0.2	37.0
(brightfield type)	20×	0.3	30.0
	50×	0.4	22.0
	100×	0.6	10.0

Color aberration correction and longer working distance through phase Fresnel lenses



Realization of Long Working Distance

Correction of color aberration, even with short distances between lenses, is possible with the use of phase Fresnel lenses. This enables longer working distance than that of conventional lenses



Objective lenses for brightfield observation

CFI LE Plan EPI EPI 5x/10x/20x/50x/100x





LE Plan EP

Model	Magnification	NA	Working Distance (mm)
LE Plan EPI	5×	0.1	31.0
(brightfield type)	10×	0.25	13.0
	20×	0.4	3.6
	50×	0.75	0.5
	100×	0.9	0.31

Easy Operation

Combination with digital camera

LV150N / LV150NA / LV100ND LED

Information about the objective lens being used can be detected when combining the Intelligent Nosepiece LV-NU5I and the Nosepiece Adaptor LV-INAD. The information is automatically converted to appropriate calibration data when changing the magnification.

In addition, the LV150NA allows switching of objective lenses via the imaging software.



LV150N / LV150NA / LV100ND LED

LV100NDA LED

Microscope information detection and control

Objective lens information detection and control

The LV100NDA LED allows detection of information and control of objective lenses, light intensity, aperture stop, and observation method (brightfield / darkfield / fluorescence) via the imaging software, enabling optimization of the conditions vital for image acquisition.



Compatibility Chart of Information Detection and Control by Model							
 ⊙: Information detection and control possible ○: Information detection only 	LV150N/LV100ND LED (When using LV-NU5I and LV-INAD)	LV150NA	LV100NDA LED (When using LV-UEPI2A Illuminator)				
	Digital Sight 10/DS-Fi3 (+NIS-Elements)	Digital Sight 10/DS-Fi3 (+NIS-Elements)	Digital Sight 10/DS-Fi3 (+NIS-Elements)				
Objective lens	0	\odot	\odot				
Reflected illumination *When using (ON/OFF, light intensity adjustment) C-LL-I	—	—	0				
Transmitted illumination (ON/OFF, light intensity adjustment)	—	—	0				
Aperture stop	—	—	0				
Observation method selector (brightfield / darkfield / fluorescence)	_	_	0				

Note: With NIS-Elements L and F, functions above are not available. Use NIS-Elements D/Br/Ar.

Camera System

Digital camera system for microscopes "Digital Sight System"

Microscope Camera

Digital Sight 1000

Equipped with a 2 megapixel CMOS image sensor, it can capture full HD microscope images. By connecting a microscope to this camera and HDMI monitor, movies and images can be captured and saved onto a preinserted SD card in the camera.



DS-Fi3



Imaging software NIS-Elements





Simply installing NIS-Elements L on a



tablet PC enables setting and control of Digital Sight 1000/DS-Fi3/Digital Sight 10

microscope cameras, live image display, and image acquisition.

Wide variety of tools

NIS-Elements L enables the conducting of simple measurements on images, with input of lines and comments. These can also be written onto and saved with the image, and measurement data can be output



Scene Mode

Ten camera setting patterns for optimal color reproduction and contrast for each microscope light source, observation method and type of sample, as well as custom settings, can be selected.

• Wafer/IC	Metal, Ceramic/Plastic	
Circuit board	Flat Panel Display	

* See the "Digital Camera Digital Sight Series for Microscopes" brochure for details on Digital Sight features.

Three main features of the previous models, high-resolution, high sensitivity and low noise,

Digital Sight 10

This high-resolution camera captures both color and monochromatic images at up to 6,000 x 3,984 pixels. This enables the wide range of images to be captured and then many of them to be stitched together making a single and large combined image.

Image Stitching

Stitches together images acquired from multiple fields of view to create one image.



EDF (Extended Depth of Focus)

Create a single, all-in-focus image from images of differing focus



Observation Methods

Compatible with a wide range of observation / optical contrast methods: In reflected light mode -brightfield, darkfield, polarizing, differential interference, epi-fluorescence, and two-beam interferometry, and in Transmitted light mode- brightfield, darkfield, polarizing, differential interference, and phase contrast.



Semiconductors (IC wafers)

From its objective lenses to its illumination systems, the LV-N Series offers thorough measures against flare and provides bright, high-contrast images.



LV150N LV150N LV100ND LED LV100NDA LED

Substrate (solder)

LCD (color filter)

observation is possible.

The LV-N Series is effective in the observation

of samples with transparency, such as optical

components, FPDs, and slide glass samples. When

used in conjunction with the C-SP Simple Polarizer and analyzers, transmitted simple polarized

The LV-N Series demonstrates superiority in the observation of samples with fluorescent properties, such as organic ELs or mounted substrates.



Semiconductors (IC wafers) The use of Nikon's unique concepts in the objective lens darkfield illumination system enables bright darkfield observation and provides high-sensitivity detection of level differences and defects in samples.



LV150N

Minerals

The LV-N Series is effective in the observation of samples with birefringent properties, such as liquid crystals or plastics/glass containing distortion.



Substrate

Standard-type and high-contrast-type DIC sliders are available to match samples. The LV-N Series is effective for applications such as observation of minute level differences in devices and precision molds.



LV150NA LV100ND LED LV100NDA LED LV150N

Mica

Michelson (TI) and Mirau (DI) reflection-type twobeam interferometry is possible with the LV-N Series. When used with micrometer eyepieces, minute level differences can be detected and measured without contact with the sample.



Emulsion

Colorless, transparent samples can be made visible through bright/dark contrast and the use of diffraction and interference, two properties of light.



Nanoparticle (silver)

Colorless, transparent samples can be observed in three dimensions by using polarization to create interference between two beams of light.

Specifications

	LV150N	LV150NA
Base unit	Maximum sample height: 38 mm (when used with LVNU5A U5A nosepiece	and IV-S32 3x2 stage / IV-S64 6x4 stage)
	*73 mm when used with one column riser 12V50W internal power source for dimmer, coarse and fine adjustment kno Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mech Stage mounting hole intervals: 70 x 94 (fixed by 4-M4 screw)	bbs
Managina		
Nosepieces	C-N6 ESD Sextuple Nosepiece ESD LV-NU5 Universal Quintuple Nosepiece ESD LV-NBD5 BD Quintuple Nosepiece ESD LV-NU5I Intelligent Universal Quintuple Nosepiece ESD	LV-NU5A Motorized Universal Quintuple Nosepiece ESD LV-NU5AC Motorized Universal Quintuple Nosepiece ESD
Episcopic Illuminator	LV-UEPI-N LV-LH50PC 12V50W Precentered Lamphouse, LV-LL LED Lamphouse Bright/darkfield switch and linked aperture stop (centerable), field diaphra Accepts ø 25 mm filter (NCB11, ND16, ND4), polarizer/analyzer, λ plate, ex LV-UEPI2 LV-LH50PC 12V50W Precentered Lamphouse, LV-LL LED Lamphouse Fluorescence LED Light Source D-LEDI (with light adjustment (PC controll Bright/darkfield switch and linked aperture stop (centerable), field diaphra automated optical element switching feature matched to brightfield, darkfi Accepts ø 25 mm filter (NCB11, ND16, ND4), polarizer/analyzer, λ plate, ex	citation light balancer; equipped with noise terminator able)) gm (centerable), eld, and epi-fluorescence switch
Eyepiece tubes	LV-TI3 trinocular eyepiece tube ESD (Erected image, FOV: 22/25) LV-TT2 TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25) C-TB binocular tube (Inverted image, FOV: 22) P-TB Binocular Tube (Inverted image, FOV: 22) P-TT2 Trinocular Tube (Inverted image, FOV: 22)	
Stages	LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) ESD compatible LV-S64 6x4 stage (Stroke: 150 x 100 mm with glass plate) ESD compatible LV-S6 6x6 stage (Stroke: 150 x 150 mm) ESD compatible	
Eyepieces	CFI eyepiece series	
Objective lenses	Industrial Microscope CFI60-2/CFI60 optical system Objective lens series: (Combinations in accordance with the observation method
ESD performance	1,000 to 10V, within 0.2 sec. (excluding certain accessories)	
Power consumption	1.2 A / 75 W	
Weight	Approx. 8.6 kg	Approx. 8.7 kg
	LV100ND LED	LV100NDA LED
Base unit	LV100ND LED Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation)	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment/ knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro
Base unit Nosepieces	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm strol Coarse adjustment: 14 mm/tum (with torque adjustment, refocusing mechani
	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD, LV-NU5I Intelligent Universal Quintuple Nosepiece ESD	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm strol Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechani Fine adjustment: 0.1 mm/turn (1 μm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece
Nosepieces Episcopic	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NBD5 BD Quintuple Nosepiece ESD, LV-NU5I Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEP12 High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life * ¹ Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator
Nosepieces Episcopic Illuminators Diascopic Illuminator	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-ND6 Sextuple DIC Nosepiece EV-UEPI-N High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEPI2 High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected strops LV-TI3 trinocular eyepiece tube ESD (Erected image, FOV: 22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT2 Trinocular Tube (Inverted image, FOV:	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), rerted image, FOV: 22)
Nosepieces Episcopic Illuminators Diascopic	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, 40 mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD LV-NB5 BD Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEP12 High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-1 (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected s	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechani Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator
Nosepieces Episcopic Iluminators Diascopic Iluminator Eyepiece tubes Stages	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEPI2 High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected stop (22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22/), P-TT2 Trinocular topole (UV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT2 Trinocular Tube (Inverted image, FOV: 22), P-TT2 P-SR Side (Stroke: 75 x 50 mm with glass plate), LV-SRP P revol NIU-CSRR2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C- LWD achromat condenser (brightfield), LV-CUD U condenser dry (phase of (brightfield), DF dry condenser (darkfield), and others	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, afoncs in mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), ererted image, FOV: 22) e glass holder ving stage CSR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-S
Nosepieces Episcopic Iluminators Diascopic Iluminator Eyepiece tubes Stages Condensers Eyepieces	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEP12 High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected so LV-T13 trinocular eyepiece tube ESD (Erected image, FOV: 22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT2 Trinocular Tube (Inv LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) / LV-S32SGH slide LV-SRP Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C- LWD achromat condenser (brightfield), LV-CUD U condenser dry (phase of (brightfield), DF dry condenser (darkfield), and others CFI eyepiece series	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12/50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), erted image, FOV: 22) e glass holder ving stage CSR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-S
Nosepieces Episcopic Illuminators Diascopic Illuminator Eyepiece tubes Stages Condensers Eyepieces Dbjective lenses	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NB55 BD Quintuple Nosepiece ESD, LV-NU51 Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEP12 High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected so Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected so LV-S13 trinocular eyepiece tube ESD (Erected image, FOV: 22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT2 Trinocular Tube (Inv LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) / LV-S32SGH slide LV-S64 6x4 stage (Stroke: 75 x 50 mm with glass plate), LV-SRP P revol NIU-CSRP2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C- LWD	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/tum (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable))*option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), erted image, FOV: 22) e glass holder ving stage CSR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-S
Nosepieces Episcopic Illuminators Diascopic Illuminator Eyepiece tubes Stages Condensers Eyepieces Dbjective lenses ESD performance	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD LV-NU5 Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEPI2 High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected s LV-T13 trinocular eyepiece tube ESD (Erected image, FOV: 22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT z Finocular Tube (Inverted image, FOV: 22), P-TT2 Finocular Tube (Inverted image, FOV: 22), P-TT2 P-S12 Side (Stroke: 75 x 50 mm with glass plate), LV-S32 Stage (Stroke: 75 x 50 mm with glass plate), LV-S32 Filded Stage (DV-S64 6x4 stage (Stroke: 75 x 50 mm with glass plate), LV-S3PP revol NIU-CSRP2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C- LWD achromat condenser (brightfield), LV-CUD U condenser dry (phase of (brightfield), DF dry condenser (darkfield), and others CFI eyepiec	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/tum (with torque adjustment, refocusing mechan Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable))*option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts <i>ø</i> 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitati light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), erted image, FOV: 22) e glass holder ving stage CSR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-S contrast, diascopic DIC, darkfield), Achromat 2x-100x slide condenser Combinations in accordance with the observation method
Nosepieces Episcopic Illuminators Diascopic Illuminator Eyepiece tubes	Maximum sample height: 38 mm (when used with LV-NU5 U5 nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) C-N6 ESD Sextuple Nosepiece ESD, LV-NU5 Universal Quintuple Nosepiece ESD LV-NB55 BD Quintuple Nosepiece ESD, LV-NU51 Intelligent Universal Quintuple Nosepiece ESD D-ND6 Sextuple DIC Nosepiece LV-UEPI-N High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer; equipped with noise terminator LV-UEP12 High color-rendering LED Lamphouse C-LL-1: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable)) *option Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), automated optical element switching feature matched to brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected so Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator Built-in high color-rendering LED Lamphouse C-LL-I (50,000 hours of life) Internal aperture, field diaphragm, filter (45C-LCB); transmitted/reflected so LV-S13 trinocular eyepiece tube ESD (Erected image, FOV: 22/25), LV-TT2 P-TB Binocular Tube (Inverted image, FOV: 22), P-TT2 Trinocular Tube (Inv LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) / LV-S32SGH slide LV-S64 6x4 stage (Stroke: 75 x 50 mm with glass plate), LV-SRP P revol NIU-CSRP2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C- LWD	Maximum sample height: 33 mm (when used with LVNU5AI U5AI nosepiece and LV-S32 3x2 stage / LV-S64 6x4 stage) 12V50W internal power source for dimmer, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40 mm stro Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechar Fine adjustment: 0.1 mm/turn (1 µm/graduation) LV-NU5AI Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece) LV-UEPI2A High color-rendering LED Lamphouse C-LL-I: 50,000 hours of life *1 Fluorescence LED light source D-LEDI (with light adjustment (PC controllable))*option Motorized operation and control of illumination selector turret Motorized aperture stop linked to bright/darkfield selector (automatic optimization matched to objective lens), field diaphragm (centerable) Accepts ø 25 mm filter (LV-C-LCB), polarizer/analyzer, \ plate, excitat light balancer; equipped with noise terminator (Fly Eye optical system) *1 selector switch TT2 tilting trinocular eyepiece tube (Erected image, FOV: 22/25), erted image, FOV: 22) e glass holder ving stage CSR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-S

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Lens Specifications

	Туре	Model	Magnification	Product Code No.	NA	Working Distance (mm)
		T Plan EPI	1×	MUE12010	0.03	3.8
		Plan (Achromat)	2.5×	MUE12030	0.075	6.5
		TU Plan Fluor EPI	5×	MUE12050	0.15	23.5
		Universal Plan Fluor (Semi-apochromat)	10×	MUE12100	0.3	17.5
	Brightfield		20×	MUE12200	0.45	4.5
	Digitied		50×	MUE12500	0.8	1.0
			100×	MUE12900	0.9	1.0
		TU Plan Apo EPI	50×	MUC11500	0.8	2.0
		Universal Plan Apo (Apochromat) 🙈	100×	MUC11900	0.9	2.0
			150×	MUC11150	0.9	1.5
		TU Plan Fluor EPI P	5×	MUE13050	0.15	23.5
		Polarizing Universal Plan Fluor	10×	MUE13100	0.3	17.5
	Polarizing	(Semi-apochromat)	20×	MUE13200	0.45	4.5
			50×	MUE13500	0.8	1.0
			100×	MUE13900	0.9	1.0
	Brightfield	TU Plan EPI ELWD	20×	MUE21200	0.4	19.0
CF60-2	Long Working	Long Working Distance Universal Plan	50×	MUE21500	0.6	11.0
	Distance	(Semi-apochromat)	100×	MUE21900	0.8	4.5
		T Plan EPI SLWD	10×	MUE31100	0.2	37.0
	Brightfield Super-long Working Distance	Super-long Working Distance Plan	20×	MUE31200	0.3	30.0
		(Semi-apochromat)	50×	MUE31500	0.4	22.0
			100×	MUE31900	0.6	10.0
		TU Plan Fluor BD	5×	MUE42050	0.15	18.0
		Universal Plan Fluor (Semi-apochromat)	10×	MUE42100	0.3	15.0
			20×	MUE42200	0.45	4.5
	Brightfield/Darkfield		50×	MUE42500	0.8	1.0
	-		100×	MUE42900	0.9	1.0
		TU Plan Apo BD	50×	MUC41500	0.8	2.0
		Universal Plan Apo (Apochromat)	100×	MUC41900	0.9	2.0
			150×	MUC41150	0.9	1.5
	Brightfield/Darkfield	TU Plan BD ELWD	20×	MUE61200	0.4	19.0
	Long Working	Long Working Distance Universal Plan	50×	MUE61500	0.6	11.0
	Distance	(Semi-apochromat)	100×	MUE61900	0.8	4.5

• Circular polarizing plate and depolarizer are built into T Plan EPI 1x/2.5x. (Circular polarizing plate can be attached/detached.)

	Туре	Model	Magnification	Product Code No.	NA	Working Distance (mm)
CFI60	Brightfield With Correction Mechanism	L Plan EPI CR For Inspecting LCDs Plan	20×	MUE35200	0.45	10.9 - 10.0
			50×	MUE35500	0.7	3.9 - 3.0
			100×	MUE35900	0.85	1.2 - 0.85
			100×	MUE35910	0.85	1.3 - 0.95
	Brightfield	L Plan EPI Plan (Achromat)	40×	MUE00400	0.65	1.0
	Brightfield	LE Plan EPI (Achromat)	5×	MUD00050	0.1	31.0
			10×	MUD00100	0.25	13.0
			20×	MUD00200	0.4	3.6
			50×	MUD00500	0.75	0.5
			100×	MUD00900	0.9	0.31

Dimensions



LV100ND LED



LV100NDA LED

 $^{*}\mbox{Using}$ fluorescence LED light source (D-LEDI) and D-LEDI Adapter for fluorescence observation









System Diagram

for LV150N/LV150NA/LV100ND LED/LV100NDA LED



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



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