

COMECTA Stereomicroscope "XTX-3C LED and ZTX-20 LED"



Model XTX-3C LED.



Model ZTX-20 LED.

APPLICATIONS

By design and quality optics, these microscopes are recommended especially for long duration work. Ideally suited for biology, botany, archaeology, geology, teaching and electronics.

COMMON FEATURES

Three dimensional optical resolution, wide field of view without side aberrations, excellent crisp contrast and true colour.

Rechargeable battery 3x1800Ah and external charger.

Binocular head inclined at 45° with adjustable interpupillary distance from 55 to 75 mm.

Rotating head of 360° with easy access for large items.

Dioptic correction in the left eyepiece of ± 5 dp.

Ocular head held with secure fixing screws.

Rubber eyecups.

Pair of eyepieces, wide field of view WF 10x (23 mm \emptyset). In the model ZTX-3C.

Pair of eyepieces, wide field of view WF 20x (20 mm \emptyset). In the model ZTX-20.

Objectives of 2 x and 4 x, located in a double objectives support turret with rotation in both directions.

Double focus: by means of a vertical slip clutch of the head up and down a column, with fine adjustment using a bilateral macrometer with rack and pinion tension and control.

Solid base consisting of a platform with double contrast (black and white) circular plate and translucent etched light diffuser, with fixing screw and holding clips.

Model XTX-3C LED: System with double illumination of low voltage 12 V/10 W, with incident light (episcopic) in the head and transmitted (diascopic) in the circular platform.

Model ZTX-20 LED: system with triple illumination of low voltage, with incident light (episcopic) in the head and transmitted (diascopic) in the circular platform, Activated individually or simultaneously, with controllable intensity. Also the incident light incorporates a condenser lens with an extractable blue filter.

Dimensions: XTX-3C LED: 270 high x 117 wide x 190 mm deep.

Dimensions: ZTX-20 LED: 350 high x 320 wide x 190 mm deep.

Stereomicroscope model XTX-3C LED.

Part No. **5313113**

Stereomicroscope model ZTX-20 LED.

Part No. **5313090**

ACCESSORIES

Eyepiece with wide field of view WF 5x (single).

Part No. **5313091**

Eyepiece with wide field of view WF 10x (single).

Part No. **5313092**

Eyepiece with wide field of view WF 15x (single).

Part No. **5313093**

Eyepiece with wide field of view WF 20x (single).

Part No. **5313094**

Wooden box with handle and lock.

Part No. **5313022**

Ocular with scale 10/100 mm (each unit).

Part No. **5313095**

SPARES

Set of LED lamps (for XTX-3C LED).

Part No. **5313013**

Set of LED lamps (for ZTX-20 LED).

Part No. **5313015**

MODELS	Part No.	Objectives	Eyepieces	Magnification	\emptyset Field of view mm	Working Distance mm	Illumination	Weight kg						
XTX-3C LED	5313113	2x	WF-10x	20x	10.0	57	Transmitted or incident	2.8						
		4x		40x	5.0				ZTX-20 LED	5313090	2x	WF-20x	40x	5
ZTX-20 LED	5313090	2x	WF-20x	40x	5	40	Transmitted or incident independent or simultaneous	3.6						
		4x		80x	2.5									

Comes complete with key for tightening the axis tension, spare lamp and plastic dust cover.

COMECTA Stereomicroscopes with Zoom "SQF-L LED, SQF-D LED and SQF-E LED" OPTIC SYSTEM



Model SQF-L LED.



Model SQF-D LED with Supplementary objective 2x.

APPLICATIONS

By design and quality optics, these microscopes are recommended especially for long duration work. Ideally suited for biology, botany, archaeology, geology, teaching and electronics.

COMMON FEATURES

Variable magnification using a continuous zoom control, with control knobs on either side to enable parfocal centralised focus.

Three dimensional optical resolution, wide field of view without side aberrations, excellent crisp contrast and true colour.

Optics are protected against knocks.

Binocular or Trinocular head (Model dependent), inclined at 45°.

Adjustable interpupillary distance from 54 to 75 mm.

Rotating head of 360° with easy access for large items.

Dioptric correction of ±5 dp in both eyepieces.

Ocular head fixed with secure screws.

Rubber eyecups.

Pair of eyepieces wide field of view WF20x (12 Ø) or WF10x (22 Ø) model dependent.

Macrometric focus: by means of a vertical slip clutch with a fine adjustment using rack and pinion tension control.

Solid base consisting of a platform with double contrast (black and white) circular plates and translucent etched light diffuser, with fixing screw and holding clips.

Triple illumination LED system, low voltage with incident light (episcopic) in the head and transmitted (diascopic) in the circular platform: activated individually or simultaneously, with controllable intensity.

Model SQF-E LED trinocular

Same characteristics to the SQF-D LED model, except that the head is trinocular and it is supplied with a photography adapter and eyepiece WF 10x with an adjustable focus visor. The photographic eyepiece and camera with support T2 PK and trigger cable have to be ordered as accessories.

ACCESSORIES

Supplementary objective 0.5x. SQF-L	Part No. 5313096
Supplementary objective 0.75x. SQF-L	Part No. 5313097
Supplementary objective 1.5x. SQF-L	Part No. 5313098
Supplementary objective 2x. SQF-L	Part No. 5313099
Eyepiece with wide field of view HWF 10x (single).SQF-D & E	Part No. 5313081
Eyepiece with wide field of view HWF 15x (single).SQF-D & E	Part No. 5313082
Eyepiece with wide field of view HWF 20x (single).SQF-D & E	Part No. 5313083
Video camera for eyepiece (See page 273)	Part No. 5435030
Adapter CCD of 0.5x suitable for a video camera.	Part No. 5313089
Eyepiece WF10x with grid (single). (Model SQF-D and E)	Part No. 5313084
Wooden case with handle and lock.	Part No. 5313016

SPARES

Set of LED lamps SQF-L	Part No. 5313015
LED lamp 3 W SQF-D LED and SQF-E LED (transmitted).	Part No. 5313044
LED lamp 3 W SQF-D LED and SQF-E LED (incident).	Part No. 5313045

Technical table with the different magnifications, working distance and Ø of the field of view resulting in the configuration of the diverse eyepieces and supplementary objectives available.

MODELS	Part No.	Head	Zoom Range	Eyepieces	Standard magnification	Ø Field of view mm	Working distance mm	Illumination system	Weight kg
SQF-L LED	5313311	Binocular	1x - 4x	10x	1x - 4x	26 - 5.8	90	Transmitted	5.5
SQF-D LED	5313309	Binocular	0.67x - 4.5x	20x	13.4x - 90x	17.9 - 2.7	105	or incident or both	6.1
SQF-E LED	5313308	Trinocular	0.67x - 4.5x	20x	13.4x - 90x	17.9 - 2.7	105	simultaneously	6.4

Comes with a dust cover.

COMECTA Microscope Monocular "M-100 FL LED"

APPLICATIONS

Directed at the requirements of higher education, universities and suitable for: veterinary, dentistry, biology, industry, etc.

FEATURES

Monocular head inclined angle 45° and rotatable through 360°.

Eyepiece, with wide field of view WF 10x (18 Ø) fixed in position using secure screw.

Objectives, parfocal DIN 45 mm **achromatic bright-field** of 4x (A.N. 0.10), 10x (A.N. 0.25) and 40x retractable (A.N. 0.65).

Total magnification: 40x, 100x and 400x.

Revolving triple objectives turret, rotation in either direction with a fixed axis stop locator.

Focus, vertical slip clutch, bilateral **micrometer** adjustment of 0.002 mm, separate **macrometer** with adjustable tension. Safety fixing screw for tension adjustment and end of focus limit stop.

Stage with spring clip slide holder of 110 x 126 mm.

Condenser, fixed lens and aperture (A.N. 0.65), with diaphragm disk of 5 apertures.

Illumination, transmitted light (diascopic), LED 0.5 W, with collimator lens and blue filter for chromatic corrections.

Robust construction, with power switch and illuminator built into the base.

Dimensions: 360 height x 130 width x 175 mm depth.

Weight 2.8 kg.

Supplied complete with key to adjust the tension of the slip clutch and cover.

Microscope monocular M-100 FL LED (400x).

Part No. **5313119**

ACCESSORIES

Eyepiece Widefield WF-15x with cross hairs (Pointer).

Part No. **5313076**

Eyepiece Widefield WF-20x with reticule.

Part No. **5313077**

Condenser ABBE 1.25 A.N. with filter and iris diaphragm.

Part No. **5313003**

Graduated mechanical stage.

Part No. **5435030**

Video Micro-camera, 3.1 MP:-

- **with connection USB** for direct connection to a PC, including software.

Part No. **5435034**

Wooden case with carry handle and lock.

Part No. **5313022**

SPARE

LED lamp 0.5 W.

Part No. **5313028**



ACCESSORY

Set of polarisers with circular graduated base and filter.

Part No. **5313075**

COMECTA Microscope Binocular "701 LED"

FEATURES

Binocular head with 45° tilt and full 360° rotation.

Interpupillary distance: 52 to 72 mm.

Dioptric adjustment of ±5 dp in both eyepieces, sharpness compensation for visual differences.

Pair of eyepieces DIN standard **WF10x** (18 mm Ø) and **WF16x** (11 mm Ø).

Objectives DIN standard, achromatic, brightfield of 4x (A.N. 0.10), 10x (A.N. 0.25), 40x (A.N. 0.65) retractable and 100x (A.N. 1.25) immersion oil and retractable. Colour coded objectives for easy identification.

Total magnification: 1600x.

Four position objectives turret rotating in both directions with stop locator when it is in the correct position.

Large sub stage 135x145 mm, variable height with a rack and pinion mechanism with bilateral coaxial control. **Micrometer** adjustable stage graduated to 0.002 mm and **macrometer** adjustment tension, Movement up to 30 mm.

Safety stop with pre-set adjustable safety level.

Adjustable slide holder, with 0.1 mm scale with a smooth X-Y 40 mm longitudinal and 80 mm transversal

movement.

Condenser Abbe of 1.25 A.N. with diaphragm iris and exchangeable filters. Rack and pinion height, adjustable.

Illumination transmitted (diascopic), with removable condenser lens and pre-centred lamp LED 3W, with variable intensity control. Suitable for use with an external light source using a plan or concave reflector mirror.

Robust construction that incorporates the illumination source and mains switch in the base.

Size: height 370 x width 200 x depth 225 mm.

Weight 6 Kg.

Supplied complete with blue set filters, matt glass filter, fuse, oil, dust cover.

Power supply: 110/220 V-50/60Hz.

Microscope Binocular 701 LED. Part No. **5313111**



ACCESSORIES

Eyepiece with wide angle lens WF-5x (single).

Part No. **5313034**

Eyepiece with wide angle lens WF-15x (single).

Part No. **5313004**

Eyepiece with wide angle WF-10x with reticule (single).

Part No. **5313035**

Eyepiece with wide angle WF-10x with pointer (single).

Part No. **5313007**

Video camera for eyepiece (see page. 273)

Part No. **5435030**

SPARE

LED lamp 3 W.

Part No. **5313027**

COMECTA Polarising Binocular Microscope 206 LED



APPLICATIONS

Wide range of applications, includes bright-field, dark-field, polarization and phase contrast. Ideal for universities, clinics, biology, bacteriology, agriculture and industry.

FEATURES

Binocular head inclined 30° rotatable through 360°.

Adjustable interpupillary distance of 55 to 75 mm.

Diopter adjustment of ± 5 dp. in the right eyepiece, compensation for any differences in sharpness.

Paired eyepieces DIN, wide field of view WF10x (18 \emptyset) and a pair of WF16x (\emptyset).

Objectives DIN, achromatic brightfield 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.

Total magnification: 1600x

Quadruple revolving objectives turret, rotates in both directions with notched location positions.

Large stage of 160 x 140 mm, height adjustable by mechanical rack and pinion bilateral coaxial focus; 0.002 mm graduated **micrometer** and **macrometer** with adjustable tension (distance 30 mm).

Pre-adjusted, Safety stop limit.

Mechanical stage, (slide holder), graduated scale of 0.1 mm, adjustable in both (x-y) using a smooth rack and pinion movement of 50 mm **longitudinal** and 70 mm transversal.

Condenser Abbe of 1.25 A.N. with iris diaphragm and replaceable filters.

Adjustable height by rack and pinion.

Illumination: transmitted (diascopic), with removable condenser lens and LED 3 W lighting with regulable intensity.

Strong and robust, illuminator incorporated into the base.

Set of simple polarisers: controllable analysis polariser.



Set of simple polarisers.

Comes complete with a set of blue, green and yellow filters, set of simple polarisers, lamp, 2 spare fuses, bottle of immersion oil and plastic cover

SPARE

3W LED lamp. Part No. **5313046**

ACCESSORIES

Eyepiece with wide angle lens WF-5x (single) Part No. **5313034**

Eyepiece with wide angle lens WF-15x (single) Part No. **5313004**

Eyepiece with wide angle lens WF-10x with reticule (single) Part No. **5313035**

Eyepiece with wide angle lens WF-10x with pointer (single) Part No. **5313007**

Complete kit for phase contrast, made of: Objectives DIN plan negative phase contrast: 10x (A.N. 0.25), 40x (A.N. 0.65) and 100x (A.N. 1.25) retractable oil immersion, condenser turret phase A.N. 1.25, central telescope and blue filter.

Part No. **5313017**

Darkfield condenser: Permits the observation of low contrast and small size, dispersed in a homogeneous substrate samples which they appear luminescent under a uniform darkfield.

Darkfield condenser A.N. 0.83 - 0.91 dry (operable under low magnification).

Part No. **5313018**

Darkfield condenser A.N. 1.25 - 1.36 oil immersion (operable under high magnification).

Part No. **5313019**

Video camera for eyepiece

Part No. **5435030**

MODEL	Part No.	Height / Width / Depth mm	Power supply	Weight Kg
206	5313115	425 245 335	220 V / 50 Hz	7.5



5313017



5313018



5313019



5435030

COMECTA 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 (TRIOCCULAR).

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 Triocular 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		Planachromatic (PL) 4x - 10x - 40x - 100x	Brightfield	3 W	8.4
3000-B LED	5901982	Triocular	WF 10x				8.7
3000-C LED	5901983	Binocular	(20 \emptyset)	Planachromatic (PL) phase contrast 4x - 25x - 40x - 100x	Phase contrast	LED	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 .	Mercury lamp 100 W DC. Part No. 5313055
Block with omega fluorescence filter:	U V. Part No. 5313060	Violet. Part No. 5313061
	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**



COMECTA Microscope biological inverted, trinocular "XDS-1B LED"

ISO 9001



APPLICATIONS

Optical microscope with many benefits, specially designed for biomedicine, biology and for culture analysis in matrix flasks and in microtitre plates, flasks, culture vessels, tubes etc. through the use of its objectives and long working distance condenser, technique uses brightfield or phase contrast.

FEATURES

Robust stable design with lateral arm wrist supports for maximum comfort and easy manipulation.

Trinocular head, inclined 45°.

Interpupillary distance adjustable from 53 to 77 mm.

Diopter correction of ± 5 dp in the left eyepiece, used to correct differences in sharpness.

Pair of DIN wide field WF 10x (22 Ø), telescopic central eyepiece phase contrast DZ11x DZ11x and trinocular photography eyepiece **S 5x (9.5 Ø)**.

Objectives DIN planachromatic brightfield, long working distance LWD PL of 10x (A.N. 0.25/working distance W.D.=4.3 mm), 20x (A.N. 0.40/W.D.=8 mm), 40x (A.N. 0.40/W.D.=3 mm) and on **negative phase contrast LWD PL ph** of 10x (A.N. 0.25/W.D.=5 mm), colour coded for rapid identification.

Maximum thickness acceptable for receptacle bases 1.2 mm.

Quadruple objectives turret with rotation in both directions with a roller bearing and notch stop. Rack and pinion height adjustment mechanism with bilateral coaxial focus controls: **micrometer** of 0.2 mm rotation graduated at 0.002 mm increments and **macrometer** with adjustable tension.

Total working distance 12 mm.

Condenser with long working distance (55 mm), brightfield and phase contrast. Precentred, with iris diaphragm and flip out phase contrast. **Including a phase ring of 25x**. Rack and pinions mechanism for height regulation or lateral removal for more height receptacles of up to 145 mm.

Large stage: dimensions 227x208 mm. Includes 3 stages for optimum accommodation of differing sample vessels: plates and or culture flasks, microtitre plates, etc.

Mechanical sub-stage with graduated scale of 1 mm and vernier of 0.1 mm, made up of a smooth mechanism (x-y) rack and pinion drive with 77 mm longitudinal and 114 mm transversal.

Illumination system, diascopic transmitted light by a halogen lamp of 6 V / 20W, precentred by external knobs and controllable intensity.

The unit includes a field diaphragm with filter carousel of green and grey.



Comes complete with 2 flasks, 2 culture plates, wooden holder for eyepieces, objectives and accessories, 2 lamps, 2 spare fuses and a protective cover.

ACCESSORIES

Objectives planachromatic long working distance

Negative phase contrast:

Objective PLL ph 20x

(A.N. 0.40 W.D.=8 mm)

Part No. **5313065**

Objective PLL ph 40x

(A.N. 0.60 W.D.=3,5 mm)

Part No. **5313066**

Adapter thread CCD 0.5 x

Part No. **5313067**

Adapter thread 1 x

Part No. **5313068**

Eyepiece WF10x (22 mm)

With reticule

Part No. **5313064**

5313065

5313066



5313064

Digital reflex photographic kit, composed of a mount, a shutter and a SD memory card of 2Gb.

Part No. **5313222**



5313222

SPARES

3W LED lamp. Part No. **5313029**

MODEL	Part No.	Height / Width / Depth exterior cm	Weight Kg
XDS-1B LED	5901988	58 30 53	17

COMECTA Microscope metallographical inverted "18AT"

EXCELLENT RESOLUTION. PLANACHROMATIC OPTIC.



APPLICATIONS

Microscope with high capabilities.

Made for large sample observations. Samples are placed on top of an open obstruction free stage.

Binocular or Trinocular configuration with a range of accessories, that convert the instrument into an versatile microscope ideal for the identification and analysis of different materials and alloys. Suitable for a wide range of scientific research applications in metallurgy, physical properties of metals, heat treatments and quality control.

FEATURES

Head, binocular or trinocular (model dependent), 45° inclined angle.

Adjustable interpupillary distance from 53 to 77 mm.

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

Paired eyepieces, DIN quality. Wide field of view **WF 10x** (22 mm \emptyset).

Objectives DIN grade, planachromatic brightfield of **10x** (A.N. 0.25), **20x** (A.N. 0.50), **50x** (A.N. 0.70), retractable, and **100x** (A.N. 0.85), retractable, using immersion oil. Colour coded for easy and rapid identification.

Magnification range: 100x, 200x, 500x and 1000x.

The planachromatic objectives provide an excellent image, free from aberrations at the edge of the field of view.

Quadruple rotating objectives turret, rotates in both directions with stop locator when in the correct position.

Large sub stage of 242x200 mm, rack and pinion adjustable height, with bilateral coaxial focus. Micrometer graduated in 0.002 mm steps and **macrometer**, with adjustable tension up to 19 mm.

Safety stop with a pre-set safety level.

Slide holder with scale of 0.1 mm, with a smooth X and Y rack and pinion movement of 15 mm **longitudinal** and 15 mm **transversal** movement.

Illumination: incidental (episcopic), Köhler, that consists of a condenser lens, condenser Abbe of 1.25 A.N., pre-centred with an iris diaphragm,



Model trinocular 18AT.

filters and a pre-centred halogen 6 V / 30 W low voltage controllable light source. **Structure, robust** with an illumination system in the base, intensity potentiometer and illumination switch.

Dimensions: 40 height x 25 Width x 61 cm depth.

Weight: 15 Kg.

Comes complete with a set of filters: blue, yellow, green and matt glass filter.

Microscope Triocular Part No. 18AT. Part No. 5901990

SPARE

Halogen lamp 6 V / 30 W. Part No. 5313069

ACCESSORIES



5313222

Digital reflex photographic kit composed of a mount, a shutter and a SD memory card of 2Gb. CMOS sensor higher than 10 megapixels. Speed up to 3 pictures per second. LCD display of 2,5 inches. Processed with total image control. Large area viewfinder and high luminosity.

Part No. **5313222**

Eyepiece with wide field, of view WF-10x (22 mm) with reticule. Part No. **5313064**

Adapter thread CCD 0.5x.

Part No. **5313067**

Adapter thread CCD 1x.

Part No. **5313068**

Micrograph Kit comprising of:

Photographic adapter mechanism with eyepiece WF-10x with focus adjustment visor and objective of 4x (adaptable to **Digital reflex photographic kit**).

Part No. **5902014**



5902014

COMECTA Eyepiece video camera

ADAPTS DIRECTLY ONTO THE EYEPIECE OF THE MICROSCOPE OR TRINOCULAR HEAD.

Micro video camera 3.1 MP with a USB connection, direct to a PC, includes software.
Part No. **5435030**



COMECTA Light source, cold source, fibre optic "Z-150" CONSTANT COLOR

APPLICATIONS

Microscopy illumination for small samples free from colour alteration.

Especially recommended for microphotography of live biological samples, cultures, micro-organisms, process control, electronic components, dental studies, etc.

FEATURES

Halogen lamp 150 W. Adjustable illumination intensity control. Forced air circulation. Heat absorption filter. Safety transformer fitted. Primary fuse protection.

CONTROL PANEL

Mains switch. Potentiometer controlled light intensity.

MODEL

Part No.	Height / Width / Depth exterior cm	Power W	Weight Kg
5901016	15 19 25	150	4

SPARE Lamp 150 W.
Part No. **5901017**

Supplied with double flexible arm 50 cm long.



COMECTA Microscope accessories and consumables



GLASS SLIDES

Glass slides (smooth): 26 x 76 x 1.5 mm.

Part No. **5600400** Box of 72.

Glass slides (matt end for notes): 26 x 76 x 1.5 mm.

Part No. **5600399** Box of 72.

Cover slip: 18 x 18 mm.

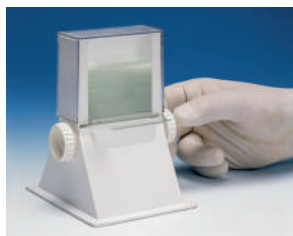
Part No. **5600396** Box of 100.

Cover slip: 22 x 22 mm.

Part No. **5600397** Box of 100.

Cover slip: 24 x 24 mm.

Part No. **5600398** Box of 100.



SLIDE DISPENSER

Base made of ABS with a transparent Polycarbonate lid, with rotating manual dispenser of individual slides.

Capacity 50 slides of 76 x 26 mm.

Part No. **1001366**



CLEANING KIT

Suitable for optical microscopes.

Part No. **5313000**



WOODEN MICROSCOPE BOX

Solid wood, microscope box, of 3 mm thickness, treated with varnish, fitted with a metallic door, clasp lock and a carry handle.

Microscope Box suitable for Model M-100FL, XTX-3C and ZTX-20.

420 high x 255 wide x 285 mm deep. Part No. **5313022**
Microscope Box suitable for Model SQF-L, SQF-E, 2000-A, 2000-B and 2000-C.

Internal dimensions: 420 high x 265 wide x 317 mm deep.
Part No. **5313016**

Slide support, Slide box for storing slides, slide staining stands, etc. (See pages 215 to 219).

COMECTA Disk polarimeter "polar-2010" LED

LAURENT TYPE MODEL
LED LAMP ILLUMINATION

APPLICATIONS

Designed for colleges and universities, chemical laboratories, pharmaceutical, clinics, cosmetics and food industry.

FEATURES

Vernier reading definition. Angle $\pm 0,05^\circ$.

Measuring range of optical rotation: $\pm 180^\circ$.

Rotation scale division: 1° .

Measuring lens 4x.

Ocular with dioptres adjustment.

Slide rack compartment length: for tubes up to 220 mm.

Monochromatic lamp wave length: 589,3 nm.

MODEL

Part No	External measurements cm. Height / Width / Depth	Consumption W	Power V / Hz	Weight Kg
5120220	32 43 14	20	110-220 / 50-60	5

SPARE PARTS

Sodium lamp. Part No. **5120221**



NEW DESIGN