Eclipse ME600L

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During episcopic/diascopic illumination, CFI60 infinity optics ensure superb vision. They also provide greater flexibility for system expansion.

The ME600L is an episcopic/diascopic illumination-type industrial microscope that uses Nikon's acclaimed CFI60 infinity optics. These new optics provide the advantages of both CF and infinity optics, producing not only images with excellent sharpness but ensuring greater flexibility for adding various accessories when the need arises. So, this microscope can be used for various purposes, including observations of mineral samples, PCBs, LCDs, or film.

CFI60 infinity optics

Designed to correct chromatic aberrations over the entire field of view, CFI60 objectives produce images that are extremely sharp, of high contrast, and have a minimum of flare. Furthermore, their 60mm parfocal distance and larger objective diameter provide both longer working distances and higher numerical apertures. Longer working distances are particularly useful when inspecting thick samples.

12V-100W epi-illuminator

The ME600L can use the same 12V-100W epi-illuminator as that of the L150 series, ensuring bright images regardless of the observation technique you use.

Diascopic illumination is possible

The microscope stand incorporates a built-in light source for diascopic illumination and an episcopic/diascopic changeover switch. The new oversize 6" x 4" stage* makes observations of PCBs, LCDs, and film much easier. *Under development

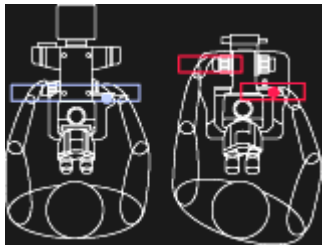
Robust, yet flexible design

Created through CAE, the microscope body can withstand the load of a full complement of accessories without causing any deterioration in image sharpness due to vibrations. The CFI60 infinity optical design allows one intermediate module--a double port or teaching head--to be used with the epi-illuminator without any compromise in optical performance.

Strain-free, ergonomic design

The focus knob and the stage handle are equidistant from the operator so that your hands rest comfortably on the desk in a more relaxed, natural posture. Moreover, the fine focus knob and the stage handle can be controlled with one hand. A refocusing mechanism is also provided.

One-handed operation



ME600L Conventional model

With the ergonomic eyepiece tube, both the tilt angle and eyepiece length are adjustable.

Key Features Include

CFI60 Infinity Optics -- With a 60mm parfocal distance and larger objective diameter, Nikons CFI60 optics provide both longer working distances and higher numerical apertures. The results of this remarkable technology are extremely sharp, high contrast images with a minimum of flare

Flexible Epi-Illuminator for Reflected Light -- The Universal Epi-Illuminator with 12V/100W halogen lamp ensures bright images whatever observation technique you use -- brightfield, darkfield, Nomarski DIC or qualitative polarizing observations. For applications requiring additional illumination, mercury, xenon and metal halide light source options are also available.

Diascopic (Transmitted) Illumination -- For transparent and translucent materials, the microscope stand incorporates a built-in light source for diascopic illumination and an episcopic/diascopic changeover switch.

Robust, Flexible Design -- Using CAE (Computer Aided Engineering), the microscope body has been made to withstand the weight of a full complement of accessories without any deterioration in image sharpness due to vibration.

Ergonomic Design -- The focus knob and the stage handle are equidistant from the operator so that your rest comfortably on the desk in a more relaxed, natural posture. Also, the fine focus knob and the stage handle can be controlled with one hand.

Technical Specifications

Optical System: CFI60 (infinity optical system) Parfocal distance : 60mm

Eyepiece tube (F.O.B./observation port:photo port): Y-TB Binocular Tube B, F.O.V. 22mm; Y-TE Ergonomic Binocular Tube, F.O.V. 22mm, tilting angle 8 degrees - 32 degrees and telescopic mechanism movement + 15mm; Y-TF Trinocular Tube FUW, F.O.V. 22/25mm, 100:0, 0:100, Reticle rotation compensation provided; Y-TT Trinocular Tube TUW, F.O.V. 22/25mm, 100:0, 20:80, 0:100, Reticle rotation compensation provided; L-T12 Trinocular Eyepiece Tube ESD (erect image), F.O.V. 22/25mm, 100:0, 0:100; Y-IER Eyelevel Riser (thickness 25mm), for adjustment of eyelevel (up to 50mm)

Eyepiece : L-W10x ESD (F.O.V. 22mm); 10x (F.O.V. 22mm); 10xM photo mask (F.O.V. 22mm); 10x CM Crossline (F.O.V. 22mm); 12.5x (F.O.V. 16mm); 15x (F.O.V. 14.5mm); UW 10x (F.O.V. 25mm); UW 10XM photo mask (F.O.V. 25mm)

Episcopic Illumination: Universal Epi-Illuminator ESD with 12V/100W halogen lamp (Light source built-in); (For BF/DF/DIC (option), qualitative polarizing observations); Centerable Field Diaphragm, Aperture Diaphragm, (Both are synchronized with B/D changeover); Four 25mm filters (NCB11/ND4/ND16/GIF) can be mounted; Optional High Intensity Illuminators available (100W Mercury, 75W Xenon, 150W Metal Halide)

Diascopic Illumination: 12V100W halogen lamp; NCB11, ND8, ND32 and Diffuser (detachable by tool) incorporated

Nosepiece: C-N Sextuple Nosepiece; L-NBD5 BD Quintuple Nosepiece ESD; L-NU5 Universal Quintuple Nosepiese ESD

Objectives: CFI LU/L Plan series

Focusing mechanism; Coarse Focusing; K25 Fine Focusing: : Stroke - 25mm; 12.7mm per rotation (torque adjustable, refocusing mechanism provided); 0.1mm per rotation (in 1um increments);

Guide: 2-guide

Stage: Y-SR2 3 x 2 Rectangular mechanical Stage R2, Cross travel 78 x 54mm, metal holder optional; 4 x 4 Stage with Glass Plate, Cross travel 100 x 100mm, glass stage, diascopic observation possible; 6 x 4 Stage, with glass plate; Circular Graduated Stage G, Stage diameter: 190mm, rotation 360 degrees, vernier reading

Intermediate Tube Accessories : Double Port, Epi-Fluorescence Attachment, Teaching Head

Dimensions (mm) & Weight: 280 (W) x 581(D) x 487(H) (eye-level) 20 kg (with L-%12, 4 x 4 stage, BD)

Power supply: AC 100-240V 2.4A 50/60Hz ±10%

For more information, call Capra at **(508) 650-9700**.

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