



Microscopes “3000-A LED, 3000-B LED and 3000-C LED”



EXCELLENT RESOLUTION PLANACHROMATIC OPTICS. HIGH SPECIFICATION OPTICAL MICROSCOPES. MAXIMUM VERSATILITY WITH A WIDE RANGE OF CONFIGURATIONS, MODELS SHOWN ARE BINOCULAR AND TRINOCULAR WITH PHASE CONTRAST, BRIGHT AND DARK FIELD OPTICS, THIS INSTRUMENT IS IDEAL FOR A WIDE RANGE OF APPLICATIONS.

Optics Anti mould / Anti fungal

APPLICATIONS

Biology, bacteriology, cytology, immunology, diagnostics, pathology, agriculture, industry and university laboratories.

3000-A LED (BINOCULAR) AND 3000-B LED (TRINOCULAR).

FEATURES

Head, binocular or trinocular (model dependant), inclined 30° with 360° rotation.

Interpupillary distance adjustable from 53 to 75 mm.

Dioptric adjustment of ± 5 dp in the left eyepiece, to compensate any visual differences.

Pair of DIN eyepieces wide field of view **WF 10x** (20 mm $\emptyset$).

DIN objectives, planachromatic bright field of 4x (A.N. 0.10), 10x (A.N. 0.25), 40x (A.N. 0.65) retractable and 100x (A.N. 1.25) oil immersion retractable, colour coded for rapid identification.

The planachromatic objectives provide an excellent image to the edge of the optical field of view.

Quadruple revolving objectives turret, rotates in both directions with spring ball stop locator when it is in the correct position.

Large substage of 180x140 mm, rack and pinion adjustable height. Coaxial focus using controls located on both sides, graduated **micrometer** in steps of 0.002 mm and **macrometer** (with adjustable tension of up to 30 mm).

Safety stop with present adjustment.

Adjustable slide holder with a graduated scale of 0.1 mm, made up of a smooth (X-Y) rack and pinion mechanism, **longitudinal** and **transversal** movement of 50 mm and 75 mm respectively.

Abbe condenser of 1.25 A.N. precentred, with double lens, iris diaphragm and retractable from the front. Adjustable height using a rack and pinion mechanism.

The Abbe condenser can be easily replaced for special applications with a phase contrast condenser or a darkfield condenser (see accessories).

Transmitted illumination with LED that is formed with a condenser lens, viewing diaphragm removable filters and a precentred, low voltage, adjustable intensity.

Robust stable structure that includes the illumination system in the base, adjustable intensity potentiometer and On/Off switch.

Dimensions: 410 Height x 200 Width x 310 mm Depth.

Microscope Binocular Part No. 3000-A LED. Part No. 5901981

Microscope Trinocular Part No. 3000-B LED. Part No. 5901982



Model “3000-B”. Part No. 5901982.

MODEL 3000-C LED PLAN PHASE CONTRAST - BINOCULAR.

FEATURES

Similar characteristics to the model 3000-A LED except for a special configuration of **Plan Phase Contrast objectives**:

The objectives, **DIN quality, are planachromatic with positive phase contrast** of 10x (A.N. 0.25), 25x (A.N. 0.40) 40x (A.N. 0.65) retractable and 100x (A.N. 1.25) retractable and oil immersion.

The condenser is a phase turret A.N. 1.25, with central telescope and a set of white, blue and green filters. With sharp detail for examination of transparent thin sections that can differentiate the refraction index that the human eye cannot differentiate. Excellent for applications in biology, medicine, crystallography, agriculture, industrial plastics and rubber etc.

Microscope Binocular model 3000-C LED. Part No. 5901983

MODELS	Part No.	Head	Eyepieces	Objectives	Technique	Illumination	Weight kg
3000-A LED	5901981	Binocular	WF 10x (20 $\emptyset$)	Planachromatic (PL) 4x - 10x - 40x - 100x	Brightfield	3 W LED	8.4
3000-B LED	5901982	Trinocular					8.7
3000-C LED	5901983	Binocular		Planachromatic (PL) phase contrast 4x - 25x - 40x - 100x	Phase contrast		8.4

Supplied complete with matt glass filter, fuse and a dust cover.

SPARE

LED lamp 3. Part No. 5313026

ACCESSORIES

See page: 278

COMECTA Trinocular fluorescence microscope "3002-F"



EXCELLENT RESOLUTION. POLYVALENT, CAN WORK IN EPIFLUORESCENT OR TRANSMITTED LIGHT MODE. WITH TRINOCULAR ADAPTER FOR CAMERA AND VIDEO CAMERA. PHASE CONTRAST AND DARK FIELD MODES AS ACCESSORIES.

OPTICS ANTI MOULD / ANTI FUNGAL

APPLICATIONS

Biology, cytology, oncology, genetics, scientific investigation, clinical diagnostics, epidemic prevention and embryology.

FEATURES

Trinocular head, inclined 30° and rotatable through 360°.

Interpupillary distance adjustable from 55 to 75 mm.

Dioptric adjustment of ± 5 dp in the left eyepiece, to compensate for any visual differences.

Pair of wide field DIN eyepieces WF 10x (22 Ø).

Bright field planachromatic DIN objectives of 4x (A.N. 0.10), 10x (A.N. 0.25), 40x (A.N. 0.65) retractable, and an oil immersion retractable 100x (A.N. 1.25) they are colour codified for a quick identification.

Planachromatic objectives provide an excellent image to the edge of the optical field of view.

Quadruple revolving objective turret, with both sides rotation and with a roller bearing and a notch stop.

Large sub stage of 180x150 mm, rack and pinion height adjustable, by coaxial focus bilateral controls, graduated micrometer in steps of 0,002 mm and macrometer with adjustable tension (30 mm path). With transmitted light lock plate and UV radiation protection screen.

Safety stop with preset adjustable safety level.

Mechanical slide holder (moveable), with graduated scale of 0,1 mm, made up of a smooth movement mechanism (x-y), by a 50mm longitudinal and a 75mm transversal rack and pinion movement.

Abbe condenser of 1.25 A.N., precentred, with double lens, iris diaphragm and retractable frontal lens. Rack and pinion height, adjustable.

Abbe condenser can be easily replaced by a phase turret condenser (for contrast) or dark field condenser, for special observation conditions (see accessories).

Transmitted illumination (diascopic), according to Köhler, that consists of a condenser lens, a field diaphragm, removable filters and low voltage halogen precentred lamp of 12V/30W with adjustable intensity.

Robust stable structure that includes the illumination system, the intensity potentiometer and the On/Off switch on its base.



FLUORESCENCE UNIT

Mercury lamp of 100 W/DC

Lamp power supply connected to 110 V/220 V with intensity, voltage and power adjustable by a knob.

Illumination module for reflected fluorescence (Waveband B and G, N free).

The unit includes diaphragm, selectable attenuation filter and 5 positions filter disk: ultra-violet, violet, blue and green filters, and a empty position for transmitted light.

ACCESSORIES

Waveband V and UV. Part No. 5901986

MODEL	Part no.	Eyepieces	Objectives	Technique	Illumination	Weight kg
3002-F	5901984	WF 10x (22 Ø)	Planachromatics (PL) 4x- 10x- 40x-100x	Epifluorescent	Transmitted 12v / 30w & Mercury fluorescence 100w / DC	10,5

Supplied complete with a set of blue, green and white filters, bottle of immersion oil η D 1.515, mercury lamp 100 w, spare fuse and dust cover.

SPARE PARTS

Halogen lamp 12 V / 30 W. Part No. 5313021.

Block with omega fluorescence filter:

U V. Part No. 5313060

Violet. Part No. 5313061

Mercury lamp 100 W DC. Part No. 5313055

Blue. Part No. 5313062

Green. Part No. 5313063

ACCESSORIES FOR MICROSCOPES MODELS "3000-A LED", "3000-B LED", "3000-C LED" AND "3002-F"

Eyepiece with wide angle lens WF-15x (single). Part No. 5313073.

Eyepiece with wide angle lens WF-20x (single). Part No. 5902074

Contrast phase kit: Objectives DIN, planachromatic positive phase contrast of 10x (A.N. 0.25), 25x (A.N. 0.4), 40x (A.N.0.65) retractable and 100x (A.N.1.25) retractable oil immersion and phase condenser turret, A.N. 1.25, with central telescope and green filter. Part No. 5901985

Dark Field condenser: Permits the observation of low contrast particles dispersed in a homogenous substrate, that appear luminous in a dark field.

- Dark field condenser: A.N. 0.77 ~ 0.91 dry (low magnification). Part No. 5313071

- Dark field condenser: A.N. 1.25 ~ 1.40 immersion (high magnification). Part No. 5313072

Micrograph Kit, camera mechanism WF 10x with a visor for focus correction and a photographic objective of 2.5 - 4x. (Adaptable for Digital reflex photographic kit). Part No. 5902008

Digital reflex photographic kit Composed of a mount, a shutter and a SD memory card of 2Gb. Part No. 5531322

Adapter for a CCD video camera: attachment. Part No. 5313070

Wooden case. Part No. 5313016

