

With clarity of vision to respond to the growing needs in modern microscopy, LABOMED was founded on its unique abilities to design and manufacture high precision Microscopes and Optical Instruments. From design concepts to finished products, LABOMED captures the essence of optical perfection.

LABOMED offers a modular line of microscopes from the elementary level to fully extendable systems for research applications. Continuous innovations, adherence to strict quality norms and precision manufacture, make these instruments recognized across the world.

Proud of its past but focused on the future, LABOMED continues to pursue total customer satisfaction through continuous innovation.



BRIGHTFIELD



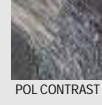
DARKFIELD



FLUORESCENCE



PHASE CONTRAST



POL CONTRAST

Types of Microscopy

- Sigma
- CxL
- Lx 400
- Lx FLR
- Lx 500
- TCM 400
- Luxeo 2S
- Luxeo 4Z
- iVu 1500
- iVu 3000

Educational Microscopy Solution

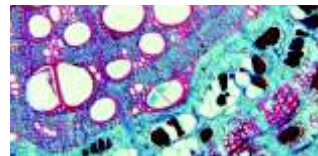
sigma



Eye Tube	Integrated Monocular, 45° inclined
Eye-piece	WF 10x
Field of View	18mm
Objectives	EP DIN Semi Plan Achromat
Nosepiece	Quadruple, reversed angle
Stage	Stage plate 125 x 120mm, optional clip-on mechanical stage
Illumination	LED illumination, variable intensity control with illuminated On/Off switch, Built-in battery, Universal Power Supply (100V - 240V AC)
Focus	Co-axial coarse and fine focusing with gear movements Fine adjustment stroke: 0.2mm per stroke
Viewing height	356.1mm
Footprint	179.6mm x 259.5mm (W x D)

Lab Microscopy Solution

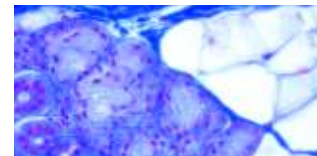
CxL



Eye Tube	Monocular, Binocular, Trinocular, 45° inclined
Eye-piece	WF 10x
Field of View	18mm
Objectives	LP DIN Semi Plan Achromat, RP DIN Phase Achromat
Condenser	ABBE with aspheric lens, NA 1.25
Nosepiece	Quadruple
Stage	Mechanical stage 135 x 124mm, X/Y travel 76 x 50mm
Illumination	Halogen 6V20W illumination or LED with built in battery illumination with variable illumination control, Universal Power Supply (100V - 240V AC)
Focus	Co-axial coarse and fine focusing with gear movements Fine adjustment stroke: 0.2mm per stroke
Viewing height	363.56mm
Footprint	227mm x 255mm (W x D)

Clinical Microscopy Solution

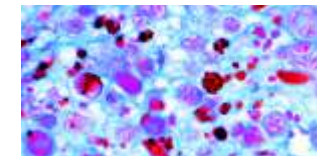
Lx 400



Optical System	Color Corrected Infinity System
Eye Tube	Binocular/Trinocular, 30° inclined
Eye-piece	WF 10x
Field of View	20mm
Objectives	RP DIN Plan Achromat, RP DIN Phase Achromat
Condenser	Fixed ABBE with aspheric lens, NA 1.25
Nosepiece	Quadruple, reversed angle
Stage	Rackless mechanical stage, 200 x 160mm, X/Y travel 78mm x 54mm, double slide carrier
Illumination	Halogen 6V20W/30W illumination or LED with built in rechargeable battery, Universal Power Supply (100V - 240V AC, 50/60Hz)
Focus	Co-axial coarse and fine focusing with gear movements Fine adjustment stroke: 0.3mm per stroke
Viewing height	360.6mm
Footprint	227mm x 284mm (W x D)

Research Microscopy Solution

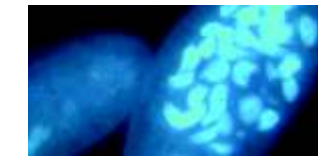
Lx 500



Optical System	Color Corrected Infinity System
Eye Tube	Binocular/Trinocular 30°/ Binocular 0°-25° inclinable
Eye-piece	WF 10x
Field of View	22mm
Objectives	RP DIN Plan Achromat, RP DIN Phase Achromat
Condenser	ABBE with aspheric lens, NA 1.25
Nosepiece	Quadruple reversed
Stage	Rackless Ceramic mechanical stage, 200 x 160mm, 76mm x 50mm cross travel
Illumination	Köhler illumination with halogen 6V-30W, Universal Power Supply (100V - 240V AC, 50/60 Hz)
Focus	Co-axial coarse and fine focusing with gear movements Fine adjustment stroke: 0.3mm per stroke
Viewing height	419.5mm
Footprint	227mm x 301.9mm (W x D)

Research Fluorescence Microscopy

Lx FLR



Optical System	Color Corrected Infinity System
Eye Tube	Binocular/Trinocular, 30° inclined
Eye-piece	WF 10x
Field of View	20mm
Objectives	RP DIN Plan Achromat, RP DIN Phase Achromat
Condenser	ABBE with aspheric lens, NA 1.25
Nosepiece	Quadruple, reversed angle
Stage	Rackless mechanical stage, 200 x 160mm, X/Y travel 78mm x 54mm, double slide carrier
Illumination	Fluorescence illumination 50W Hg bulb and Transmitted Halogen 6V 20W, Universal Power Supply (100V - 240V AC, 50/60Hz)
Focus	Co-axial coarse and fine focusing with gear movements Fine adjustment stroke: 0.3mm per stroke
Viewing height	360.6mm
Footprint	227mm x 284mm (W x D)

CxL with iVu 1500 Camera

CxL with iVu 1500



CMOS Sensor	1/3" Color CMOS sensor
Effective Pixels	1280 (H) x 960 (V)
Resolution	1.3 Megapixel
Scanning system	Progressive scan
Frame speed	15 fps at 1280 x 960
Mount	With C-mount, Automatic Shutter, Automatic White Balance
Communication protocol	USB v2.0
Operating system	Windows™ 2000 / XP / VISTA
Software	DigiPro™ v5.0 Image analysis software for still or video image capturing, manipulation, archiving and measurement

TCM 400

Inverted Microscopy Solution



Optical System	Color Corrected Infinity System
Eye Tube	30°, 0° - 25° inclined
Eye-piece	WF 10x
Field of View	22mm
Objectives	True Color Long Working LW DIN Phase Plan Achromat
Condenser	Long working distance, NA 0.30
Nosepiece	Quadruple
Stage	Fixed stage, 160 x 240mm, Specimen holders for 35mm Petri dish and three dish/sample holders
Illumination	6V-30W Halogen, Universal Power Supply (110V - 240V AC) UL-CE approved
Focus	Co-axial coarse and fine focusing, min. increment: 2 micron, tension control and auto focus stop
Viewing height	390mm
Footprint	300mm x 375mm (W x D)

Lx 400 with iVu 3000

Advance Zoom Stereo Microscope



CCD Sensor	1/2" Color CMOS sensor
Effective Pixels	2048 (H) x 1536 (V)
Resolution	3.15 Megapixel, Firewire
Optical System	Color Corrected Infinity System
Eye Tube	Trinocular, 30° inclined
Eye-piece	WF 10x
Field of View	20mm
Objectives	RP DIN Plan Achromat, RP DIN Phase Plan Achromat
Illumination	Halogen 6V-20W/30W illumination or LED with built in rechargeable battery, Universal Power Supply (100V - 240V AC, 50/60Hz)
Viewing height	360.6mm
Footprint	227mm x 284mm (W x D)

Luxeo 2s

Stereo Microscopy Solution



Stand	Integrated stand with built in LED incident and transmitted illumination
Eye Tube	45° inclined
Eye-piece	WF 10x/18mm, Optional WF 16x/16mm, WF 20x/12mm
Field of View	18mm
Objectives	1x/3x, adjustable with magni-changer knob
Illumination	Built in LED ring light for incident illumination and LED base light for transmitted illumination
Focus	Coarse focusing knobs
Viewing height	318mm
Footprint	176mm x 274mm (W x D)

Luxeo 4z

Zoom Stereo Microscope



Stand	Integrated stand with built in LED incident and transmitted illumination
Eye Tube	45° inclined
Eye-piece	WF 10x/20mm, Optional WF 16x/16mm, WF 20x/12mm
Field of View	20mm
Magnification	8x - 35x, 4.4:1 zoom ratio
Auxiliary Objectives	0.5x, 1.5x, 2.0x
Illumination	Built in LED ring light for incident illumination and LED base light for transmitted illumination
Focus	Coarse focusing knobs
Viewing height	318mm
Footprint	176mm x 274mm (W x D)

Stereo Specifications

	Luxeo 2S	Luxeo 4Z
Auxiliary Objectives		✓
Eye-piece	✓	✓
Plain Stand	✓	✓
Bright Field	Reflected illumination ✓ Transmitted illumination ✓	✓
Dark Field	Fiber Optic illumination ✓	✓
Polarization	✓	✓

Compound Specifications

	Sigma	CxL	Lx 400	Lx 500	TCM 400
Brightfield Light	✓	✓	✓	✓	✓
Darkfield	✓	✓	✓	✓	✓
Phase	✓	✓	✓	✓	✓
Fluorescence	✓	✓	✓	✓	✓
Polarization	✓	✓	✓	✓	✓
Documentation	Photo ✓ Video ✓ Digital ✓	✓	✓	✓	✓
Co-observation	✓	✓	✓	✓	✓

Objectives

Objective Type	Magn.	N.A.
EP Semi Plan Achromat	4x	0.10
	10x	0.25
	40x	0.65
	100x	1.25
LP Semi Plan Achromat	4x	0.10
	10x	0.25
	20x	0.45
	40x	0.65
LP Phase Achromat	10x	0.25
	40x	0.65
	50x	0.80
	100x	1.25
RP Infinity corrected Plan Achromat	4x	0.10
	10x	0.25
	40x	0.65
	100x	1.25
RP Infinity corrected Phase Plan Achromat	10x	0.25
	20x	0.45
	40x	0.65
	100x	1.25
LW Infinity corrected Phase Plan Achromat (Long working distance), Inverted	4x	0.10
	10x	0.25
	20x	0.45
	40x	0.65



Represented in SA by
ADELAB SCIENTIFIC
36 Holland Street
Thebarton SA 5031
Ph 08 8234 7955
Fax 08 8234 7897
Email: info@adelab.com.au
Web: www.adelab.com.au

Labo America, Inc.
920, Auburn Court
Fremont, CA 94538
U.S.A.

eFax: (510) 991 9862
Email: sales@laboamerica.com



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Microscopy Solutions

