

ECUPSE LV-N



Industrial Microscopes

LV150N/LV150NL/LV150NA LV100ND/LV100DA-U



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

The ECLIPSE microscope body has been 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, with stand units and illumination units selectable according to observation method and purpose to meet a variety of observation methods, has gained a new optical system and new features in its continued evolution.

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



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 the digital control unit, for more efficient observation and image capture.

Observation Methods

Diverse observation 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 and LV100DA-U also allow transmission-type differential interference, darkfield, polarizing, and phase contrast observation.



LV-N Series

Model features

Compatible observation methods

Compatible

microscopic

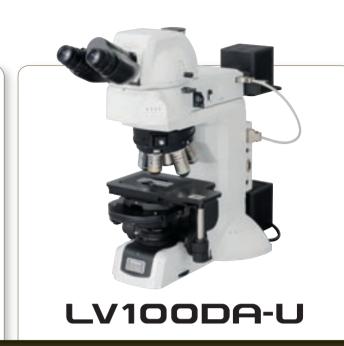
digital camera

stages









Dedicated reflected illumination models

Microscope type	Manual type		Motorized type (Nosepiece)
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		Brightfield	Darkfield	DIC	Fluorescence	Polarizing	Phase- contrast	Two-beam Interferometry
LV150/ LV150NA	- Episcopic	0	0	0	0	0		0
LV150NL	Episcopic	0	_	0	_	0	_	0

* Use an objective lens appropriate to the observation method.

- LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) *Can be fitted with LV-S32SPL ESD plate
- LV-S6 6x6 stage (Stroke: 150 x 150 mm) *Can be fitted with LV-S6WH wafer holder / LV-S6PL ESD plate
- LV-SRP P revolving stage
- P-GS2 G stage 2 (Used with stage adapter LV-SAD)

DS-L3 (Stand alone control unit)

- Objective lens information detection (when used with combination of Intelligent Nosepiece LV-NU5I and LV-INAD)
- Objective lens information detection and control



Integration with Digital Sight **DS-U3** + NIS-Elements (PC control-based control unit + imaging software)

- Objective lens information detection (when used with combination of Intelligent Nosepiece LV-NU5I and LV-INAD)
- Objective lens information detection and control



Combined reflected/transmitted illumination models

Manual type	Motorized type
Maridai type	(Nosepiece / light intensity / aperture stop / observation method select

		Brightfield	Darkfield	DIC	Fluorescence	Polarizing	Phase- contrast	Two-beam Interferometry
LV100ND/	Episcopic	0	0	0	0	0		0
LV100DA-U	Diascopic	0	0	0	_	0	0	_

- * Use an objective lens appropriate to the observation method.
 - LV-S32 3x2 stage (Stroke: 75 x 50 mm with glass plate) *Can be fitted with LV-S32SGH slide glass holder
 - LV-S64 6x4 stage (Stroke: 150 x 100 mm with glass plate)
 - LV-SRP P revolving stage
 - P-GS2 G stage 2 (Used with stage adapter LV-SAD)
 - NIU-CSRR2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm)
 - C-SR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-SAD)

DS-L3 (Stand alone control unit)

- Objective lens information detection (when used with combination of Intelligent Nosepiece LV-NU5I and LV-INAD)
- Information detection of objective lens, light intensity, aperture stop, and observation method (brightfield / darkfield / fluorescence)



DS-U3 + NIS-Elements (PC control-based control unit + imaging software)

- Objective lens information detection (when used with combination of Intelligent Nosepiece LV-NU5I and LV-INAD)
- Information detection and control of objective lens, light intensity, aperture stop, and observation method (brightfield / darkfield / fluorescence)



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.

T Plan & TU Plan Fluor & TU Plan Apo Lenses

Standard Plan objective lenses

Standard objective lenses

TU Plan Fluor Series

EPI/BD 5x/10x/20x/50x/100x

These universal type standard objective lenses enable brightfield, darkfield, simple polarizing, sensitive polarizing, differential interference, and epi-fluorescence observation in one lens. New semi-apochromatic lenses combine superior chromatic aberration performance with long working distance at all magnifications to adapt to any application.











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 lenses

Low-magnification objective lenses

T Plan EPI



These low-magnification objective lenses enable clear observation using a conventional analyzer/polarizer, as well as operability-oriented observation without need for an analyzer/polarizer.



Model	Magnification	NA	Working Distance (mm)
T Plan EPI	1×	0.03	3.8
(brightfield type)	2.5×	0.075	6.5

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. A 50x lens is new to the line-up.



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50H-1		15000
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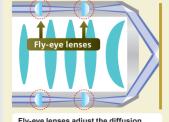
* Denicted is the brightfield observation (EPI) objective lens.

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

Dark Field Illumination

Fly-eye lens

As low-magnification lenses normally have a wide actual field of view, it is difficult to achieve bright illumination without unevenness. Through the use of fly-eye lenses, the CFI60-2 optical system offers bright darkfield illumination throughout the field of view, with little unevenness.



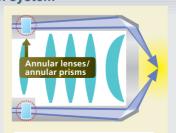
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Fly-eye lenses adjust the diffusion angle of light so light strikes the focal

New darkfield illumination system

As NA and W.D. improve, objective lenses increase in outside diameter. However, as the width of incident light is fixed, light intensity decreases with conventional illumination systems

The new 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

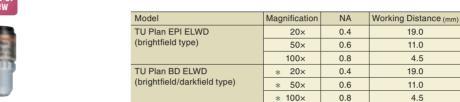
TU Plan ELWD & T Plan SLWD Lenses

Long working distance objective lenses

TU Plan ELWD Series

EPI/BD 20x/50x/100x

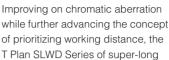
Through the use of phase Fresnel lenses these objective lenses enable long working distances while offering higherlevel chromatic aberration correction than conventional objective lenses. This further improves operability for samples with differences in level.

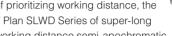


^{*} Uses new darkfield illumination system.

Super-long working distance objective lenses

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





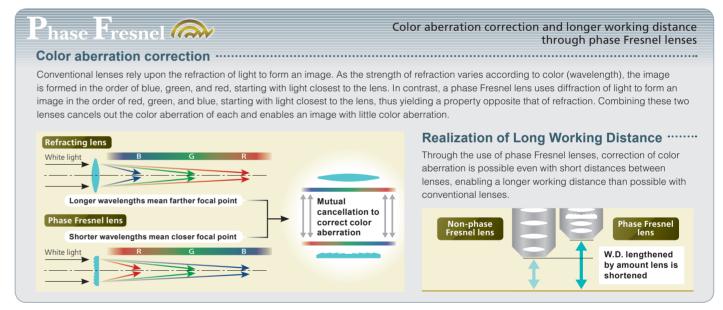
working distance semi-apochromatic

objective lenses achieves best-in-class super-long working distance. The new addition of a SLWD 10x (WD: 37mm) lens to the lineup enables use with a greater diversity of samples.

Long working distance / Super-long working distance objective lenses

* Scheduled for sale from January 2013.

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



* Denicted is the brightfield observation

(EPI) objective lens.

Other objective lenses

Objective lenses with glass thickness correction features

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

These objective lenses are equipped with corrective features that enable highcontrast observation of cells or patterns. unaffected by the glass substrate.



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

Objective lenses for interferometry / Objective lenses for two-beam interferometry

CF IC EPI Plan TI/DI $\square 10x/20x/50x/100x \square 2.5x/5x$

These Michelson (TI) and Mirau (DI) two-beam interferometry lenses allow inspection and measurement of fine level differences without contact with the sample.



Model	Magnification	NA	Working Distance (mm)
CF IC EPI Plan TI	2.5×A	0.075	10.30
(for interferometry)	5×A	0.130	9.30
CF IC EPI Plan DI	10×A	0.30	7.40
(for two-beam interferometry)	20×A	0.40	4.70
	50×A	0.55	3.40
	100×	0.70	2.00

Easy Operation

Combination with digital camera

LV150N/LV100ND/LV150NA

Objective lens information detection and control

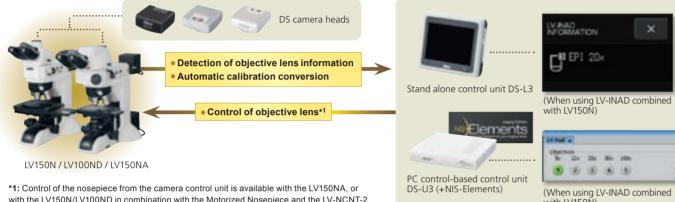
Through the combination of the Intelligent Nosepiece LV-NU5I and the newly-developed magnification-detecting nosepiece adaptor LV-INAD, the LV150N/LV100ND microscopes allow information about the objective lens currently used to be detected via the camera control unit. The information is automatically converted to appropriate calibration data when changing magnification.

In addition to the detection of objective lens information, the LV150NA allows detection of objective lens information and switching of objective lenses via the camera control unit.



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LV-NU5I LV-INAD Nosepiece Adaptor

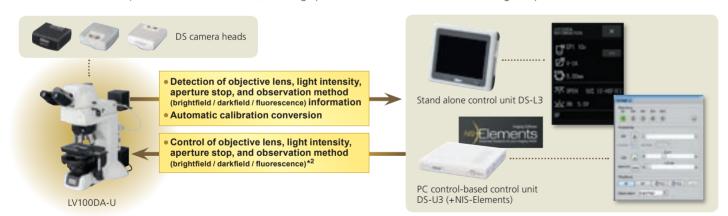


LV100DA-U

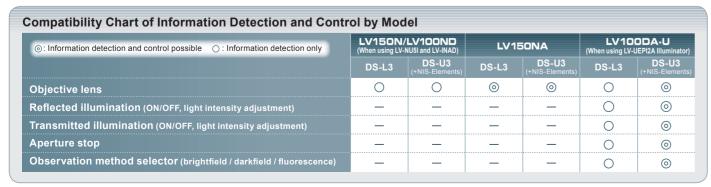
Motorized Nosepiece Controller.

Microscope information detection and control

The LV100DA-U allows detection of information and control*2 of objective lenses, light intensity, aperture stop, and observation method (brightfield / darkfield / fluorescence) via the camera control unit, enabling optimization of the conditions vital for image acquisition.



*2: Information detection only, when the control unit DS-L3 is connected. Control of the objective lens, light intensity, aperture stop, and observation method (brightfield / darkfield / fluorescence) is possible when the control unit DS-U3 (+NIS-Elements) is connected.



^{*} NIS-Elements F (free package) is not compatible with information detection and control. Please use NIS-Elements D/Br/Ar.

Control Units

Digital camera system for microscopy "Digital Sight System"

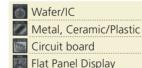


High-definition touch panel monitor

Built-in 8.4" 1024×768 monitor. Easy to see and easy to use, the large touch-panel monitor allows simple setting and operation of the camera head with a touch of a finger or stylus.

Scene mode

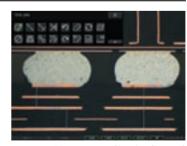
Optimal imaging parameters for each sample type and observation method can easily be set through the icons.





A wide variety of tools

The DS-L3 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.



Measurement (2 point distance)

Measurement function





















From display and shooting of live images to advanced image processing and analysis, the DS-U3 allows the control of all functions

from a PC and is flexibly adaptable

to a wide range of applications.



Adaptable to a wide range of applications

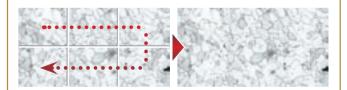
Using NIS-Elements imaging software, you can perform image acquisition, processing, and analysis.

NIS-Elements Comprehensive imaging software series

NIS-Elements series as control software. NIS-Elements allows functions from basic imaging to control of the microscope and peripheral devices to be performed, as well as the measurement, analysis, and management of acquired images.

Large image

Stitches together images from multiple fields of view during shooting to create an image with wide field of view. Images already acquired can also be stitched together.



Manual measurement and image annotation

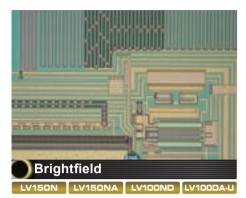
Manual Measurement allows easy measurement of length and area by drawing lines or an object directly on the image. The results can be attached to the image, and also exported as text or to an Excel spreadsheet.



^{*} See the "Digital Camera Digital Sight Series for Microscopes" catalog for details on Digital Sight features.

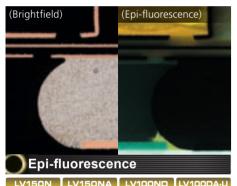
Observation Methods

Compatible with a wide range of observation methods: brightfield, darkfield, polarizing, differential interference, epi-fluorescence, and two-beam interferometry.



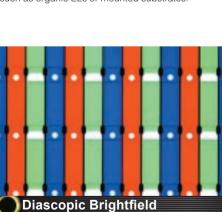
Semiconductors (IC wafers)

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



Substrate (solder)

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



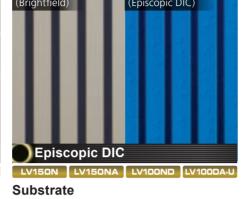
LCD (color filter)

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 observation is possible.

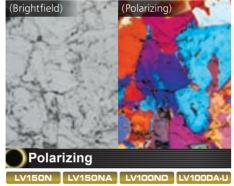


Semiconductors (IC wafers)

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.



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.



Minerals

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



Mica

Michelson (TI) and Mirau (DI) reflection-type two-beam 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	LV150NL		
Base unit	Maximum sample height: 38 mm (when used v and LV-S32 3x2 stage / LV-S64 6x4 stage) * 73 mm when used with one column riser 12V50W internal power source for dimmer, coa Left: coarse and fine adjustment / Right: fine ac Coarse adjustment: 14 mm/turn (with torque ac mechanism) Fine adjustment: 0.1 mm/turn (1 Stage mounting hole intervals: 70 x 94 (fixed b	arse and fine adjustment knobs djustment, 40 mm stroke djustment, refocusing µm/graduation)	Maximum sample height: 38 mm (when used with LV-S32 3x2 stage) * 73 mm when used with one column riser Internal LED illumination power source, coarse and fine adjustment knobs Left: coarse and fine adjustment / Right: fine adjustment, 40mm stroke Coarse adjustment: 14 mm/turn (with torque adjustment, refocusing mechanism) Fine adjustment: 0.1 mm/turn (1 µm/graduation) Stage mounting hole intervals: 70 x 94 (fixed by 4-M4 screw)		
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	C-N6 ESD Sextuple Nosepiece ESD LV-NU5 Universal Quintuple Nosepiece ESD		
Episcopic Illuminator	LV-UEPI-N LV-LH50PC 12V50W Precentered Lamphouse Bright/darkfield switch and linked aperture stof field diaphragm (centerable) Accepts ø 25 mm filler (NCB11, ND16, ND4), p excitation light balancer; equipped with noise t LV-UEPI2 LV-LH50PC 12V50W Precentered Lamphouse HG precentered fiber illuminator: C-HGFIE (wit Bright/darkfield switch and linked aperture stof (centerable), automated optical element switch brightfield, darkfield, and epi-fluorescence switch Accepts ø 25 mm filter (NCB11, ND16, ND4), p excitation light balancer; equipped with noise te	p (centerable), iolarizer/analyzer, λ plate, erminator th light adjustment) *option p (centerable), field diaphragm ning feature matched to tch iolarizer/analyzer, λ plate,	1.1W white LED Accepts polarizer/analyzer		
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)		LV-TI3 trinocular eyepiece tube ESD (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 gla LV-S64 6x4 stage (Stroke: 150 x 100 mm with g LV-S6 6x6 stage (Stroke: 150 x 150 mm) ESD	glass plate) ESD compatible	LV-S32 3x2 stage (Stroke: 75 x 50 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 sys	stem Objective lens series: Combi	nations 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		0.1A / 3W		
Weight	Approx. 8.6 kg	Approx. 8.7 kg	Approx. 8.6 kg		

	LV100ND	LV100DA-U				
Base unit	Maximum sample height: 38 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 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)				
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 D-ND6 Sextuple DIC Nosepiece	LV-NU5Al Motorized Universal Quintuple Nosepiece (High-durability motorized 5-hole universal nosepiece)				
Episcopic Illuminators	LV-UEPI-N LV-LH50PC 12V50W Precentered Lamphouse Bright/darkfield switch and linked aperture stop (centerable), field diaphragm (centerable), accepts ø 25 mm filter (NCB11, ND16, ND4), polarizer/analyzer; equipped with noise terminator LV-UEPI2 LV-LH50PC 12V50W Precentered Lamphouse HG precentered fiber illuminator: C-HGFIE (with light adjustment) *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 (NCB11, ND16, ND4), polarizer/analyzer, \(\) plate, excitation light balancer; equipped with noise terminator	LV-UEPI2A LV-LH50PC 12V50W Precentered Lamphouse HG precentered fiber illuminator: C-HGFIE (with light adjustment: PC controlled) *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 (NCB11, ND16, ND4), polarizer/analyzer, λ plate, excitation light balancer; equipped with noise terminator				
Diascopic Illuminator	LV-LH50PC 12V50W Precentered Lamphouse (Fly Eye optical system) Internal aperture, field diaphragm, filter (ND8, NCB11); transmitted/reflecte	d selector switch; 12V100W also available (option)				
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), 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) / LV-S32SGH slide glass holder LV-S64 6x4 stage (Stroke: 150 x 100 mm with glass plate), LV-SRP P revolving stage / P-GS2 revolving stage: Used with stage adapter LV-SAD NIU-CSRR2 Ni-U right handle rotatable ceramic stage (Stroke: 78 x 54 mm), C-SR2S right handle stage (Stroke: 78 x 54 mm: Used with stage adapter LV-SAD)					
Condensers	LWD achromat condenser (brightfield), LV-CUD U condenser dry (phase contrast, diascopic DIC, darkfield), Achromat 2x-100x slide condenser (brightfield), DF dry condenser (darkfield), and others					
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	1.2 A / 90 W				
Weight	Approx. 9.5 kg	Approx. 10 kg				

Lens Specifications

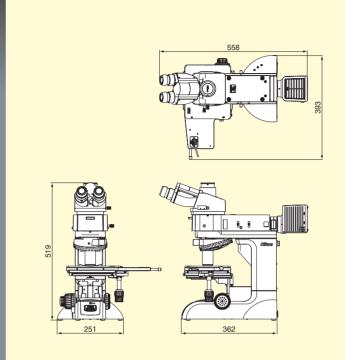
	Туре	Model	Magnification	Product Code No.	NA	Working Distance (mm)
	Туре	T Plan EPI	1×	MUE12010	0.03	3.8
	Brightfield	Plan (Semi-apochromat)	2.5×	MUE12030	0.075	6.5
		, , ,	5×	MUE12050	0.073	23.5
		TU Plan Fluor EPI Universal Plan Fluor (Semi-apochromat)	10×	MUE12100	0.13	17.5
			20×	MUE12200	0.45	4.5
			50×	MUE12500	0.8	1.0
			100×	MUE12900	0.9	1.0
		TU Plan Apo EPI Universal Plan Apo (Apochromat) * Scheduled for sale from January 2013.	50×	MUC11500	0.8	2.0
			100×	MUC11900	0.9	2.0
			150×	MUC11150	0.9	1.5
	Polarizing	TU Plan Fluor EPI P Polarizing Universal Plan Fluor (Semi-apochromat)	5×	MUE13050	0.15	23.5
			10×	MUE13100	0.3	17.5
			20×	MUE13200	0.45	4.5
			50×	MUE13500	0.8	1.0
			100×	MUE13900	0.9	1.0
	D: 1.6.11	TU Plan EPI ELWD Long Working Distance Universal Plan (Semi-apochromat)	20×	MUE21200	0.4	19.0
CFI60-2	Brightfield Long Working		50×	MUE21500	0.6	11.0
	Distance		100×	MUE21900	0.8	4.5
	Brightfield Super-long Working Distance	T Plan EPI SLWD Super-long Working Distance Plan (Semi-apochromat) * Scheduled for sale from January 2013.	10×	MUE31100	0.2	37.0
			20×	MUE31200	0.3	30.0
			50×	MUE31500	0.4	22.0
			100×	MUE31900	0.6	10.0
	Brightfield/Darkfield	TU Plan Fluor BD Universal Plan Fluor (Semi-apochromat)	5×	MUE42050	0.15	18.0
			10×	MUE42100	0.3	15.0
			20×	MUE42200	0.45	4.5
			50×	MUE42500	0.8	1.0
			100×	MUE42900	0.9	1.0
		TU Plan Apo BD Universal Plan Apo (Apochromat) * Scheduled for sale from January 2013.	50×	MUC41500	0.8	2.0
			100×	MUC41900	0.9	2.0
			150×	MUC41150	0.9	1.5
	Brightfield/Darkfield Long Working	TU Plan BD ELWD Long Working Distance Universal Plan	20×	MUE61200	0.4	19.0
			50×	MUE61500	0.6	11.0
	Distance	(Semi-apochromat)	100×	MUE61900	0.8	4.5

^{• 🏔 :} Phase Fresnel lens (diffraction optical element) type • A circular polarizing plate and depolarizer are built into T Plan EPI 1×/2.5×. (Circular polarizing plate can be attached/detached.)

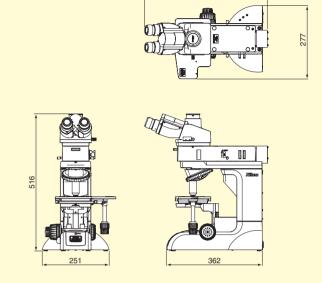
	Туре	Model	Magnification	Product Code No.	NA	Working Distance (mi
CFI60	Brightfield With Correction Mechanism	L Plan EPI CR For Inspecting LCDs Plan	20×	MUE35200	0.45	10.9 - 10.0
			50×	MUE35500	0.7	3.9 - 3.0
			100×	MUE35900	0.85	1.2 - 0.85
			100×	MUE35910	0.85	1.3 - 0.95
	Brightfield	L Plan EPI Plan (Achromat)	40×	MUE00400	0.65	1.0
	Brightfield Super-long Working Distance	LU Plan EPI SLWD Super-long Working Distance Plan (Achromat)	20×	MUE30201	0.35	24.0
			50×	MUE30501	0.45	17.0
			100×	MUE30901	0.7	6.5
	Deletational	LU Plan Apo EPI Universal Plan Apo (Apochromat)	100×	MUC00090	0.95	0.4
	Brightfield		150×	MUC10151	0.95	0.3
	Brightfield/Darkfield	LU Plan Apo BD Universal Plan Apo (Apochromat)	100×	MUC40900	0.9	0.51
			150×	MUC50151	0.9	0.42
	Interferometry	CF IC EPI Plan TI For Interferometry Plan	2.5×	MUL42031	0.075	10.3
			5×	MUL42051	0.13	9.3
		CF IC EPI Plan DI For Two-beam Interferometry Plan	10×	MUL40101	0.3	7.4
CF&IC			20×	MUL40201	0.4	4.7
			50×	MUL40501	0.55	3.4
			100×	MUL40900	0.7	2.0
	Brightfield	CF IC EPI Plan Apo Plan Apochromat	50×	MUT10051	0.95	0.4
			100×	MUT10101	0.95	0.3
			150×	MUT10153	0.95	0.2

Dimensions

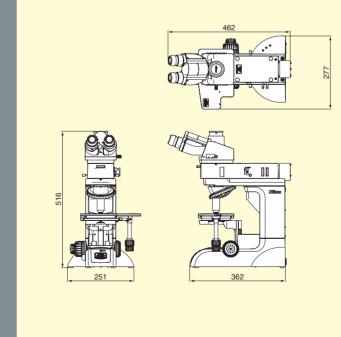
LV150N/LV150NA



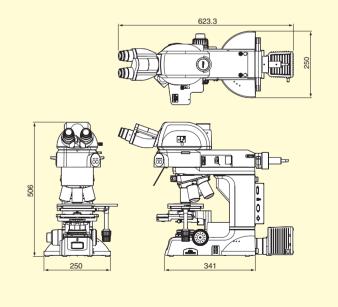
LV150NL

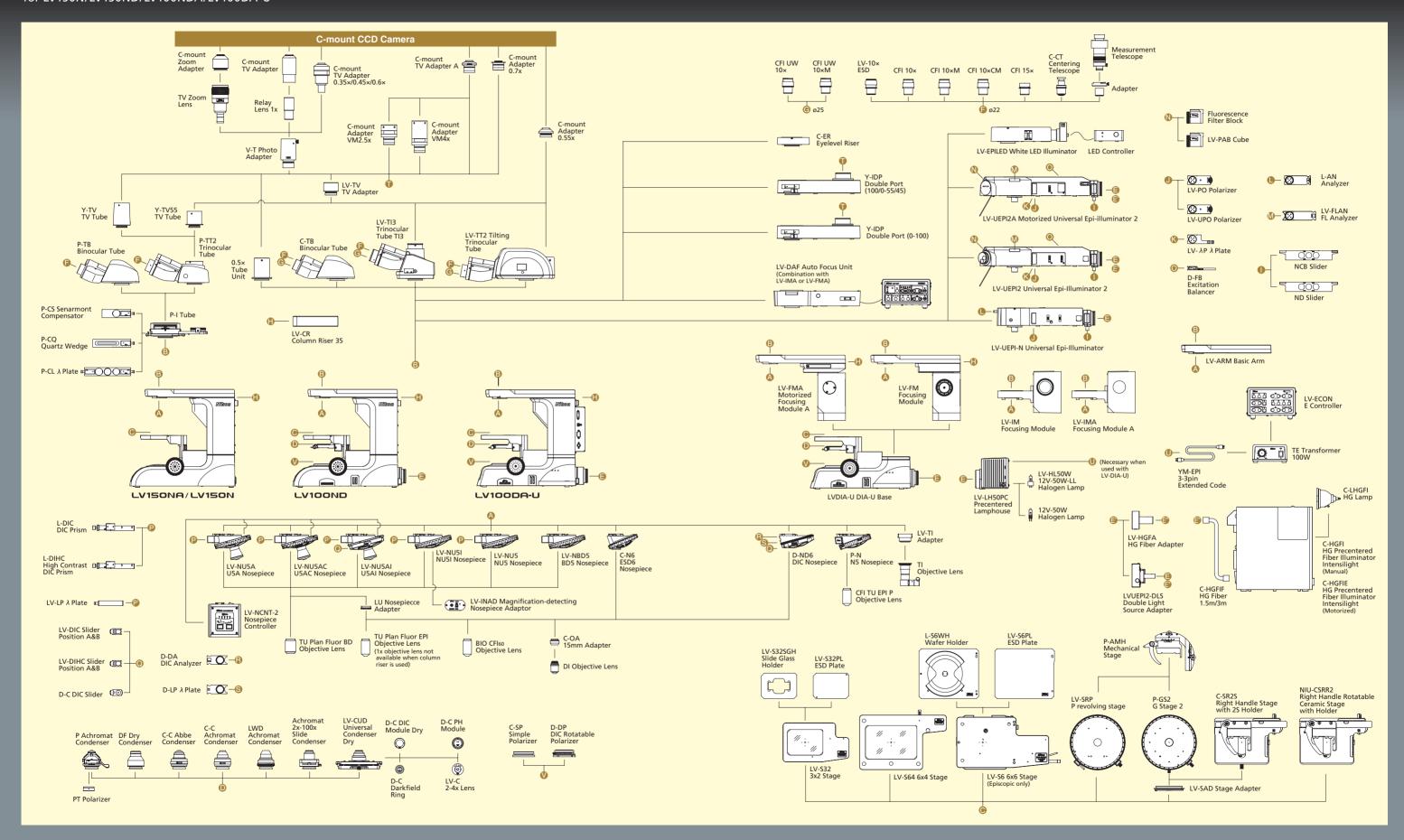


LV100ND



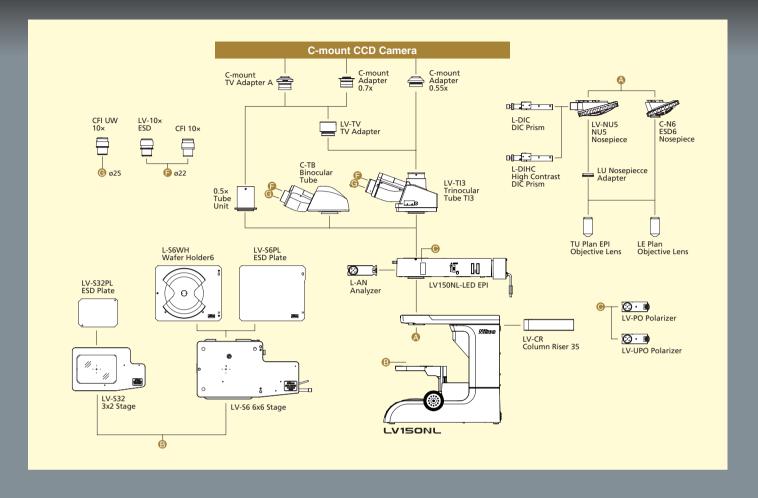
LV100DA-U





System Diagram

for LV150NL



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. December 2012 ©2012 NIKON CORPORATION

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*Products: Hardware and its technical information (including software)



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



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