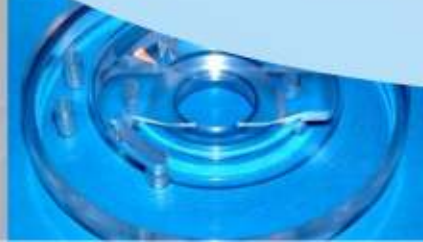
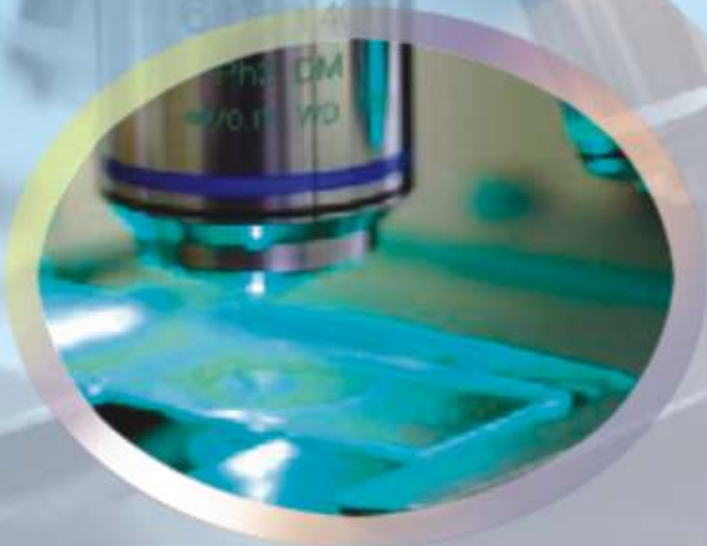


MICROSCOPE

- Biological Microscopes**
- Reflected Microscopes**
- Polarised Microscopes**
- Metallurgical Microscopes**
- Stereo Microscopes**
- Video Microscopes**
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LBM 100 Series



Technical Specification & Ordering Information :

Model No.	LBM 100 A	LBM 100 B	LBM 100 C	LBM 100 D
Eyepiece	WF10X / 20mm		WF10X	
Eyepiece Head	Seidentopf Binocular, Inclined at 30°		Sliding Binocular, Inclined at 45°	
Achromatic Objectives	4X, 10X, 40X (Spring), 100X (Spring & Oil)			
	20X	-	20X	-
Stage	Double layer mechanical stage			
	Removable two slide holder	-		
Moving Range	190 x 140mm	180 x 150mm	180 x 150mm	140 x 140mm
Travel Area	78(X) x 55(Y)mm	75(X) x 50(Y)mm		75(X) x 45(Y)mm
Condenser	Abbe type N.A. 1.25 with Iris Diaphragm			
Illumination	6V/20W Halogen lamp	12V/20W Halogen lamp		6V/20W Halogen lamp
Focus	Coaxial coarse/fine focusing knobs	30mm Coarse / Fine focusing range; Focusing interval 0.002mm		
Magnification Range	40X~1000X			
Catalog No.	39480101	39480102	39480103	39480104

LBM 101 Series



Technical Specification & Ordering Information :

Model No.	LBM 101 A	LBM 101 B	LBM 101 C	LBM 101 D
Eyepiece	WF10X, WF16X			
Eye Piece Head	Monocular Head	Articulated Free Binocular Head	Compensation Binocular Head	Compensation Trinocular Head
Achromatic Objective	4X, 10X, 40X (S), 100X(S, Oil)			
Stage	Double layer Mechanical stage			
Size	125 x 120mm		140 x 140mm	
Moving Range	30 x 75mm		75 x 45mm	
Condenser	Abbe condenser N.A.1.25			
Illumination	110-220V, 6V/20W Halogen Tungsten bulb lamp Built in Lamp, Adjustable brightness		6V/20W Halogen Lamp, Adjustable brightness	
Focus	Coaxial Coarse & Fine Adjustment		Coaxial Coarse & Fine Adjustment, Focusing Range 30mm, Focusing Interval 0.002mm	
Nosepiece	-		Quadruple	Quintuple
Catalog No.	39490101	39490102	39490103	39490104

LBM 102 Series

Technical Specification & Ordering Information :

Model No.	LBM 102 A	LBM 102 B	LBM 102 C	LBM 102 D
Eyeiece	WF10X, 19mm Field number with or without pointer / Polarizer eyepiece 10X			
Eyeiece Head	Monocular	Slide type Binocular,	Dual Head	Video / Dual Head
	Inclined 45°, 360° Rotatable			
Achromatic objectives	Achromatic / Semi Plan Achromatic (4X, 10X, 25X (S), 63X (S), 100X (O, S) / Phase Contrast 10X, 20X, 40X (S), 100X (O, S)			
Condenser	Disc Diaphragm N.A. 0.65 with or without filter holder / Iris Diaphragm N.A. 1.25 (Abbe type with filter holder / Phase contrast)			
Illumination	Concave-plan reflector, 50mm / Fluorescent Lamp 110V or 220V/5W / Halogen Lamp 12V/20W / Incandescent Lamp 110V or 220V/20W			
Focus	Polarizer / Coaxial coarse / Detached coarse (Coarse range: 10mm; Fine range: 1.8mm)			
Stage	Up-down stage (Area: 120mm x 120mm); Mechanical stage (Area: 125mm x 125mm)			
Magnification Range	40X~1000X			
Catalog No.	39510101	39510102	39510103	39510104



Metallurgical Microscopes

LMM Series

Technical Specification & Ordering Information :

Model No.	LMM 100 A	LMM 100 B	LMM 100 C
Eyeiece		WF10X, WF12.5X	
Eyeiece Head	Monocular	Binocular	Trinocular
Objective	Achromatic: 4X / 0.1, 10X / 0.25 Plan Achromatic: 40X / 0.65		
Stage	Double layers mechanical stage		
Illumination	6V/20W Halogen lamp		
Magnification Range	32X~500X		
Catalog No.	39550101	39550102	39550103



Reflected Transmitted Microscopes

LRTM Series

Technical Specification & Ordering Information :

Model No.	LRTM 100 A	LRTM 100 B	LRTM 100 C	LRTM 100 D
Eyeiece	WF10X / 18mm			
Eyeiece Head	Trinocular (inclination of 30°), Including analyzer			
Achromatic Objectives	PL5X, PL10X, PL40X(S), PL60X(S)	PL5X, PL10X, PL20X, PL40X(S), PL60X(S)		
Condenser	Abbe type N.A.1.25 Rack & Pinion adjustable with ground glass			
Filter	Green & Blue filter	Blue filter	Green & Blue filter	Blue filter
Illumination	6V/20W Halogen lamp, Adjustable brightness; Vertical illumination with polarizer			
Focus	Coaxial coarse/fine focus system, with tension adjustable and limit stopper Minimum division of fine focusing: 0.002mm			
Stage	Mechanism stage (Size: 160 x 40mm; Moving range: 50 x 75mm)			
Nosepiece	Backward ball bearing inner locating			
	Quadruple		Quintuple	
Catalog no.	39520101	39520102	39520103	39520104



Reflected Fluorescence Microscopes

LRF Series



LRF 100 Series

Technical Specification & Ordering Information :

Model No.	LRF 100A	LRF 100B
Eyepiece	WF10X	
Eyepiece Head	Trinocular (Including analyzer)	
Objectives	Fluorescence obj. FL25X, FL40X(S), PL4X, PL10X, PL40X(S), PL100X(S)	
	PL25X	
Illumination	Power unit 110/220V, Mercury lamp house 100W/DC, Reflected fluorescence illuminator, B.G excitation system	
Nosepiece	Quadruple	Quintuple
Catalog No.	39490201	39490202

Inverted Microscopes

LIM Series



LIM 100 Series

Technical Specification & Ordering Information :

Model No.	LIM 100 A	LIM 100 B
Eyepiece	WF10X	
Eyepiece Head	Trinocular	
Objectives	Plan Achromatic: PL10X, PL25X, PL40X; Plan Achromatic Phase-contrast PL10X	
Condenser	Contrast condenser N.A. 0.4	
Illumination	6V / 20W Halogen lamp, Adjustable brightness	
Focus	Coaxial coarse & fine focusing, mechanism with tension adjustable & focus stop; Minimum increment = 0.002mm	
Stage	200 x 140mm	
	Moverange: 30 x 75mm	Moverange: 79 x 112mm
Catalog No.	39490301	39490302

LIM 101 Series

Technical Specification & Ordering Information :

Model No.	LIM 101 A	LIM 101 B
Eyepiece	WF10X (φ18mm), WF16X (φ11mm)	WF10X (φ18mm), WF16X (φ11mm), WF20X (φ11mm)
Eyepiece Head	Trinocular	
Objective	4X, 10X, 25X, 40X	Achromatic: (cover glass thick: 1.2mm 10X / 0.25, 25X / 0.4, 40X / 0.6.) Achromatic Phase-contrast: 10X / 0.25 (Include 10X annular diaphragm plate)
Stage Size (mm)	190 x 145	200 x 140
Travel Area (mm)	75 x 55	30 x 75
Condenser	N.A. 0.1 W.D.17.4mm; N.A. 0.25 W.D.8mm; N.A. 0.4 W.D.5mm; N.A. 0.6 W.D.3mm	Long working distance condenser N.A. 0.4 W.D.30mm
Illumination	110V, 220V / 12V 50W Halogen bulb, Adjustable brightness	6V / 20W Halogen lamp, Adjustable brightness
Focus	Coarse and fine focusing adjustment; Division of fine focusing adjustment: 0.002mm	
Magnification Range	50X~800X	100X~400X
Catalog No.	39510201	39510202



Polarised Microscopes

LPM Series

◆ Technical Specification & Ordering Information :

Model No.	LPM 100 A	LPM 100 B
Eyeiece	5X & 10X with Cross-hair, 10X with Reticule (Division 0.1mm)	
Eyeiece Head	Monocular	
Achromatic Objective	4X / 0.10, 10X / 0.25, 25X / 0.40, 40X / 0.65(S), 63X / 0.85(S)	
Illumination	Without illumination	Illumination: Lamp house (with bulb)
Complementer	Gypsum 1λ, Mica 1/4λ, Quartz wedge	
Micrometer	0.01mm	
Filter	Blue	
Eyeiece Gridmeter with Mount	0.2mm	
Magnification Range	20X ~ 630X	
Catalog No.	39550201	39550202



Stereo Microscopes

LSM Series

● LSM 100 Series

◆ Technical Specification & Ordering Information :

Model No.	LSM 100 A	LSM 100 B	LSM 100 C	LSM 100 D
Eyeiece	10X			
Objective	2X	2-4X		
Working Distance	80mm	57mm	80mm	
Illumination	Incident illumination			
	Transmitted illumination			
Magnification	20X	40X		
Catalog No.	39490401	39490402	39490403	39290404



● LSM 101 Series

◆ Technical Specification & Ordering Information :

Model No.	LSM 101 A	LSM 101 B
Eyeiece	10X (one pair)	
Eyeiece Head	Binocular / Trinocular (inclined at 45°, 360° rotated); Interpupillary distance adjustment range 52mm~76mm	
Objective	Zoom objective magnification 0.7X~4.5X, working distance 18mm	Zoom objective magnification 1.0X~6.5X, working distance 118mm
Focus	100mm (round post is 50mm), the dia. of the center working stage is Φ95mm	
Illuminators	The low illuminator is the transmitted illumination of the fluorescent lamp (5W), the up illuminator is the reflected illumination of the halogen lamp(6V/10W)	
Total Magnification	7X~45X (standard outfits)	10X~65X (standard outfits)
Extend Total Magnification	270X	390X
Catalog No.	39520201	39520202



Video Microscopes

LVM Series

Technical Specification & Ordering Information :



Model No.	LVM 100 A	LVM 100 B	LVM 100 C	LVM 100 D
Eye piece	Double		Single	
Eye piece Head	Trinocular		Dual Observation	
Objective	4X, 10X, 40X,			
	100X (optional)		100X	
Nose piece	Triple; Quadruple (optional)		Quadruple	
Optics & Electron Camera	OV Chip (Built-in)	Built-in CMOS Chip (0.3 Mega Pixels); (Optional: 1.3 / 2.0 / 3.0 Mega Pixels)	12V Sony Chip with Transformation Voltage Device	Sharp Chip (Concentration or with Transformation voltage device)
Cable of Port	Video cable	USB cable	Video cable	
Power Supply Cable	Integration of Machine & Line		Section of Machine & Line	
Camera Attachment	Integration type head		Section type head	
Light Source	LED lamp; Halogen lamp (Optional)		Halogen Lamp	
Prepared Lamp	Without (LED Source); Double (optional)		Double	
	Prepared double insurance tube; double filter; automatic lancing device; protective electrostatic; cedar wood oil with 100X objective			
Catalog No.	39530101	39530102	39530103	39530104

Digital Microscopes

LDM Series

LDM 100

Technical Specification & Ordering Information :



Model No.	LDM 100
Viewing head	Seidentopf type binocular head, inclined at 30°, interpupillary distance:55~75mm
Camera system	High resolution chip, RCA, S-Video, USB 1.0 output, 400,000 Pixel - Built-in CCD camera
Eye piece lens	High point and wide field eyepiece EW10/20
Nose piece	Backward quadruple nosepiece
Objectives	4X, 10X, 40X, 100X
Focus	Coaxial coarse & fine focus adjustment system, range 23mm, fine division 0.002mm
Mechanical stage	Double layers mechanical stage 140 x 140 / 75 x 50mm
Condenser	NA1.25 Abbe condenser with iris diaphragm and filter, rack pinion adjustment
Illumination	Halogen lamp 12V/20W, Adjustable brightness
Image Outputs	USB for PC, RCA & S-Video for TV with PAL or NTSC
Software	DN-2 Micro-image process software, Protector
Catalog No.	39480201

LDM 101

Technical Specification & Ordering Information :



Model No.	LDM 101
Eye piece	WF10X/20mm
Eye piece Head	Trinocular head inclined 30, Interpupillary distance adjustment range 53mm~75mm
Achromatic objectives	4X / 0.1, 10X / 0.25, 40X / 0.65 (S), 100X / 1.25 (S, Oil)
Condenser	Abbe type: N. A. 1.25 with swing-out filter mount
Illumination	Built-in illumination with LED white bulb, long life; 100,000 hours (or 6V / 20W Halogen lamp) Adjustable brightness
Focus	Coaxial coarse / fine gear wheel driving with focus system with tension and limit stopper
Stage	Mechanical Size: 135 x 135mm, Travel Area: 75 x 35mm
Camera	1/3" colour CCD Camera (798 (H) x 548 (V) pixel; Switch able ON/OFF 2X digital zoom)
Monitor	15.1 inches LCD TV (Max resolution: 1024 x 768; Response time: less than 8ms)
Catalog no.	39510301

Digital Microscopes

LDM Series

LDM 102

Technical Specification & Ordering Information :

Model No.	LDM 102
Eyeiece	WF10X with pointer
Achromatic Objectives	4X, 10X, 40X
Illumination	LED illumination, Built-in rechargeable battery & Detachable AC power cord
Total Magnification	40X~400X
Camera	0.35 Mega Digital Eyepiece (Camera) with: USB port connection; Built in 10X lens; "Ulead" Photo Explorer CD-Rom; 30mm adapter suitable for stereo microscopes
Catalog No.	39510302



LDM 103A

Technical Specification & Ordering Information :

Model No.	LDM-103A
Eyeiece & Viewing Angle	WF 10X 45° inclined with pointer (Note that the head of this microscope does not rotate)
Objective	4x (0.10 NA), 10x (0.25 NA), 40x R (0.65NA) and 100x R. Oil (1.25 NA) objectives are DIN achromatic, parcentered, parfocaled
Working Stage	120 x 120mm
Condenser	Adjustable 1.25Abbe condenser, Iris Diaphragm
Illumination	20-watt equivalent extra-cool LED illumination with rheostat light intensity control and super long-life bulb
Power	Rechargeable AA batteries (Separate battery charger powers the illuminator for conventional corded use and can charge the batteries simultaneously)
Field View	4.5mm at 40x and 0.18mm at 100x.
Make	Cast aluminum frame, stands 13" tall
Camera and Software	<ul style="list-style-type: none"> • 1/4 inch CMOS camera • 680x480 pixel image resolution (0.3 megapixels) • Up to 15 frames/second at 640x480 pixels • 24-bit color (16.7 million colors) • 7.5 MB/second data transfer • 5 lux minimum illumination • Automatic white balance and back light compensation • Includes calibration slide • Includes USB cable to connect the camera directly to your PC
Other Details	Standard forward position 4-hole objective turret is ball-bearing mounted for smooth, precise changes in magnification • Separate fine and coarse focusing with a slip clutch to prevent damage to slides or optics • Focus tension adjustment eliminates stage drift • Stage with stage stop & integrated mechanical stage with low-position coaxial x-y controls • Swing-out filter holder with built-in neutral filter for use at low power • Includes operating instructions and a dust cover • A replacement light bulb is available
Catalog No.	39510303



LDM 103 Series

Technical Specification & Ordering Information :

Model No.	LDM 103 B	LDM 103 C	LDM 103 D
Eyeiece	WF10X (1 piece)	WF10X (2 piece)	
Digital Head	CMOS System (0.32 Mega pixel, 24 bit true colour, 320 x 240 / 352 x 288 / 640 x 480)		
Viewing Angle	Inclined at 45	Inclined at 30	
Achromatic Objectives	4X, 10X, 40X(R), 100X(R, O)		
Revolving Nosepiece	Quadruple		
Working Stage	Mechanical Stage: 125 x 115mm; Travel Area: 70 x 30mm		
Condenser	Abbe type N.A. 1.25, Iris Diaphragm		
Focus	Coaxial coarse & Fine focusing range 10mm		
Illumination	Halogen 12V/20W, Adjustable brightness		
Signal Output	USB (frame rate: 20 - 35fps)		
Magnification	180X~6000X on 15" screen		
Effective Field of View	85%		
Software	Microscope Image Analysis: Phenix PHMIAS2003 Ver1.2 English Version		
Catalog No.	39510304	39510305	39510306



Microscopes Attachments

LMA Series

Digital Eye Piece (Camera) - LMA 100 Series



Technical Specification & Ordering Information :

Model No.	LMA 100 A	LMA 100 B	LMA 100 C
Total Pixel (Mega)	1.3	2.0	3.0
Types of Sensor	CMOS		
Size of Sensor	1/2"		
Effective Pixels	1280 × 1024	1600 × 1200	2048 × 1536
Max. Frame Rate	45 (640 × 480)	25 (800 × 600)	20 (1024 × 768)
Plus	Automatic, manual	Manual	
White Balance	Automatic, manual	Manual	
Modal / Shutter (Second)	Software / 1/16~1/1600		
Lens	1/2"		
Image Format / Image Quality	BMP/JPEG / Software adjustable		
Input Interface / Power	USB2.0 / 5V		
Catalog No.	39510401	39510402	39510403

Microscopes Attachments

LMA Series

Digital Camera Eye Piece for Computer - LMA 101 Series



Technical Specification & Ordering Information :

Model No.	LMA 101 A	LMA 101 B	LMA 101 C	LMA 101 D
Image Sensor (M pixels)	0.35 CMOS chip	1.3 CMOS chip	3.0 CMOS chip	5.0 CMOS chip
Max. Pixels	800 x 640	1280 x 1024	2048 x 1536	2592 x 1944
Interface	USB 1.0 / 2.0	USB 2.0		
Exposure	Automatic			
Saved File Format	BMP, JPG			
System Requirement	Windows 2000 / XP			
Software	Scopephoto Senior micro-image analysis software			
Catalog No.	39480301	39480302	39480303	39480304



LMA 102 Series

Technical Specification & Ordering Information :

Model No.	LMA 102 A	LMA 102 B
Sensor / Pixel Size	1/4" CMOS / 5.6µm	
Max Resolution	640 x 480	
Frame Rate	30fps	
SNR / Dynamic Range	>45db / >60db	
Gain & White Balance	Automatic or manual	
Shutter	1/3-1/10000 sec	
Backup	PC	Mac
Image Output	USB 2.0 1.1	
Power Supply	5V(USB)	
Power	<80mA@5v	<100mA@5v
Catalog No.	39510501	39510502

