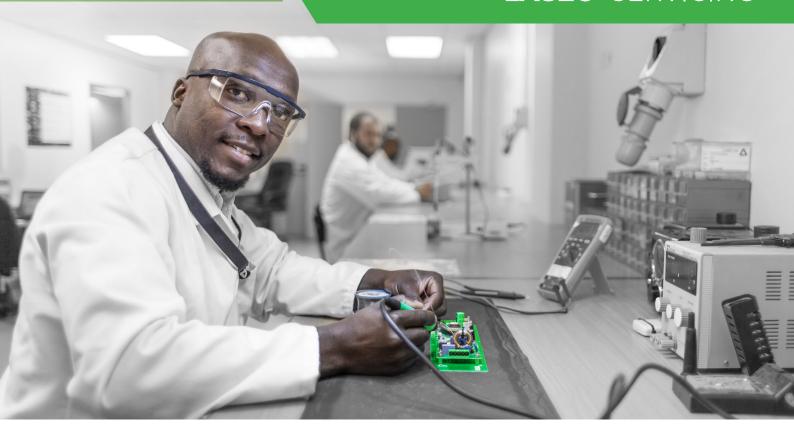


MICROSCOPES AND ACCESSORIES

COMPOUND, STEREO AND SPECIALITY
MICROSCOPES TO SUIT YOUR APPLICATION



LASEC® SERVICING



LASEC® MICROSCOPE SERVICING

Get the absolute best out of your investment. Boasting a large team of skilled engineers throughout Africa, our technical expertise is literally on your doorstep.

A Lasec® annual service plan ensures optimal performance year after year and includes the following:

- Fault checking and dry-cleaning of circuitry
- Cleaning and re-installing of eyepieces
- Checking, cleaning and re-installing objectives
- Check turret rotation and alignment, adjusting as required
- Checking condenser; cleaning lenses and filters
- Checking condenser alignment controls, adjusting as required
- Checking iris diaphragm
- Ensuring that all fitments are secure onto the main
- Compiling a Service Report, noting any necessary recommendations.

EXTEND THE LIFESPAN OF YOUR MICROSCOPE WITH OUR PREVENTATIVE MAINTENANCE PLANS TODAY.

VALUE ADDED SOLUTIONS INCLUDE:

- ISO17025 (SANAS) Accredited calibrations for volume and mass metrology
- Free Good Lab Practice (GLP) audits and comprehensive reports
- Biosafety consulting service facilitated by NSF accredited engineers
- Tailor-made service contracts for your entire
- End-user training on correct usage and maintenance of equipment
- Facilitation of CPD accredited training courses
- Assistance with IQ, OQ and PQ protocol

The product images shown are for illustration purposes only and may not be an exact representation of the product.



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APPLICATION GUIDE

	AREAS OF APPLICATION									
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MICROSCOPE MODELS	Academic / Tertiary	Agriculture	Food and Beverage	Industrial / Production	Medical	Mining	Pharmaceutical	Research	Veterinary	Water & Sanitation
COMPOUND MICROSCOPES						•				
Basic Compound Microscopes BS-2022 / BS-2022T	0		0						0	0
Semi-Advanced Biological Compound Microscopes BS-2036C / BS-2036CT	0	0	0		0		0	0	0	0
Semi-Advanced Medical Compound Microscopes BS-2052B / BS-2052BT	0		0		•			0	•	0
Advanced Research Compound Microscopes BS-2080 / BS-2080T	0	0	•	0	•		•	•	0	•
SPECIALITY MICROSCOPES					,					
Fluorescence Compound Microscope BS-2080F	0				•		0	•		
Inverted Biological Microscope BS-2092	0	0			•			•	0	
Inverted Fluorescence Microscope BS-7020	0	0			•			•	0	
Multi-Head Advanced Teaching Microscopes BS-2080MH4/MH6/MH10	•				0			0		
STEREO MICROSCOPES										
Basic Stereo Zoom Microscopes BS-3020 / BS-3020T	0	0	0	•		0			0	0
Semi-Advanced Stereo Zoom Microscopes BS-3040 / BS-3040T	0	•	•	•		•	•	0	0	0
Advanced Stereo Zoom Microscopes BS-3060B / BS-3060BT	0	•	•	•		•	•	•	0	0
Advanced Stereo Zoom Microscopes with Fine Focus BS-3060C / BS-3060CT	0	•	•	•	•	•	•	•	0	0

Highly Recommended

Suitable

The product images shown are for illustration purposes only and may not be an exact representation of the product.

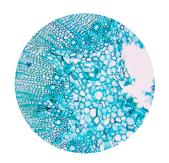
COMPOUND MICROSCOPES

These are used to view extremely small specimens, using high magnification. Light is **transmitted** through the sample.

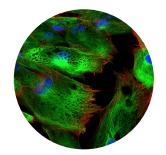
Typically, a compound microscope is used for viewing samples at high magnification (40 - 1000x), which is achieved by the combined effect of two sets of lenses, the ocular lens (in the eyepiece) and the objective lenses (close to the sample).

CONSUMABLES:

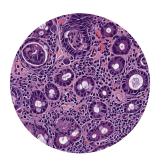
- Slides
- Coverslips
- Immersion oil
- Fixative spray
- Lens cleaning tissue



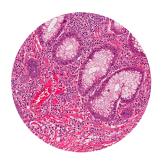
PLANT CELLS



SKIN CELLS



VIRAL INFECTION



SMALL INTESTINE

	AREAS OF APPLICATION											
COMPOUND MICROSCOPES				O _O	(+)			×	8			
Basic Compound Microscopes BS-2022 / BS-2022T	0		0						0	0		
Semi-Advanced Biological Compound Microscopes BS-2036C / BS-2036CT	0	0	0		0		0	0	0	0		
Semi-Advanced Medical Compound Microscopes BS-2052B / BS-2052BT	0		0		•			0	•	0		
Advanced Research Compound Microscopes BS-2080 / BS-2080T	0	0	•	0	•		•		0			





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BASIC STUDENT / UNDERGRADUATE MICROSCOPES

BS-2022 BIOLOGICAL COMPOUND MICROSCOPE

Cost-effective, practical and easy to operate, these microscopes adopt LED illumination, saving energy and extending the working life of the microscope. Widely used in educational, academic, and agricultural fields.

- Including 2022, 2022T, with different viewing heads
- Achromatic Objective 4×, 10×, 40×, 100× (oil) backward quadruple nosepiece
- Abbe NA 1.25 with iris diaphragm and filter
- Illumination: 3W LED illumination, brightness adjustable



SEMI-ADVANCED BIOLOGICAL MICROSCOPE

BS-2036 BIOLOGICAL COMPOUND MICROSCOPE

High level microscopes, specially suited for undergraduate education, medical and laboratory study. Microscopes in this series are characterised by an infinite optical system, combined with an infinite plan achromatic set of objectives.

- Seidentopf binocular (BS-2036C) or trinocular (BS-2036CT) viewing head, inclined at 30°, 360° rotatable, interpupillary 50-75mm
- Eyepiece WF10× achromatic (infinite plan) objective 4×, 10×, 40×, 100× (oil)
- Abbe condenser NA1.25 with iris diaphragm
- Coaxial coarse and fine focusing knobs, travel range: 26mm, Scale: 2um
- Cable winding device



SEMI-ADVANCED MEDICAL MICROSCOPES

BS-2052 BIOLOGICAL COMPOUND MICROSCOPE

Classical biological microscopes with high definition optical systems, providing sharp imagery. The units are fitted with Koehler LED illumination, cable winding device and 50x (oil) objective as standard, making them ideal for medical laboratory applications.

- Seidentopf binocular (BS-2052B) or trinocular (BS-2052BT) viewing head, inclined at 30°, 360° rotatable, interpupillary 47-78mm
- Eyepiece WF10× achromatic or infinite plan objective $4\times$, $10\times$, $40\times$, $50\times$, $100\times$ (oil)
- Abbe condenser NA1.25 with iris diaphragm
- Coaxial coarse and fine focusing knobs, travel range: 26mm, Scale: 2um
- Cable winding device
- Eyepiece pointer and 0.01mm stage micrometer

The product images shown are for illustration purposes only and may not be an exact representation of the product.

COMPOUND MICROSCOPES



ADVANCED RESEARCH BIOLOGICAL MICROSCOPES

BS-2080 BIOLOGICAL COMPOUND MICROSCOPE

A high-level microscope specially designed for advanced laboratory research. The combination of infinite optical system and Koehler LED illumination provides excellent optical quality for research applications.

- Seidentopf binocular (BS-2080B) or trinocular (BS-2080T) head inclined at 30°, interpupillary 48-75mm
- Extra wide field eyepiece EW10×/Ø22
- Infinite plan achromatic objective $4\times$, $10\times$, $40\times$, $100\times$ (oil)
- Aspherical collector with Kohler illumination
- Swing-out condenser NA 0.9 / 0.25



PHASE CONTRAST MICROSCOPES

MICROSCOPE PACKAGE + PHASE CONTRAST KIT

Available for both the BS-2052 and BS-2080 series microscopes as enhancement packages. The package includes the addition of a phase contrast kit that comprises of a turret condenser as well as a set of phase objectives and filters. These microscope packages are ideally suited for phase contrast applications in medical establishments, laboratories, research institutes, academic laboratories, colleges and universities.

- BS-2052B, BS-2052BT (packages) + BPHB-4 turret phase contrast kit
- BS-2080B, BS-2080T (packages) + BPHE-1 turret phase contrast kit
- Infinite plan achromatic phase objectives 4×, 20×, 40×, 100×

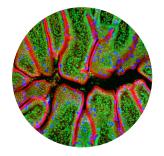
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SPECIALITY MICROSCOPES

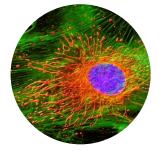
Microscopes designed for specialised applications. These specialised applications include, but are not limited to, enhanced classroom interaction through use of multi-head teaching microscopes, fluorescence analysis and live cell viewing.

CONSUMABLES:

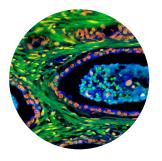
- Slides
- Coverslips
- Immersion oil
- Lens cleaning tissue



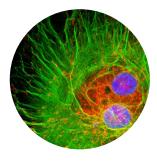
MOUSE INTESTINE



ENDOTHELIAL CELLS



HUMAN PROSTATE



FIBROBLAST CELLS

	AREAS OF APPLICATION										
SPECIALITY MICROSCOPES				O _O	①			X	8		
Fluorescence Compound Microscope BS-2080F	0				•		0	•			
Inverted Biological Microscope BS-2092	0	0			•			•	0		
Inverted Fluorescence Microscope BS-7020	0	0			•			•	0		
Multi-Head Advanced Teaching Microscopes BS-2080MH4/MH6/MH10					0			0			



Highly Recommended



Suitable

The product images shown are for illustration purposes only and may not be an exact representation of the product.



FLUORESCENCE COMPOUND MICROSCOPES

BS-2080F FLUORESCENCE COMPOUND MICROSCOPE

465-476nm excited wavelength with high signal-to-noise ratio (SNR) provides excellent fluorescent imagery, coupled with an infinitive optical system. This technology is widely used in disease examination, immunology diagnosis and life science areas. There is no need for a cooling system or protection device, due to the LED cold light source.

- Excellent fluorescent image with infinite optical system
- Seidentopf trinocular head, inclined at 30°, interpupillary distance 48-75mm
- Wide field eyepiece WF10×/Ø22
- Infinite plan achromatic objective $4\times$, $10\times$, $40\times$, $100\times$ (oil)
- Swing condenser NA 0.9 / 0.25
- Double layers mechanical stage 185×142 / 75×55 mm
- 465-476nm excited wavelength with high SNR

INVERTED BIOLOGICAL MICROSCOPES

BS-2092 INVERTED BIOLOGICAL MICROSCOPE



A high level microscope specially designed for medical and health units, universities, and research institutes to observe cultured live cells. The long working distance (LWD) infinite plan objective makes the viewing field flatter, brighter, and in sharper contrast, to make live cell observation easier. With pre-centerable phase annulus, this specialised microscope allows for observation of low contrast or transparent specimens. Digital single lens reflex (DSLR) and the microscope digital camera can be used together for image and video capture.

- Excellent optical function with infinite optical system
- Seidentopf trinocular viewing head, inclined at 45°, 360° rotatable, interpupillary distance 48-75mm
- Wide field eyepiece WF10×/Ø20
- LWD infinite plan achromatic objective 4× / 0.1, WD 22mm
- LWD infinite plan achromatic phase objective: 10× / 0.25, WD 6mm, 20× / 0.4, WD 3.1mm, 40× / 0.55. WD 2.2mm
- Includes glass insert, terasaki holder, petri dish holder, slide glass holder
- An alternative **fluorescence inverted** microscope (BS-7020) is also available







High level microscope equipped with a multi-head for simultaneous viewing of samples by multiple observers. Its integral stand design translates to small space occupancy. With features including infinite optical system, effective LED illumination, LED pointer and images coherence, it is widely used in clinical and scientific research as well as for teaching demonstrations.

- BS-2080MH4 (2 Head) microscope package
- BS-2080MH6 (3 Head) microscope package
- BS-2080MH10 (5 Head) microscope package
- Seidentopf trinocular head, inclined at 30°, interpupillary 48-75mm
- Extra wide field eyepiece EW10×/Ø20
- Infinite plan achromatic objective 4×, 10×, 40×, 50x (oil), 100×
- Swing-out condenser NA 0.9 / 0.25
- Kohler illumination (LED)
- Green LED pointer

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STEREO MICROSCOPES

Designed to view larger specimens in two and three dimensions. Stereo microscopes provide powerful solutions for viewing, analysis and documentation of large biological samples.

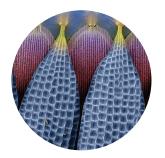
Stereo microscopes are also a valuable tool for quality control in the analysis of rough material surfaces.

CONSUMABLES:

- Petri dishes
- Dissecting kits



BUTTERFLY WING



BUTTERFLY WING



BUTTERFLY WING



MOTH WING

	AREAS OF APPLICATION										
STEREO MICROSCOPES				O _O	(X	8		
Basic Stereo Zoom Microscopes BS-3020 / BS-3020T	0	0	0	•		0			0	0	
Semi-Advanced Stereo Zoom Microscopes BS-3040 / BS-3040T	0		•	•		•	•	0	0	0	
Advanced Stereo Zoom Microscopes BS-3060B / BS-3060BT	0	•	•	•		•	•	•	0	0	
Advanced Stereo Zoom Microscopes with Fine Focus BS-3060C / BS-3060CT	0			•	•	•	•		0	0	



Highly Recommended



Suitable

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BASIC STEREO / DISSECTING MICROSCOPES

BS-3020 STEREO ZOOM MICROSCOPE

Provides upright, un-reversed clear 3D images throughout the zoom range. Optional eyepieces and auxiliary objectives expand the magnification range and working distance possibilities. Optional cold light and ring light sources are available for this microscope as well as a choice of a trinocular head to allow for digital camera attachment.

- Including BS-3020B, BS-3020T
- Binocular or trinocular head, inclined at 45°, diopter adjustable
- Wide field eyepiece 10×/Ø20
- Zoom objective $1 \times -4.5 \times$, zoom ratio 1:4.5
- High resolution, wide viewing field, working distance of 97mm
- LED illumination: reflected and transmitted
- Includes eyepiece micrometer



MID-LEVEL STEREO / DISSECTING MICROSCOPES

BS-3040 STEREO ZOOM MICROSCOPE

Provides un-reversed focused 3D images throughout the zoom range. A wide variety of magnifications, working distances, photo options and accessories, coupled with ease of use, make this microscope a popular choice, ideal for industry assembly lines, inspection and for use in teaching.

- Including BS-3040B, BS-3040T
- Binocular or trinocular viewing head, inclined at 45°
- Extra wide field eyepiece EW10×/Ø22
- Zoom objective 0.8x 5x, zoom ratio 6.3:1
- High resolution, wide viewing field, working distance of 115mm
- LED Illumination: reflected and transmitted
- Includes eyepiece micrometer



RESEARCH-LEVEL STEREO / DISSECTING MICROSCOPE

BS-3060 STEREO ZOOM MICROSCOPE

These stereo microscopes provide the broadest range of magnification, working distances, photo options, and accessories. With an infinity parallel optical system these microscopes are great value for a variety of applications in industrial, medical and scientific research areas. Illumination and excellent life expectancy are a consequence of the use of LED light for both incident and transmitted illumination.

- Infinite parallel zoom optical system
- Including BS-3060B, BS-3060C based on different zoom objective ($0.8 \times 6.4 \times, 0.8 \times 8 \times$)
- Zoom ratio 1:8, 1:10
- Binocular or trinocular head, 20° inclination
- EW10×/Ø22 eyepiece
- Coarse focus and fine focus knob with click stop
- LED illumination: reflected and transmitted
- Includes eyepiece micrometer

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MICROSCOPE CAMERAS

Quality digital cameras facilitate image capture and documentation. The optional LCD screen attachments allow image viewing without an external computer or monitor.





MICROSCOPE CAMERA PACK (BUC2B SERIES) BASIC MICROSCOPE CAMERA (130CP, 320CP, 500CP, 1000CP)

Widely used in the academic and medical fields for high precision and resolution image capturing and processing.

- Digital cameras available in 1.3MP, 3.2MP, 5MP and 10MP
- CMOS Sensor with high resolution
- C-Mount camera includes video adapter (23mm), as well as connecting rings (30mm, 30.5mm), and 1.8m USB cable
- CD including driver, software (free updates), and instruction manual
- 0.01mm calibration slide (stage micrometer) included
- User-friendly software displays real-time live video on your PC screen. Allows for video and image capture
- Features include basic measurement tools, annotations and image editing
- Adapters available to fit other microscope brands



MICROSCOPE CAMERA (BUC4 SERIES) FOR LOW LIGHT AND FLUORESCENCE APPLICATIONS

Widely used for high precision image analysis of low light, bright field, darkfield or fluorescence in life science and industrial applications.

- Digital CCD cameras available in 1.4MP, and 5MP
- Scientific grade colour / mono CCD image sensor provides high sensitivity and low image noise
- 1.4MP peltier cooled camera allows for greater exposure times without increasing image noise
- 5MP provides higher resolution but no cooling.
- C-Mount camera includes video adapter (23mm), and 1.8m USB cable
- CD including driver, software (free updates), and instruction manual
- User-friendly software displays real-time live video on your PC screen. Allows for video and image capture.
- Features include basic measurement tools, annotations and image editing
- Adapters available to fit other microscope brands

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MICROSCOPE CAMERAS



MICROSCOPE CAMERA (BLC SERIES) HIGH DEFINITION LCD DIGITAL CAMERAS

Widely used in medical diagnosis, industrial production and inspection, laboratory research and related microscopy fields for image and video capture as well as analysis.

- Combines a full HD camera and a 11.6" retina HD LCD screen
- Uses BHC3 series Sony CMOS cameras, which are available in 5MP (BLC-450) and 6MP (BLC-600 and BLC-600 Plus)
- Scientific grade digital camera with HD colour reproduction and super-fast frame speed
- Image and video capture can be controlled by a mouse directly to the camera, or via PC using the user friendly software
- C-Mount camera can also be connected directly to an alternative LCD monitor or HD TV via HDMI cable provided. No software needed.
- CD including driver, software (free updates), instruction manual, HDMI cable, USB cable
- 16GB SD card supplied for storage of HD images and videos directly
- Features include basic measurement tools, annotations, image editing and image comparison



MICROSCOPE CAMERA (BHC3 SERIES) HIGH DEFINITION (HDMI) CAMERAS

Suitable for applications requiring HD quality imaging, as well as remote medical diagnosis, industrial inspection, and live cell imaging. Can also be used for teaching and video projection in HD.

- Sony CMOS cameras available in 5MP (BHC3E-1080P) and 6MP (BHC3-1080P and BHC3-1080P PLUS)
- Scientific grade digital camera with HD colour reproduction and super-fast frame speed.
- Image and video capture can be controlled by a mouse directly to the camera, or via PC using the user-friendly software
- C-Mount camera can be connected directly to an LCD monitor or HD TV via HDMI cable provided. No software needed.
- CD including driver, software (free updates), instruction manual, HDMI cable, USB cable
- 16GB SD card supplied for direct storage of HD images and videos
- Features include basic measurement tools, annotations, image editing and image comparison.

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ADDITIONAL MICROSCOPES

Ideally suited for advanced applications in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.



GEMOLOGICAL & METALLURGICAL MICROSCOPES

Available for analysis of precious stones, metals and mineral stone analysis



POLARIZING MICROSCOPES

- BS-5000 Series
- Available for schools and educational facilities



LCD DIGITAL **MICROSCOPES**

- **BLM Series**
- Available for both teaching and research applications



BASIC EDUCATION MICROSCOPES

Available for schools and educational facilities

MICROSCOPE ACCESSORIES

A wide range of accessories are available for all microscopes and cameras, which allows you to customize and enhance your microscope to suit your application:

- Additional eyepieces and objectives
- Calibration slides
- Darkfield attachments
- Simple polarizing attachments
- Phase contrast kits
- Epi-fluorescence attachments
- Eyepiece and slide / stage micrometers
- Transport cases
- Camera adapters to fit Bestscope and other brands
- External light sources with power supplies, including single or dual light guides, and ring light systems
- Various stands, stages, and base plates

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MICROSCOPE CONSUMABLES





MICROSCOPE SLIDES

- Single or twin frosted
- Ground, cut or bevelled edges

IMMERSION OIL

Improve fine resolution and brightness of image through use of high quality, certified immersion oils

FIXATIVE SPRAY

• Preserves histological and cytological tissue samples in a life-like manner

COVERSLIPS

- Chemically resistant borosilicate 3:3
- Colourless and clear
- Suitable for fluorescence microscopy



LENS CLEANING TISSUE

Made from 100% manila fibres

Non-fibrous, lint-free

PETRI DISHES

- Soda-Lime glass
- Plastic



DISSECTING KITS

• High quality kit with zip, PVC pouch

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