



Industrial Microscopes

ECLIPSE

LV150

LV150A

LV100D

CFI60

LV150/LV150A

(Episcopic Illumination Type)

LV-TI3 Trinocular Tube

A trinocular tube with an optical path changeover of 100:0/0:100.

LV-LH50PC Precentered Lamphouse

A low power-consumption 12V-50W halogen light source equivalent to or higher than the 12V-100W type.

CFI-Series Eyepiece

LV-UEPI

An illuminator that can be used for brightfield, darkfield, simple polarizing and DIC observations.

LV-NU5A Nosepiece

A universal motorized nosepiece that is 10 times more durable than its predecessors.

LV-S6 6x6 Stage

An episcopic illumination stage capable of inspecting 150mm wafers. (With 6" wafer holder)

LV150/LV150A

The LV150 and LV150A microscopes are used for episcopic illumination.

CFI LU Plan Fluor Series

These objective lenses feature high NA, long working distances and improved transmission rate in the UV range.

L150A controls

Motorized nosepiece controls



Main specifications

LV150/150A

Main body	Baseless type (spacer insertable between arm and stand); Max. sample height 47mm (when configured with 3x2 stage/6x4 stage), 82mm with column riser, 116.5mm with Suruga Seiki B23-60CR; 12V-50W brightness control built-in transformer
Focusing mechanism	Coaxial coarse/fine focus knob, left: coarse/fine, right: fine; Stroke 40mm, coarse 14.0mm/rotation (torque adjustable, with refocusing mechanism), fine focusing 0.1mm/rotation (1mm/increments)
Nosepiece	C-N6 Nosepiece (brightfield, sextuple), L-NBD5 Nosepiece (bright/darkfield quintuple, with flare prevention), L-NU5 Nosepiece (universal quintuple, with flare prevention), LV-NU5A Nosepiece (for LV150A, high-durability motorized universal quintuple, with flare prevention)
Episcopic illuminator LV-U EPI	12V-50W high-intensity halogen lamp; Field (centerable) and aperture diaphragms synchronized with B/D changeover; ø25mm filter (NCB11, ND16, ND4) insertable; Polarizer/analyzer insertable
Episcopic illuminator LV-U EPI2	12V-50W high-intensity halogen lamp; 120W high-intensity mercury-fiber illuminator (with brightness control, no centering necessary) mountable; Centerable field and aperture diaphragms synchronized with B/D changeover; f25mm filter (NCB11, ND16, ND4) insertable; Polarizer/analyzer/I plate insertable, excitation balancer insertable
Eyepiece tube	LV-TI3 Trinocular (erect image, F.O.V. 22/25), LV-TT2 Tilting Trinocular (erect image, F.O.V. 22/25), Y-TF Trinocular (inverted image, F.O.V. 22/25), Y-TB Binocular (inverted image, F.O.V. 22), C-TE Tilting Binocular (inverted image, F.O.V. 22)
Stage	LV-S32 3x2 Stage (stroke: 75x50 mm including glass plate), ESD-applied (excluding glass plate) LV-S64 6x4 Stage (stroke: 150x100 mm including glass plate), ESD-applied (excluding glass plate) LV-S6 6x6 Stage (stroke: 150x150 mm; only for episcopic illumination)
Eyepiece	CFI eyepiece series
Objective lens	CFI60 series
Electrostatic decay time	1000-10V, within 0.2 sec.
Power consumption	1.2A/75W
Weight	Approx. 8.6kg

LV100D

Main body	Baseless type (spacer insertable between arm and stand); Max. sample height 29mm, 64mm with column riser; 12V-50W brightness control built-in transformer
Focusing mechanism	Coaxial coarse/fine focus knob, left: coarse/fine, right: fine; Stroke 30mm, coarse 14.0mm/rotation (torque adjustable, with refocusing mechanism), fine focusing 0.1mm/rotation (1mm/increments)
Nosepiece	C-N6 Nosepiece (brightfield, sextuple), L-NBD5 Nosepiece (bright/darkfield quintuple, with flare prevention), L-NU5 Nosepiece (universal quintuple, with flare prevention)
Episcopic illuminator LV-U EPI	12V-50W high-intensity halogen lamp; Field (centerable) and aperture diaphragms synchronized with B/D changeover; f25mm filter (NCB11, ND16, ND4) insertable; Polarizer/analyzer insertable
Episcopic illuminator LV-U EPI2	12V-50W high-intensity halogen lamp; 120W high-intensity mercury-fiber illuminator (with brightness control, no centering necessary) mountable; Centerable field and aperture diaphragms synchronized with B/D changeover; f25mm filter (NCB11, ND16, ND4) insertable; Polarizer/analyzer/I plate insertable, excitation balancer insertable
Diascopic illuminator	12V-50W high-intensity halogen lamp; Field (centerable) and aperture diaphragms synchronized with B/D changeover; Filters (ND8, NCB11) insertable
Eyepiece tube	LV-TI3 Trinocular (erect image, F.O.V. 22/25), LV-TT2 Tilting Trinocular (erect image, F.O.V. 22/25), Y-TF Trinocular (inverted image, F.O.V. 22/25), Y-TB Binocular (inverted image, F.O.V. 22), C-TE Tilting Binocular (inverted image, F.O.V. 22)
Stage	LV-S32 3x2 Stage (stroke: 75x50 mm including glass plate) LV-S64 6x4 Stage (stroke: 150x100 mm including glass plate)
Eyepiece	CFI eyepiece series
Objective lens	CFI60 series
Electrostatic decay time	1000-10V, within 0.2 sec.
Power consumption	1.2A/75W
Weight	Approx. 9.4kg