



## Microscopes LB and LT

*Technical characteristics:*

### **STATIVE:**

Sturdy, ergonomical and very stable, with coaxial controls on both sides for macrometric and micrometric focusing knobs. The right macro adjusting control is fitted with a tension control ring. Revolving nose piece with 5 positions

### **ILLUMINATION:**

Low-tension halogenous, 6V-20Watt (230V-50Hz). The illumination can be controlled with a field diaphragm which gives a KOEHLER-type illumination usefull to adapt photography and video systems. Intensity-changing switch and potentiometer.

### **SLIDE:**

Mobile slide. Large-sized slide: 160x130 mm. Transversal movement: 80 mm. Longitudinal movement: 50 mm. Vernier scale graduation: 0,1 mm.

Auto-limiter for slide height.

### **ABBE CONDENSER:**

ABBE condenser with precondenser and iris diaphragm. Numerical opening: 1,25. Easy centering system with 2 frontal knobs. Vertically adjustable..Mobile filterholder with blue and green filters, yellow filter as option.



### OBJETIVES included for models LB and LT

	Numeric Opening	Working distance mm
Acromatic 4X	0,10	15,5
Acromatic 10X	0,25	1,89
Acromatic 40X (retractable)	0,65	0,5
Acromatic 100X (retractable - immersion)	1,25	0,4



### EYEPIECE included

	field diameter
WF 10x	18 mm
P 16x (	10 mm



### TOTAL ENLARGEMENTS

	Objective lens			
	4x	10x	40x	100x
10X Eyepiece	40	100	400	1000
16X Eyepiece	64	160	640	1600

### HEAD

Head Siedentopf model. Inclined 30° for a more efficient observation, and 360° movable. In LB model binocular head incorporated and a triocular head in LT. Symmetrical inter-pupilar graduation between 55 and 75 mm and dioptical correction.



### DIMENSIONS

Wood box and plastic case included.  
 Base: 190x240 mm  
 Height: 395 mm  
 Weight: 6,8 Kg  
 Voltage: 230V-50 Hz

Models		Price
<b>167 Model LB</b>	Binocular microscope With S.plan Achromatic optical (4x, 10x, 25x, 40x and 100x).	
<b>177 Model LT</b>	Triocular microscope With S.plan Achromatic optical (4x, 10x, 25x, 40x and 100x)	
<b>168 Model LBP</b>	Binocular microscope With plan. Achromatic optical (4x, 10x, 25x, 40x and 100x).	
<b>178 Model LTP</b>	Triocular microscope With plan. Achromatic optical (4x, 10x, 25x, 40x and 100x)	

### Optional accesories:

2017	Adapter for Photography camera	2022	Phase contrast equipment turret condenser for light field and phase contrast condenser 10x, 40x and 100x
2037	Adapter for digital camera Olimpus C-5060		Objetives Ph 10x, 40x and 100x
2018	Adapter for camera CCD		Centering telescope (Eyepiece).
2030	Dark field condenser	2339	Amber filter
2010	Eyepiece P10x/18 mm		
2016	Eyepiece P16x/11 mm		
2024	Micrometric Eyepiece 0,1 mm 10x		
2027	2027 Photography Eyepiece 2,5x		
2029	Photography Eyepiece 4x		
2028	Photography Eyepiece 6,3x		
2325	Plan.achromatic objetive 25x		
2501	Halogenous lamp 20watt		
2355	Polarization kit (Analyzer and polarizer)		
2403	Camera Reflex		
2404	Video - camera CCD		



complet range of accesories in pages 178 and 179



## Microscopes OB and OT (BK1000 line)

*Technical characteristics:*

### **STATIVE:**

Sturdy, ergonomical and very stable, with coaxial controls on both sides for macrometric and micrometric focusing knobs (graduated 0,002 mm). The right macro adjusting control is fitted with a tension control ring. Revolving nose piece with 5 positions.

### **ILLUMINATION:**

Low-tension halogenous, 6V-20Watt (230V-50Hz). The illumination can be controlled with a field diaphragm which gives a KOEHLER-type illumination useful to adapt photography and video systems. Intensity-changing switch and potentiometer.

### **SLIDE:**

Mobile slide. Large-sized slide: 150x135 mm. Transversal movement: 77 mm. Longitudinal movement: 50 mm. Vernier scale graduation: 0,1 mm. Auto-limiter for slide height.

### **ABBE CONDENSER:**

ABBE condenser with precondenser and iris diaphragm. Numerical opening: 1,25. Easy centering system with 2 frontal knobs. Vertically adjustable..Mobile filterholder with blue and green filters, yellow filter as option.



### OBJETIVES included for models OB and OT

	Numeric Opening	Working distance mm
Acromatic 4X	0,10	15,5
Acromatic 10x	0,25	6,3
Acromatic 40x (retractable)	0,65	0,44
Acromatic 100x (retractable - immersion)	1,25	0,3



### EYEPIECE included

	Field diameter
WF 10x	18 mm
P 16x	10 mm



### TOTAL ENLARGEMENTS

	Objective lens			
	4x	10x	40x	100x
10X Eyepiece	40	100	400	1000
16X Eyepiece	64	160	640	1600

### HEAD

Head Siedentopf model. Inclined 30° for a more efficient observation, and 360° movable. In OB model binocular head incorporated and a triocular head in OT. Symmetrical inter-pupilar graduation between 55 and 75 mm and dioptrical correction.



### DIMENSIONS

Wood box and plastic case included.

Base: 190x235 mm

Height: 395 mm

Weight: 5,8 Kg

Voltage: 220V-50 Hz

Models		Price
<b>127 Model OB</b>	Binocular microscope With Achromatic optical (4x, 10x, 40x and 100x)	
<b>137 Model OT</b>	Triocular microscope With Achromatic optical (4x, 10x, 40x and 100x)	

### Optional accesories:

2017	Adapter for Photography camera	2022	Phase contrast equipment, turret condenser for light field and phase contrast condenser 10x, 40x and 100x Objectives Ph 10x, 40x and 100x Centering telescope (Eyepiece).
2037	Adapter for digital camera Olimpus C-5060	2339	Amber filter
2018	Adapter for camera CCD		
2030	Dark field condenser		
2010	Eyepiece P10x/18 mm		
2016	Eyepiece P16x/11 mm		
2024	Micrometric Eyepiece 0,1 mm 10x		
2027	Photography Eyepiece 2,5x		
2029	Photography Eyepiece 4x		
2028	Photography Eyepiece 6,3x		
2325	Plan.achromatic objective 25x		
2501	Halogenous lamp 20 watt		
2403	Camera Reflex		
2404	Video-camera CCD		



complet range of accessories in pages 178 and 179



## Microscopes SERIE 700

- Stative with coaxial controls on both sides for macrometric and micrometric focusing knobs (graduated 0,002 mm).
- Large – size slide 210x140mm with X/Y movement 50x75 mm.
- Vernier scale graduation: 0,1 mm
- Revolving nose piece with 5 positions.
- Abbe condenser with NA 1,25 and iris diaphragm.
- Filter holder and blue and green filters.
- 6V/20W halogenous lamp with continuous brightness adjustment Koehler type, with a field diaphragm.
- Head inclined 30° and 360° movable.
- Wide field eyepiece WF10X (20mm Ø)
- Plan.Achromatic objectives: PL4X/0,1, PL10X/0,25, PL20X/0,40, PL40X (0,65) and PL100X (1,25).
- Dimensions: 200x276x408 mm.
- 230V-50 Hz



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- 157 Binocular microscope LBG**
- Eyepiece (pair) WF 10X/20 mm Ø
  - Objective PL4X, PL10X, PL20X, PL40X and PL100X (immersion).

- 158 Binocular microscope LTG**
- Eyepiece (pair) WF 10X/20mm Ø
  - Objectives PL4X, PL10X, PL20X, PL40X and PL100X (immersion).

### Accessories:

- 2048 Adapter for video-camera CCD
- 2047 Adapter for REFLEX camera
- 2046 Adapter for digital camera coolpix (Nikon)
- 2045 Phase contrast equipment
- 2044 Dark field condenser a.n. 0,77-0,91
- 2043 Condensador de campo oscuro inmersión a.n. 1,25-1,40
- 2042 Eyepiece WF 16X (11mm Ø)
- 2041 Micrometric eyepiece 10x
- 2601 Halogenous lamp LBG and LTG
- 2049 Digital video-camera
- 2339 Yellow filter



### Digital microscope SERIE 800

- Stative with coaxial controls on both sides for macrometric and micrometric focusing knobs (graduated 0,002 mm).
- Lage – size slide 140x140mm with X/Y movement 50x75 mm.
- Vernier scale graduation: 0,1 mm.
- Revolving nose piece with 5 positions.
- Abbe condenser with NA 1,25 and iris diaphragm.
- 6V/20W halogenous lamp with continuous brightness adjustment.
- Head inclined 30° and 360° movable.
- Wide field eyepieces WF10X

#### 191 Microscope model 800 A

- Standard microscope without digital camera.
- Achromatic objectives 4x, 10x, 40x and 100x.

#### 192 Digital microscope model 800 DM

- Triocular microscope.
- Achromatic objectives 4x, 10x, 40x and 100x.
- With digital video-camera.
- High digital resolution: 640 x 480 pixels.
- Can be adapted to Video- monitor.

#### 193 Microscopio digital 800 VDM

- Triocular microscope.
- Achromatic objectives 4x, 10x, 40x and 100x.
- With digital video-camera.
- Can be adapted to PC with digital signal.
- Can be adapted to Video- monitor.
- High digital resolution: 640x480 pixels.
- High video resolution: 824x612 pixels.

#### 194 Microscope model 800 P

- Standard microscope without digital camera.
- Plan. Achromatic objectives: 4x, 10x, 20x, 40x and 100x. (Otras configuraciones consultar).



#### Accessories:

- 2022 Phase contrast equipment
  - turret condenser for light field and phase contrast condenser: 10X, 40X and 100X
- 2145 Phase contrast equipment in turret
- 2143 Dark field condenser for immersion
- 2144 Dark field condenser dry NA 0,9
- 2142 Eyepiece WF 16X (11mm Ø)
- 2141 Micrometric eyepiece 10x
- 2140 Objective pla.achromatic 20x
- 2339 Yellow filter



## Microscopes URA.TECHNIC



### Technical characteristics:

- Robust stative, with a high stability for a comfortable microscopical observation.
- Stative with coaxial controls, for macrometric and micrometric focusing knobs graduated 0,002 mm.
- Slide: 154x124 mm with X-Y movement 70x50 mm, vernier scale 0,1.
- Revolving nose piece with 4 positions.
- Abbe condenser a.n. 1,25 Centrable mount and adjustable height.
- Iris diaphragm, filter holder with blue and green filters included.
- Halogenous illumination 6v-20 watt, with intensity control.
- Wood box and plastic case included.

### Optical crew:

- |                              |           | Distance mm |
|------------------------------|-----------|-------------|
| • Achromatic objectives:     | 4x/0,10   | 37,5        |
|                              | 10x/0,25  | 7,32        |
|                              | 40x/0,65  | 0,63        |
|                              | 100x/1,25 | 0,20        |
| • Eyepieces: WF10X and P16x. |           |             |

Total enlargements:

	Objectives			
	4x	10x	40x	100x
Eyepiece 10x	40	100	400	1000
Eyepiece 16x	64	160	640	1600

### MODELS

- 106** Monocular microscope 1600x
- 107** Binocular microscope 1600x
- 117** Triocular microscope 1600x
- 204** Co-observation microscope 1600x



### Accessories:

- |      |                                   |      |  |
|------|-----------------------------------|------|--|
| 1017 | Adapter for photography camera    | 2404 | Video - camera CCD                     |
| 1018 | Video-camera adapter CCD, screw C | 1022 | Phase contrast simple equipment        |
| 1124 | Dark field condenser NA 0,9       |      | • Centering eyepiece, phase rings      |
| 1111 | Eyepiece P10x/18 mm               |      | 10x, 40x and 100x.                     |
| 1116 | Eyepiece P16x/11 mm               |      | Contrast objectives: 10x, 40x and 100x |
| 1024 | Micrometric eyepiece 0,1 mm 10x   | 1301 | Compleat mechanic stage                |
| 1029 | Photography eyepiece 4x           | 1015 | Thermostated slide                     |
| 1105 | Eyepiece H5x                      | 1356 | Petrographic slide rotatory            |
| 1501 | Halogenous lamp 20 watt           |      | with polarization set                  |
| 2403 | Camera Reflex                     |      |  |



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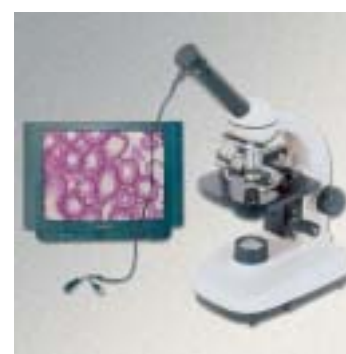
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### Education microscopes URA.TECHNIC

- Microscopes for education, with high optical and mechanical quality.
- Can be adapted a video-camera eyepiece with PC or TV monitor connection.
- Control for macrometric and micrometric adjustment.
- Monocular or binocular head depending models.
- Heads inclined 45° and 360° movables.
- Mounting plate size: 130x120 mm with X-Y movement 60x30 mm (Binocular models).
- Mounting plate size: 125x120 mm with X-Y movement (monocular models).
- Standard enlargements 40x-1600x (119-120) and 40x-600x (118).
- Abbe condenser with iris diaphragm adjustable (models 119 and 120)
- Simple lent condenser with iris diaphragm adjustable (model 118)
- Revolving nose piece with 4 positions (119 and 120) and with 3 positions in model (118).
- Achromatic objectives.
- Eyepiece: WF10x and WF16X
- illumination 6V-15 W (118 and 119) and 6V/20W with intensity control (120 model).
- Included: wood box and plastic case.



Model	Head	Objective	Eyepiece	Enlargement	Price
118	Monocular	4X 10X 40X	10X – 16X	40X – 640X	
119	Monocular	4X 10X 40X 100X	10X – 16X	40X – 1600X	
120	Binocular	4X 10X 40X 100X	10X – 16X	40X - 1600X	

#### Accessories:

- 1170 eyepiece with pointer WF10X/18mm
- 1171 Eyepiece 5x/14 mm
- 1172 Eyepiece 15x/10 mm
- 1181 Achromatic objective 100 x immersion
- 1187 Mobile carriage graduated
- 1188 Lamp for 119
- 1189 Lamp for 120
- 1165 Achromatic objective 60x
- 1166 Achromatic objective 20x
- 2406 Video – camera eyepiece PC connection
- 2407 Video – camera eyepiece TV connection

- 1356 Petrographic slide with polarization set  
Slides with preparations:  
- Botany, Zoology







## Inverted microscope for metallography LAN.OPTICS JP

### Technical characteristics:

- Head inclined 45°, siedentopf type.
- Interpupilar graduation 55-75 mm and diopter adjustment.
- Macro and micro coaxial control graduated.
- Right control with ring to friction control and left control with quick focusing.
- Incident illumination 6V-20W Koehler type, centering and with intensity control with centering thread.
- ABBE condenser with numerical opening 1,25 with precondenser and iris diaphragm.
- Filterholder with 5 filters included.
- Rectangular mounting plate dimensions: 150x200 mm movement X-Y 75x50 mm, graduated scale 0,1 mm.
- Mounting plate adapters n° 1, n° 2, n° 3 and adapters holder.
- Samples holder tweezers.
- Polarizer and analyzer kit.

Weight: 14,0 Kg

### Optical crew included:

Pair of eyepiece WF10X/18 mm.

Pair of eyepiece WF12X/14 mm.

Micrometric eyepiece 10x/0,1 mm.

Zoomer plan achromatic objective: 4x, 10x, 40x, and semi-plan achromatic 100x Immersion in oil.

Output to insert photography and video devices.

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## 174 Inverted microscope for metallography LAN.OPTIC JP

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### Accessories:

2654 Slide 1 mm/0,01 mm

2659 Video adapter C

2658 Photography adapter

2655 Photography eyepiece

2657 Objective plan.achromatic 20x

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### Inverted microscope for metallography

- Head inclined 30°.
- Interpupilar graduation 55-75 mm and diopter adjustment.
- Macro and micro coaxial controls graduated.
- Right control with ring to friction control and left control with quick focusing.
- Incident illumination 6V-20W Koehler type, centering and with intensity control with centering thread.
- ABBE condenser with numerical opening 1,25 with precondenser and iris diaphragm.
- Yellow, blue and green filters included.
- Rectangular slide dimensions: 150x200 mm movement X-Y graduated scale 0,1 mm.
- Optical crew included:
  - Pair of eyepiece WF10X/16 mm.
  - Plan achromatic objectives: PL10X, PL25X, PL40X and PL 100X (immersion in oil).
- Dimensions 410x200x310 mm.
- Weight: 10,8 Kg.
- 230V-50 Hz.

**169 Inverted binocular microscope for metallography**

**179 Inverted triocular microscope for metallography**

#### Accessories:

- 2641 Eyepiece WF 16x
- 2642 Micrometric eyepiece 10x/0,1 mm
- 2649 Video adapter C
- 2648 Photography adapter with eyepiece, view finder, photography objective 4x



### Microscope for metallography SERIE JL

- Direct microscope for metallography.
- Slide dimensions: 274x274 mm, with movement 203x203 mm.
- Macrometric and micrometric focusing knobs.
- Triocular head inclined 30° with analyzer.
- Revolving nose piece with 5 positions.
- Optical crew included:
  - Pair of eyepiece WF 10X/18 mm Ø.
  - Plan achromatic objectives: 5X/0,12, 10X/0,25, 20X/0,40, 40X/0, 60 y 80x/0,80.
- Illumination: 6V-20 W.
- Filters and polarizer.
- 230V-50 Hz.

**175 Microscope for metallography JLA**

Slide dimensions: 274x274 mm (203x203 mm movement)

**176 Microscope for metallography JL**

Slide dimensions: 250 x 230 mm (153x153 mm movement)

#### Accessories:

- 2680 Adapter for video camera CCD 0,5x reticulated
- 2681 Micrometric eyepiece 10x/0,1 mm
- 2682 Plan.achromatic objective PL50X/0,7
- 2683 Adapter for digital camera Nikon 4500, 950, 995
- 2684 Plan.achromatic objective PL60X/0,85
- 2685 Plan.achromatic objective PL100X/1,25





### Inverted biological microscope LAN.OPTICS DS

- High quality microscope, for biology, microbiology, cell culture...
- For observing living cells attached to the bottom of culture vessels or suspended in the culture medium.

#### Technical characteristics:

- Triocular head inclined 45°, Siedentopf type.
- Interpupilar graduation 55-75 mm and diopter adjustment.
- Macro and micro coaxial control graduated.
- Right control with ring to friction control and left control with quick focusing.
- Halogenous illumination 6V-20W, centering and with intensity control with centering thread field diaphragm and filters stand in giratory turret, with: green, yellow, blue and neutral filters included.
- Large working distance condenser, 30 mm a.n. 0,40 centering and adjustable height.
- Rectangular mounting plate dimensions: 155x180 mm, movement 75x50 mm
- Mounting plate III, IV, V, adapters and tweezers to work with Erlenmeyer flasks, culture vessels...
- Vertical output to insert photographic and video devices.

#### 166 Triocular biological microscope DS

- Pair of eyepiece WF10X/20 mm and WF16X/14 mm
- Large working distance plan.achromatic objectives LWD10X, LWD25X and LWD40X.
- Plan achromatic objective of negative phase contrast large working distance LWD 25X.
- Ring for phase contrast 25x and centering eyepiece.

#### 165 Binocular biological microscope DS-2

- Pair of eyepiece WF10X/20 mm and WF16X/14 mm.
- Large working distance plan.achromatic objectives LWD10X, LWD25X and LWD40X.
- Plan achromatic objective of negative phase contrast large working distance LWD 25X.
- Ring for phase contrast 25x and centering eyepiece.

#### Accessories:

- 2664 Micrometric slide 1 mm/0,01 mm
- 2669 Video adapter C
- 2668 Adapter for Reflex camera
- 2666 Adapter for Digital camera Olympus C5060
- 2662 Phase contrast objective and plan achromatic ring 40x
- 2663 Phase contrast objective and plan achromatic ring 10x



# Microscopios invertidos biológicos

## Inverted biological microscope

### Inverted biological microscope

- High quality microscope, for biology, microbiology, cell culture...
- For observing living cells attached to the bottom of culture vessels or suspended in the culture medium.

#### Technical characteristics:

- Triocular head inclined 30°.
- Interpupilar graduation 55-75 mm and diopter adjustment.
- Macro and micro coaxial control graduated.
- Halogenous illumination 6V-20W, centering and with intensity control with field diaphragm.
- Right control with ring to friction control and left control with quick focusing.
- Large working distance condenser, 30mm a.n. 0,40 centering and adjustable height, diaphragm and filters.
- Rectangular slide dimensions: 200x140 mm, movement 79x112 mm (model 172) or 70x30 mm ( model 173).
- Adapters and tweezers for slide to work with Erlenmeyer flasks, culture vessels...
- Vertical output to insert photographic and video devices.

#### 173 Inverted biological microscopes XDS

- Pair of eyepieces WF10X/18 mm
- Large working distance plan.achromatic objectives PL10X, PL25X and PL100X.
- Phase contrast objective large working distance 10X PL 10XPH
- Ring for phase contrast 10x.
- Illumination: 6V-20W.

#### 172 Inverted biological microscopes XDS II

- Pair of eyepieces WF10X/20 mm
- Large working distance plan.achromatic objectives PL10X, PL25X and PL40X.
- Phase contrast objective large working distance 10X PL 10XPH.
- Ring for phase contrast 10x.
- Slide able to work with 96 wells microplates.
- Illumination: 6V-30W.

#### Accessories:

- 2673 Eyepiece WF20X/11 mm Ø
- 2675 Eyepiece WF16X/ 11 mm Ø
- 2672 Ultra-large working distance condenser 70 mm
- 2679 Video adapter C
- 2678 Adapter for camera Reflex with finder
- 2676 Phase contrast objective 25x
- 2677 Phase contrast objective 40x
- 2674 Photographic eyepiece 2,5/4x



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## Stereo-microscopes with zoom LAN.OPTICS

Stereo-microscopes serie 250 LAN.OPTICS, are designed for works in industrial, and research laboratories and for high education works too.

### Technical characteristics:

- Zoom range 0,7-4,5x with coaxial controls, with total parfocality and centering.
- Head inclined 45° and movable 360°, interpupilar graduation 55-75 mm with diopter adjustment ±5.
- Illumination: Incident and transmitted 6V-15 W with intensity control.
- Included: black/withe contrast plate, anti-reflective glass and 2 tweezers.
- Included: wood box and plastic case.

### Optical crew included:

Objetive 1x.

Eyeiece WF 10x / 20 mm.

Optional enlargements: from 3,5x up to 180x(with eyeiece: 15x or 20x and objetives 0.5, 1.5, and 2x optional).

Voltage: 220V-50 Hz



Zoom	Objetive	Working distance	Eyeiece 10x/20 mm Enlarg.	Ø field mm	Eyeiece 15x/15 mm Enlarg.	Ø field mm	Eyeiece 20x/11 mm Enlarg.	Ø field mm
0,7x	1x	91 mm	7x-45x	32,8-5,1 mm	10,5x-67,5x	22-3,4 mm	14x-90x	14,6-2,6 mm
↑	0,5x	150 mm	3,5x-22,5x	65-10,2 mm	5,3x-33,8x	44-6,8 mm	7x-45x	32,8-5,2 mm
↓	1,5x	49 mm	10,5x-67,5x	21,6-3,4 mm	15,8x-101,3x	14,6-2,2 mm	21x-135x	10,9-1,7 mm
4,5x	2x	34 mm	14x-90x	16,4-2,6 mm	21x-135x	11-1,7 mm	28x-180x	8,2-1,3 mm

**250** Stereo-microscope binocular with zoom LAN.OPTICS SB

**253** Stereo-microscope triocular with zoom LAN.OPTICS ST



### Accessories:

- 4005 Objetive 0,5x
- 4015 Objetive 1,5x
- 4020 Objetive 2x
- 4034 Fotografic-camera adapter with finder
- 4036 Video-camera adapter CCD
- 4037 Video-camera adapter CCD with optics 0,7x
- 4028 Halogenous lamp serie 250
- 4016 Eyeiece 15x
- 4021 Eyeiece 20x
- 4031 Fotografic eyeiece
- 4025 Micrometric eyeiece 10x



### Stereo-microscopes with zoom LAN.OPTICS

Stereo-microscopes serie 270 LAN.OPTICS, are designed for works in industrial, and research laboratories and for high education works too.

*Technical characteristics:*

- Zoom range 0,7 - 4,5x with coaxial controls, with total parfocality and centering.
- Head inclined 45° and revolving 360° interpupilar graduation 55-75 mm with diopter adjustment  $\pm 5$ .
- Illumination: Incident and transmitted 12V-20 W with intensity control. Included: black/with the contrast plate, anti-reflective glass and 2 tweezers.
- Included: wood box and plastic case.

**Optical crew included:**

Objetive 1x.

Eyeiece WF10X/20 mm.

Enlargements adjustable from 7x up to 45x (with standard crew).

Optional enlargements: from 2,1x up to 225x (with eyeiece: 20x or 25x and obje- tives 0.5, 1.5, and 2x optional)

Ergonomic base with size: 29 x 23 x 7 cm. 220V/50 Hz.



Zoom	Objetive	Working distance	Eyeiece 10x/20 mm Enlarg. Ø field mm	Eyeiece 15x/15 mm Enlarg. Ø field mm	Eyeiece 20x/11 mm Enlarg. Ø field mm
0,7x	1x	95 mm	7x-45x 28,6-4,4 mm	14x-90x 17-2,7 mm	17,5x-112,5x 12,9-2 mm
↑	0,5x	156 mm	3,5x-22,5x 57-8,8 mm	7x-45x 34-5,4 mm	8,8x-56,3x 25,8-4 mm
↓	1,5x	44 mm	10,5x-67,5x 21,6-3,4 mm	21x-135x 11,3-1,8 mm	26,3x-169x 8,6-1,3 mm
4,5x	2x	30 mm	15x-90x 14,3-2,2 mm	28x-180x 8,5-1,4 mm	35x-225x 6,5-1 mm

**270 Stereo-microscope binocular with zoom LAN.OPTICS NB**

**273 Stereo-microscope triocular with zoom LAN.OPTICS NT**

**Accessories:**

- |      |  |      |   |
|------|--|------|---|
| 4605 | Objetive 0,5x                          | 4626 | Eyeiece 20x/12 mm                         |
| 4610 | Objetive 1,5x                          | 4027 | Eyeiece 25x/9 mm                          |
| 4615 | Objetive 2x                            | 4629 | Eyeiece 10x/23 mm                         |
| 4641 | Photografic eyeiece                    | 4049 | Articulated desk support without platform |
| 4644 | Photografic-camera adapter with finder | 4634 | Eyeiece 15x/15 mm                         |
| 4646 | Video-camera adapter CCD               | 4058 | Halogenous lamp serie 270                 |
| 4622 | Eyeiece WF 5X/22                       | 4684 | Dark field condenser                      |
| 4633 | Micrometric eyeiece 10x                |      |   |



**280 Video-microscope with zoom XZ**

- Multifunction: can be adapted to PC or TV monitor.
- USB conection for PC.
- Digital video-camera eyeiece.
- High resolution: 640x480 pixels.
- Zoom:0,7-4,5X
- Enlargements: 7X-45X
- Working distance: 90 mm.
- LED with intensity regulable and long - life: 20.000 hours
- Large stative dimensions: 220 x 284 mm.





## Stereo-microscopes with zoom LAN.OPTICS

Stereo-microscopes serie 290 LAN.OPTICS, are designed for works in industrial, and research laboratories and for high education works too.

### Technical features:

- Zoom range 0,7x – 4,5x (zoom ratio 1:6.5) Operative on both sides, with total par focality and centering.
- Head inclined 45° and revolving 360°, interpupilar graduation 55-77 mm with diopter adjustment  $\pm 5$ .
- Incident halogenous illumination 6V-15W, and transmitted fluorescent 5 Wat with glass filter and intensity control.
- Included: light glass plate of 95 mm and 2 tweezers.

### Optical crew included:

Objective 1x.

Eyepiece WF10X/20 mm.

Enlargements adjustable from 7x up to 45x (with standard crew).

Optional enlargements: from 2,1x up to 225x (with eyepiece: 20x or 25x and objectives 0.3, 0.5, 1.5, and 2x optional).

Ergonomic base with size: 24x18x6 cm

Voltage: 220V/50 Hz



**290** Stereo-microscope binocular with zoom LAN.OPTICS HB

**293** Stereo-microscope triocular with zoom LAN.OPTICS HT

### Accessories:

- 4503 Objective 0,3x
- 4505 Objective 0,5x
- 4510 Objective 1,5x
- 4515 Objective 2x
- 4544 Photografic-camera adapter with finder
- 4546 Video-camera adapter CCD
- 4549 Articulated support with platform
- 4533 Micrometric eyepiece 10x
- 4526 Eyepiece 20x/12 mm
- 4528 Eyepiece 25x/9 mm
- 4529 Eyepiece 10x/22 mm
- 4534 Eyepiece 15x/15 mm
- 4522 Eyepiece 5x/24 mm
- 4548 Articulated desk support without platform



## Stereo-microscope with zoom



- 240 STEREO-MICROSCOPE with zoom**
- Zoom range 1,0 - 4,0x with coaxial controls, with total par-focality and centering.
  - Head inclined 45° and revolving 360° interpupilar graduation 51-75 mm with diopter adjustment  $\pm 5$ .
  - Illumination: Incident and transmitted 12V-10 W with intensity control.
  - Included: black/white contrast plate, anti-reflective glass and 2 tweezers.
  - Included: wood box and plastic case.

**Optical crew included:**

- Objetive 1x.
- Eyepiece WF10X/20 mm.
- Enlargements adjustable from 10x up to 40x (with standard crew).
- Optional enlargements: from 10x up to 160x
- Voltage: 220V/50 Hz.

**240 Stereo-microscope with zoom 10x-40x**

**4673 Objetive 2x**

**4674 Eyepiece 20x**

## Stereo-microscopes URA.TECHNIC without zoom

- Focus by means of controls on both sides, by pinion and rack.
- Diopter adjustment and interpupilar distance between 51 and 75 mm.
- Binocular head inclined 45°.
- Model 213 has straight head.
- Head inclined 45° and revolving 360°.
- Stable base with black/white contrast plate, anti-reflective glass and sample holder tweezers.
- Pair of eyepieces WF10X included and pair of spectacle glasses.
- Included: wood box and plastic case.
- Voltage: 220V-50 Hz.



	213	218	219
Objetives	2x	2x-4x	2x-4x
Eyepieces	10x	10x	10x-20x
Standard enlargements	20x	20x-40x	20x-40x-80x
Price			

**Accessories:**

- 1120 Pair eyepieces 20x
- 1504 Halogenous lamp serie 218
- 4063 Halogenous lamp serie 240



### Video camera eyepiece

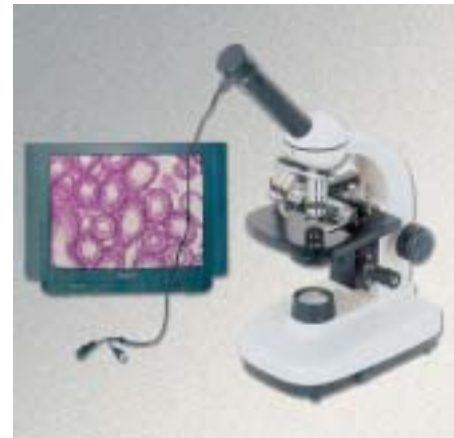
- Adaptable to eyepiece holder in monocular, binocular or triocular microscopes.
- Sensor 1/3".
- Colour system PAL.
- Supplied with adapter up to 30 mm for stereomicroscopes.
- High resolution, aprox. 350.000 pixels.

#### 2406 Video-camera eyepiece

- With USB connection for PC, software included.

#### 2407 Video-camera eyepiece

- With direct connection to TV monitor.



### Video camera zoom microscope

- Eyepiece WF10X.
- Zoom 0,7-4,5X (enlargement 7X-45X).
- Working distance 90 mm.
- Video-camera with resolution aprox 350.000 pixels.
- USB connection for PC (connection to TV monitor, optional).

#### 2408 Zoom microscope with video camera

- To be connected to PC with USB connection.

#### 2409 Zoom microscope with video camera

- To be connected to TV monitor.



### Video camera CCD

- Sensor CCD 1/3".
- Resolution aprox: 320.000 pixels.
- Colour system PAL.
- Electronic iris.
- Sensitivity: 0,1 lux.
- Dimensions: 112x50x47 mm.
- Weight: 0,3 Kg.

#### 2404 Video camera CCD



### Light lamp

#### 2055 Cold light lamp by optical fibre

- Cold light generator of 150W, halogenous.
- Continuous light intensity controller.
- 2 flexible arms with length: 550 mm. Focusing lenses.
- Dimensions: 38x26x21 cm.
- Weight: 3,6 Kg.

#### 2056 Cold light lamp by optical fibre

- Cold light generator of 150W, halogenous.
- Continuous light intensity controller.
- Arm length: 800 mm and ring for stereo-microscope. Zoom up to 70 mm Ø.
- Dimensions: 38x26x21 cm.
- Weight: 3,6 Kg.



- 2155** Lamp for cold light lamp 2055
- 2154** Lamp for cold light lamp 2056
- 2057** Flexible light lamp halogenous 20 w.  
Steerable arm and light intensity controller.

### Eyepieces for biological microscopes

- 2010** Eyepiece WF10X/18 mm
- 2009** Eyepiece WF10X/20 mm
- 2016** Eyepiece WF16X/11 mm
- 2024** Micrometric eyepiece WF10X/0,01 mm
- 2088** Pointer eyepiece WF10X

### Objetives for biological microscopes

Code	Objetives	Enlargements	Price/Unit
<b>1204</b>	Achromatic	4X	
<b>1210</b>	Achromatic	10X	
<b>1220</b>	Achromatic	20X	
<b>1240</b>	Achromatic	40X	
<b>1260</b>	Achromatic	60X	
<b>1299</b>	Achromatic (oil immersion)	100X	
<b>2204</b>	S.plan.Achromatic	4X	
<b>2210</b>	S.plan.Achromatic	10X	
<b>2240</b>	S.plan.Achromatic	40X	
<b>2299</b>	S.plan.Achromatic (oil immersion)	100X	
<b>2304</b>	Plan.achromatic	4X	
<b>2310</b>	Plan.achromatic	10X	
<b>2320</b>	Plan.achromatic	20X	
<b>2325</b>	Plan.achromatic	25X	
<b>2340</b>	Plan.achromatic	40X	
<b>2360</b>	Plan.achromatic	60X	
<b>2399</b>	Plan.achromatic (oil immersion)	100X	
<b>2504</b>	∞ Achromatic	4X	
<b>2510</b>	∞ Achromatic	10X	
<b>2539</b>	∞ Achromatic	40X	
<b>2599</b>	∞ Achromatic (oil immersion)	100X	
<b>2604</b>	∞ Plan.achromatic	4X	
<b>2610</b>	∞ Plan.achromatic	10X	
<b>2620</b>	∞ Plan.achromatic	20X	
<b>2640</b>	∞ Plan.achromatic	40X	
<b>2699</b>	∞ Plan.achromatic (oil immersion)	100X	

**2355** Polarization Kit LAN.OPTICS

- Analyzer and polarizer.

**1355** Polarization Kit URA.TECHNIC

- Analyzer and polarizer.

**1356** Petrography slide giratory

- With analyzer and polarizer.

