

CHEMISTRYWORLD

www.chemistryworld.com



Microscopy

Product guide



BioTek® BioTek Instruments is a global leader in the development, manufacture and sale of microplate instrumentation, including imaging and microscopy, multi-mode detection, liquid handling and automation systems. Our products are used to aid in the advancement of life science research and to facilitate the drug discovery process. Our instrumentation provides rapid and cost-effective analysis to enable sensitive and accurate quantification of a wide range of molecules and cells across diverse applications.

www.biotek.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Imager	Lionheart FX Automated Live Cell Imager	35.8 × 45.5 × 46.5	23.1	High power LEDs	1.25-100×	3D cell imaging, phenotypic assays, translocation, wound migration, kinetic live cell assays (normal & fast), cell culture QC, cell migration and invasion, cell proliferation, calcium flux, apoptosis, cytotoxicity, tumor invasion, cell viability, signal transduction, neurite outgrowth, stem cell differentiation, phagocytosis	Lionheart FX Automated Live Cell Imager with Augmented Microscopy is optimised for live cell applications, with automated image capture, analysis, annotation and video production. This fully integrated digital microscopy system includes fluorescence, brightfield, colour brightfield and phase contrast up to 100× magnification. Temperature, gas and humidity control create an ideal environment for a wide variety of cell-based studies
Imager	Cytation 5 Cell Imaging Multi-Mode Reader	44.5 × 41.91 × 50.8	36.3	High power LEDs	1.25-60×	2D and 3D cell imaging and analysis, cell proliferation, cytotoxicity, biomarker quantification, drug discovery, genetic analysis, drug absorption and metabolism, biologics drug discovery and development, environmental testing, food safety, nucleic acid and protein quantification	Modular Cytation 5 Cell Imaging Multi-Mode Reader combines automated digital microscopy and conventional multi-mode microplate detection for data-rich qualitative and quantitative data. Microscopy includes fluorescence, brightfield, colour brightfield and phase contrast up to 60×, while reading features patented Hybrid Technology; combining filter- and monochromator-based detection for unmatched assay versatility
Imager	Cytation 3 Cell Imaging Multi-Mode Reader	44.5 × 41.91 × 50.8	36.3	High power LEDs	1.25-60×	2D and 3D cell imaging and analysis, cell proliferation, cytotoxicity, biomarker quantification, drug discovery, genetic analysis, drug absorption and metabolism, biologics drug discovery and development, environmental testing, food safety, nucleic acid and protein quantification	Cytation 3 Cell Imaging Multi-Mode Reader combines automated digital fluorescence microscopy and conventional microplate detection in a single, modular and upgradable platform. Quantitative and phenotypic analyses may be completed easily and efficiently across a variety of assays. Cytation 3 is particularly useful for live cell assays where temperature control and available gas control module create an ideal environment for growing, imaging, counting and analyzing cells in microplates, slides, petri dishes and other vessels



Bruker Optics, part of the Bruker Corporation is one of the world's leading manufacturer and worldwide supplier of Fourier transform infrared, near infrared and Raman spectrometers.

Bruker Optics offers complete technical solutions for various markets which cover a broad range of applications in all fields of research and development as well as industrial production processes for the purpose of ensuring quality and process reliability.

Bruker Optics has R&D and manufacturing centres in Ettlingen, Germany, and The Woodlands, US, and technical support centers and sales offices throughout Europe, North and South America, Asia, India, Middle East and Africa.

www.bruker.com/microscopes

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
FTIR microscope	Lumos	64 × 30 × 52	50	Glowbar, infrared light source with long life time (>5 years)	8×, 32×	Identification of particles; analysis of defects and contaminations; surface analysis; fibre identification; determination of the chemical composition of complex samples	Lumos is a fully automated stand-alone FTIR microscope. It combines best performance for visual inspection and infrared spectral analysis of micro samples with highest comfort in use. It is very easy to use due to its high degree of automation and the very intuitive software
FTIR microscope	Hyperion	82/92 × 38 × 60	45	Glowbar, infrared light source	15×, 20×, 36×	Material science; life science; polymer laminates; forensics and art	The FTIR microscope Hyperion provides the highest measuring sensitivity at the highest spatial resolution for demanding research. It is a high-end FTIR microscope for R&D and optionally covers the full spectral range from FIR to UV-vis. The Hyperion 3000 includes FTIR-imaging with modern FPA technology
Raman microscope	Senterra II	84 × 85 × 85	56	High-quality laser sources with excellent beam focus quality for high sensitivity, 532nm (20mW, option 50mW), 785nm (100mW), 633nm (17mW), and 488nm (20mW), up to two internal and one external excitation lasers can be implemented in parallel, optional 1064nm excitation in combination with FT-Raman spectrometer can be added (four laser lines in complete)	10×, 20×, 50×, 100×	Pharmaceutical; polymers; coatings and interfaces; materials science; forensics; art and cultural heritage; life science	The Senterra II defines a new level of spectroscopic performance and user-friendliness in the class of compact Raman microscopes. It is very easy to use and provides Raman imaging combined with high spectral resolution. The Senterra II covers up to four lasers and combines optionally dispersive and FT-Raman spectroscopy

delmic Delmic specialises in research instruments that integrate the detection of photons and electrons. Delmic produces correlative microscopy solutions that cater to a broad range of researchers in fields ranging from nanophotonics to cell biology. Products are fully compatible with all brands of SEMs and are focused on high performance and user friendliness.

www.delmic.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Integrated correlative microscopy platform	Secom	45 × 45 × 50	40	Four-colour LED light source	40-100×	Life sciences	The Secom platform is a fluorescence microscope made to be integrated with a scanning electron microscope. The system enables extremely fast microscopy with the highest optical quality and overlay accuracy

Electron

Product type	Product name	H × W × L (cm)	Weight (kg)	Magnification	Resolution	Applications	Description
Cathodoluminescence detection system	Sparc	35 × 50 × 50	20	Up to 100,000×	40-100×	Materials and optics	The Sparc is a high-performance cathodoluminescence detection system. The system is designed to optimally collect and detect cathodoluminescence emission, enabling fast and sensitive material characterisation at the nanoscale

KEYENCE Keyence is a world leader in advanced microscopes for imaging and measurement applications. Effortlessly capture fully focused images, undertake 3D surface analysis and perform measurements of your samples with a single device. In addition to our world-class products, Keyence offers a full range of services to further assist our customers. Our technically trained direct sales force is able to solve tough applications and answer technical questions about our products. We also provide fast shipping so customers can improve their processes as quickly as possible.

www.keyence.co.uk

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Digital microscope	VHX-5000	47 × 55 × 20	~30	High-brightness LED	Up to 5000×	Observation, image capture, measurement, 3D surface analysis	Next-generation optical microscope with a large depth-of-field and advanced measurement capabilities for inspection and failure analysis
Digital microscope	VHX-900F	47 × 55 × 20	~30	High-brightness LED	Up to 5000×	Observation, image capture, measurement, 3D surface analysis	Next-generation optical microscope with a large depth-of-field and advanced measurement capabilities for inspection and failure analysis.



Leica Microsystems develops and manufactures microscopes and scientific instruments for the analysis of microstructures and nanostructures. Ever since the company started as a family business in the 19th century, its instruments have been widely recognised for their optical precision and innovative technology. It is one of the market leaders in compound and stereo microscopy, digital microscopy, confocal laser scanning microscopy with related imaging systems, electron microscopy sample preparation, and surgical microscopes. Leica Microsystems is represented in over 100 countries, has sales and service organisations in 20 countries, and an international network of distribution partners. Its headquarters are located in Wetzlar, Germany.

www.leica-microsystems.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Compound microscope	Leica DM4 P	44.8 × 33.3 × 56.5	18.5	LED	1.25-3000×	Plastics and polymers, drugs, pharmaceuticals, minerals	The fully coded and semi-automated Leica DM4 P can be used to get perfect orthoscopy and conoscopy images. You can configure the Leica DM4 P with LED illumination either for transmitted light or incident light or with LED for both transmitted light and incident light in one go
Inverted compound microscope	Leica DMI8	44.5 × 28.1 × 64	23.9	LED	0.7-3000×	Metallography, materials research	With the Leica DMI8 you can see more of your sample with the the exclusive macro objective (35.7mm sample overview). Stay flexible with the inverted microscope and take advantage of a large working space to easily place huge and heavy samples
Digital microscope	Leica DVM6	64.7 × 42.5 × 44.2	22.2	LED	2350:1 (according ISO/DIS18221)	Plastics and polymers, materials research	The Leica DVM6 is the perfect solution for every user. It is designed for easy use with one hand objective change, easy tilting function and shows details down to 0.4µm
Stereo microscope	Leica M205 A	54.7 × 37 × 39	27.7	LED	3.9-1280×	All materials for research, QA and QC	The Leica M205 A is a fully automated stereo microscope with 20.5:1 zoom and uses the unique FusionOptics. Choose from a wide range of accessories to customise the system to your specific applications
Surface metrology microscope	Leica DCM8	56.9 × 39 × 57.3	48	LED	1.25-150×	Surface and roughness analysis	The Leica DCM8 unites confocal microscopy with interferometry into one system. Achieve vertical resolution up to 2nm with HD confocal microscopy and for super fine surfaces obtain a resolution of up to 0.1nm with interferometry



MORE THAN MICROSCOPY

Motic was established in 1988 as a hi-tech industrial enterprise specialised in manufacturing conventional compound microscopes. The company has sales offices in Canada, Germany, Hong Kong, Spain and the United States. Moreover, it has four wholly-owned factories across China. During the late 1990s, Motic started to explore and develop affordable digital microscopy solutions. This has proven to be a worthwhile investment turning Motic into one of the leading brands of digital microscopy.

The main goal of Motic remains the same today as it was when it was founded: making sure its users get products with an excellent price/performance ratio.

www.moticeurope.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light Source	Magnification	Applications	Description
Basic upright microscope	BA210E	40.1 × 21 × 39.5	7.2	Halogen or LED interchangeable	1000×	Education	With the introduction of the new BA210 Elite model, Motic again has listened to the educational market and its demands on a basic transmitted light microscope. Designed for ease of use and longevity, the BA210E features robust mechanics combined with improved optical performance for the student level
Advanced upright microscope	BA310E	41.1 × 22 × 40.1	8.6	Halogen or LED interchangeable	1000×	Universities, clinics and laboratories	Motic's new BA310E is a professional transmitted light microscope, designed for intense use in universities, clinics and laboratories. Displaying the advanced quality level of Motic's CCIS Infinity Optics, the new EC-Plan Achromat objectives are basis of a fully corrected intermediate image for professional digital documentation
Research upright microscope	BA410E	44 × 24.2 × 55	14.2	Halogen	1000x	Universities and laboratories (haematology, cytology and histology)	The BA410 Elite is Motic's brand new approach for a professional research microscope with best image quality options. Universities and laboratories with applications in haematology, cytology and histology will look for this flexible microscope platform with a superb performance in optics and mechanics
Routine inverted microscope	AE2000	49.6 × 21.7 × 55.6	12.2	Halogen or LED interchangeable	400×	Clinical and pharmaceutical laboratories, also university teaching	The AE2000 microscopes are Motic's entry models of inverted microscopes, providing a flexible optical concept to meet best image quality and robust design for a long lifetime under rough lab conditions. The AE2000 is the perfect microscope for routine microbiology in clinical and pharmaceutical laboratories, also offering best options for university teaching

Advanced inverted microscope	AE31E	52.9 × 21 × 56.4	11.7	Halogen or LED interchangeable	400×	Clinical and pharmaceutical laboratories, also university research environments	The AE31 Elite is Motic's new statement for a professional inverted microscope providing best image quality, ergonomic design and clever illumination features. The AE31E is the perfect platform for all kinds of routine microbiology applications in clinical and pharmaceutical laboratories with best options for university research environments
Stereo microscope zoom	SMZ171	40.5 × 23.9 × 34.8	5.9	LED	50×	A wide range of biological and material science applications	With the new SMZ-171 Stereo Zoom microscope Motic proudly introduces an optically improved addition to its well-established SMZ Stereo series. New materials for ESD compatibility as well as optimised LED illumination options have been added to this series to create a versatile stereo microscope platform for a wide range of biological and material science applications
Digital slide scanner	MoticEasyScan	39 × 65 × 41	20	LED	400×	Medical environments (cytology, histology and cytopathology)	MoticEasyScan is an efficient scanning instrument for producing and sharing high-quality digital images. Simple and easy, the implemented software allows untrained users a quick and reliable data acquisition: one click starts a complete scanning process. Digitisation of 'classical' glass slide information is an essential approach for more reliable, fast and efficient work in medical environments of cytology, histology and cytopathology

OLYMPUS Olympus is one of the world's leading manufacturers of professional opto-digital products for medicine, science and industry. As a result, Olympus provides a comprehensive range for all market requirements. From microscopes for training and routine tasks to high-end system solutions in the fields of life science, there is a system for every need. The product line is complemented by innovative laboratory equipment for cellular research applications and the new all-in-one microscopes that offer user engagement at all levels.

www.olympus-lifescience.com



1. BX43 upright manual system microscope
2. BX53 upright semi-motorised fluorescence microscope
3. CX23 upright biological microscope
4. CX31P upright polarising microscope
5. ScanR inverted microscope

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Microscope	CX23	38.4 × 19.8 × 25.8	5.9	Built-in transmitted illumination system, LED power consumption 0.5 W (nominal values)	Up to 1000×	Education	Designed for operational ease, the CX23 microscope's unique features accommodates the student and every requirement in the educational setting. This cost-effective system provides easy and safe operation throughout the workflow and ensures outstanding optical performance with large field number of 20
Microscope	CX31P	45.5 × 23.3 × 37.4	8.7	6V 30W halogen lamp, pre-centered, pre-focused, with field diaphragm. Power source incorporated, 100-120V/220-240V 0.85/0.45A 50/60Hz	Up to 1000×	Geology	The CX31P microscope is ideal for polarized light observations. Compact in design, yet capable of technically advanced tasks such as retardation measurements, the CX31P is a wise choice for daily laboratory use
Microscope	BX43	41 × 27.45 × 36.2	13.2	100W Hg APO lamp housing and transformer 100W Hg lamp housing and transformer 75W Xe lamp housing and transformer Fibre-coupled metal halide light sources Fibre-coupled LED light source	Up to 1400×	Clinical	The BX43 microscope offers an outstanding range of features, high optical performance and is the ideal platform for digital imaging. This flexible microscope offers various contrast methods and superior optics combined with true-colour LED illumination for excellent colour rendering. Efficiency is maximised by the ergonomic design, while ease of use is optimised by the light intensity manager, which eliminates manual intensity adjustments for each objective
Microscope	BX53	46.9 × 27.45 × 46.9	21	Fluorescence light source • 130W Hg light guide illumination • 100W Hg apo lamp housing and transformer • 100W Hg lamp housing and transformer • 75W Xe lamp housing and transformer	Up to 1400×	Clinical	The entire optical path of the BX53 is designed for optimal fluorescence imaging, using UIS2 components that set new standards in precision and clarity. High-quality mirror cube coatings provide excellent transmission and steep cut-offs, while almost all stray light is eliminated from interior surfaces for the best sensitivity and colour separation
Microscope	ScanR	68.6 × 32.3 × 47.5	100	MT20-E 150W Xe or Hg-Xe arc burner	Up to 1400×	Research	ScanR is a modular microscope-based imaging platform designed for fully automated image acquisition and data analysis of biological samples. ScanR can handle many different formats, including multi-well plates, slides and custom-built arrays


PHOTOMETRICS
CMOS, EMCCD and CCD Cameras for Life Sciences

Photometrics is the premier designer and manufacturer of high performance CMOS, EMCCD and CCD cameras, and multichannel imaging systems for bio research. Photometrics is the original architect of the world's first scientific-grade EMCCD and the new family of Prime Scientific CMOS cameras. Founded in 1978, the company has supported scientists for over three decades with cutting edge solutions to meet their most demanding imaging requirements. Photometrics also offers OEM support and is headquartered in Tucson, Arizona in the US.

www.photometrics.com

Optical

Product type	Product name	H x W x L (cm)	Weight (kg)	Applications	Description
sCMOS camera	Prime	162 x 108 x 108	1.7	Super-resolution microscopy, confocal microscopy, TIRF microscopy, high speed ratiometric imaging, lightsheet microscopy	Photometrics Prime is the first intelligent scientific CMOS (sCMOS) camera to incorporate a powerful FPGA-based Embedded Signal Processing engine (ESP). ESP enables advanced real-time processing features: PrimeEnhance quantitatively increases the signal to noise ratio by 3-5x, increasing the clarity and quality of images. PrimeLocate dynamically evaluates acquired images and reduces the surplus of data generated during high speed super-resolution imaging. Prime is a versatile life science imaging solution that was designed using the latest sCMOS sensor technology. It is a high resolution camera with great sensitivity, extremely low noise high frame rates and impressive dynamic range. The large field of view maximises the usefulness of the imaging area, making it ideal for microscopy
sCMOS camera	Prime 95B	162 x 108 x 108	1.7	Super-resolution microscopy, confocal microscopy, single molecule fluorescence, lightsheet microscopy	Photometrics Prime is the first intelligent scientific CMOS (sCMOS) camera to incorporate a powerful FPGA-based Embedded Signal Processing engine (ESP). ESP enables advanced real-time processing features: PrimeEnhance quantitatively increases the signal to noise ratio by 3-5x, increasing the clarity and quality of images. PrimeLocate dynamically evaluates acquired images and reduces the surplus of data generated during high speed super-resolution imaging. Prime is a versatile life science imaging solution that was designed using the latest sCMOS sensor technology. It is a high resolution camera with great sensitivity, extremely low noise high frame rates and impressive dynamic range. The large field of view maximises the usefulness of the imaging area, making it ideal for microscopy



QImaging develops CCD, EMCCD and scientific CMOS cameras for imaging in life science research and is an OEM supplier to biomedical instrument manufacturers. These affordable and versatile digital imaging solutions offer outstanding value, ease of use and reliability. Customers use QImaging cameras to perform quantitative image analysis and acquire high-resolution images for publication. The company consistently delivers imaging solutions and application-specific software that support a broad range of bioscience applications. QImaging was founded in 1999, holds ISO 9001:2008 certification and is headquartered in Surrey, British Columbia.

www.qimaging.com

Optical

Product type	Product name	H x W x L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
sCMOS camera	optiMOS	17.8 x 12.5 x 9.8	1.72	NA	NA	Cell biology; ion transport physiology; biophysics	Featuring faster frame rates and lower noise, optiMOS was designed as the budget-friendly alternative that avoids complex data management in the PC. Capable of streaming 100fps with a 45% larger FOV and <2e ⁻ of read noise, optiMOS delivers 10x the time resolution of CCD cameras without trading off on resolution or sensitivity

CCD camera	Retiga R1	9.8 × 7.6 × 7.6	0.72	NA	NA	Applications that require fast, sensitive imaging and documentation; or detection and quantification	The Retiga R1 is packed with advanced technical features that improve limits of detection and quantification. The camera generates large amounts of data, but handles it smoothly via the new super speed USB 3.0 interface. Inside the R1 camera, QImaging introduces Intelligent Quantification – on-camera intelligence features that correct for defective pixels and fast 50 MHz pixel digitisation that increases camera frame rates
CCD camera	Retiga R3	9.8 × 7.6 × 7.6	0.72	NA	NA	Fixed or live cell imaging, time lapse imaging, slide scanning	This 2.8MP CCD camera provides a large field of view for overview images, but is also capable of signal binning for work at high magnification or increased sensitivity. Data is easily managed with its high speed USB 3.0 interface
CCD camera	Retiga R6	9.8 × 7.6 × 7.6	0.72	NA	NA	Time lapse imaging, tile-and-stitch microscopy, stereo microscopy	The Retiga R6 provides a 6.0MP platform that will fit more into your field of view. It has the technical features needed to improve limits of detection and quantification. More importantly, the camera becomes an intuitive extension of your imaging system, smoothly delivering data from the super speed USB3.0 interface to your computer. Its on-camera intelligence features correct for defective pixels, remove accumulated dark current and make high dynamic range imaging available
CCD camera	Retiga LUMO	9.8 × 7.6 × 7.6	0.72	NA	NA	Bioluminescence imaging, routine fluorescence imaging	The Retiga LUMO is packed with advanced technical features that enable detection and quantification of ultra-low light luminescence signals. This is accomplished by coupling deep cooling with FPGA-based intelligent features that correct defective pixels and remove accumulated dark current. The result is a camera that outperforms bioluminescence cameras more than twice the price

Santa Barbara Imaging designs

Santa Barbara Imaging designs, manufactures and sells a standard-line and custom OEM optical microscopes. Each has an integrated LED illuminator with customer choice of wavelength: UV through IR (1.55µm)

www.santabarbaraimaging.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Microscope	uScope	8 × 35 × 9.8	0.6	LED	1×	Semiconductor, material science	Compact industrial microscope
Fluorescence microscope	uScope (Fluorescence)	8 × 3.5 × 9.8	0.6	LED	1×	Bioscience, polymer	Compact fluorescence microscope

SHIMADZU Excellence in Science Shimadzu UK is organised and structured to support our customers fully with their requirements. We have a large, field-based team of sales specialists, and application and technical experts, supported by a fully trained and certified team of service engineers and office-based support staff. All staff are fully employed and contactable in the UK mainland. Customers can have confidence that our organisation is designed to help them fully with their scientific analysis and research through both the profound and lengthy expertise of our staff and also our convenient locations, support infrastructure and professional facilities.

www.shimadzu.co.uk



Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
FTIR microscope	AIM-9000	59.6 × 42 × 49.7	35	Ceramic	330×	Micro, failure, surface and contaminant analysis in food, pharma, electrical, forensic, academic, chemical and machinery sectors	The AIM-9000 is compatible with both Shimadzu's IRAffinity-1S and IRTracer-100 FTIR spectrophotometers. In combination with the IRTracer-100, the AIM-9000 is an extremely powerful platform offering the highest specifications in the market

WITec focus innovations WITec is the leading manufacturer of confocal and scanning-probe microscopes for vital and diverse applications in Raman imaging, atomic force (AFM), and scanning near-field optical microscopy (SNOM). From the company's founding in 1997, WITec has been distinguished by its innovative product portfolio and a microscope design that enables combinations of the various imaging techniques within one system. An example of the company's breakthrough development is the world's first integrated Raman-AFM microscope. To this day, WITec's confocal microscopes are unrivaled in sensitivity, resolution and imaging capabilities. Significant innovation awards document WITec's enduring success and innovative strength.

www.witec.de

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Raman microscope	alpha300 R	70 × 100 × 100	~170	Lasers: UV-VIS-NIR	Up to 100× (resolution ~250nm)	Materials science, nanotechnology, life science, polymers, forensics, geoscience, pharmaceuticals, food technology	3D Raman imaging and ultra-fast Raman imaging for label-free chemical imaging, unprecedented speed, sensitivity, spatial and spectral resolution, correlative microscopy possible: Raman-SEM/AFM/SNOM
Raman microscope	apylon	120 × 100 × 100	~190	Lasers: UV-VIS-NIR	Up to 100× (resolution ~250 nm)	Materials science, nanotechnology, life science, polymers, forensics, geoscience, pharmaceuticals, food technology	Automated & motorised Raman imaging system (3D Raman imaging) featuring TruePower absolute laser power determination for class-leading performance: automatically
Raman microscope	alpha300 access	50 × 100 × 100	~130	Lasers: UV-VIS-NIR	Up to 100× (resolution ~250 nm)	Materials science, nanotechnology, life science, polymers, forensics, geoscience, pharmaceuticals, food technology	High-quality confocal-micro Raman spectroscopy; single-spot and Raman mapping with exceptional spectral sensitivity; specifically engineered for budget-conscious customers requiring superior performance; access to the future of Raman spectroscopy through upgradeability

Near-field microscope	alpha300 S	70 × 100 × 100	~170	Lasers: UV-VIS-NIR	Sub-diffraction-limit optical resolution: 60-90nm	Materials science, nanotechnology, life science, polymers, nano-photonics	Combines confocal, SNOM and AFM in one single instrument; Confocal mode ideally suited for low light intensity levels; flexible design to fulfill various excitation and detection requirements; transmission, reflection, fluorescence, Raman, PL
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Electron

Product type	Product name	H × W × L (cm)	Weight (kg)	Magnification	Resolution	Applications	Description
Raman-SEM	RISE Microscopy	180 × 100 × 300	ca. 1000	Up to 100× in optical/Raman mode	Raman: <360nm in x-y-direction (lateral); <750nm in z-direction (depth); SEM: down to about 1nm laterally	Materials science, nanotechnology, life science, polymers, forensics, geoscience, pharmaceuticals, food technology	Correlative Raman-SEM imaging integrated in one system. Quick and convenient switching between Raman and SEM measurement, Correlation of the measurement results and image overlay

WOODLEY EQUIPMENT COMPANY LTD. Woodley Equipment provides diagnostic laboratory equipment for human and veterinary markets. Woodley Laboratory Diagnostics acts as master distributor across EMEA regions for QBC dry haematology analysers, QBC fluorescence microscopy solutions, Arkray POC, Vision Microscopes and Clinispin centrifuges.

www.woodleyequipment.com

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light source	Magnification	Applications	Description
Binocular compound light microscope	Vision V-5000	37 × 23.5 × 29	6.5	LED	40-1000×	Any application requiring brightfield microscopy	The Vision V5000 binocular microscope has an innovative LED-powered illumination system that results in a white light instead of the yellow light produced by filament lamps. It is robust and has been developed for heavy use: it consists of high quality components which assure a high image contrast and excellent optical resolution. With a modern and ergonomic design, it is easy to handle and to transport
Trinocular compound light microscope	Vision V-5000T	45 × 23.5 × 29	6.7	LED	40-1000×	Any application requiring brightfield microscopy. Trinocular port available for the attachment of a microscope camera	The Vision V5000T trinocular microscope has an innovative LED powered illumination system that results in a white light instead of the yellow light produced by filament lamps with a trinocular port for the attachment of a microscope camera. It is robust and has been developed for heavy use: it consists of high quality components which assure a high image contrast and excellent optical resolution. With a modern and ergonomic design, it is easy to handle and to transport



Zeiss is a leading manufacturer of microscopes offering a broad spectrum of light, confocal, electron, ion beam and x-ray microscopes across a full range of applications and length scales. As sole provider of this complete range of techniques, Zeiss can offer unique correlative microscopy solutions that enable new insights into the micro and nano worlds, backed up by highly skilled and well-trained application specialists to support your work and ensure you get the most out of your investment.

www.zeiss.co.uk/microscopy

Optical

Product type	Product name	H × W × L (cm)	Weight (kg)	Light Source	Magnification	Applications	Description
Digital microscope	Smartzoom	58 × 35 × 51	22	LED	1011×	Failure analysis, quality control, routine imaging	Automated digital microscope for routine and failure analysis
Stereo microscope	Stemi	44 × 22 × 37	5	Various	250×	Inspection, FA, forensics, biology	Robust microscope for everyday lab work
Confocal microscope	LSM 800	75 × 90 × 90	100	Laser, halogen, HXP, LED	Resolution 0.120µm	Materials analysis and 3D surface topography	Confocal microscope for research and failure analysis
X-ray microscope	Versa	209 × 119 × 217	2468	X-ray	Resolution 0.7µm	Materials science, electronics, life science, geology	X-ray (µ-CT) microscope for 3D imaging

Electron

Product type	Product name	H × W × L (cm)	Weight (kg)	Magnification	Resolution	Applications	Description
Scanning electron microscope	EVO	178 × 102 × 78	600	1,000,000×	2nm	Materials analysis, FA, electronics, life science	Flexible imaging and analytical tool
Scanning electron microscope	Sigma	164 × 102 × 78	636	1,000,000×	0.8nm	Materials imaging and analysis, research, failure analysis	High resolution imaging and analytical tool
Scanning electron microscope	GeminiSEM	174 × 108 × 82	890	2,000,000×	0.6nm	Materials imaging and analysis, research, life science	Ultra-high resolution imaging and analytical research tool
Focused ion beam/SEM	Crossbeam	175 × 108 × 82	1250	1,000,000×	0.9nm	Tomography, material processing and sample preparation	FIB-SEM for high throughput nanotomography and nanofabrication
Ion beam microscope	ORION NanoFab	210 × 130 × 160	2000	1,000,000×	0.5nm	High resolution imaging and nanomachining	Helium, neon and gallium ion beam microscope



Unveiling the cause of failures

AIM-9000 Infrared Microscope System: quick and easy micro analysis

The AIM-9000 Infrared Microscope for automatic failure analysis delivers a unique concept for micro sample analysis – applicable for various industries. Its functionality is simpler and more convenient to use than ever before. A wide range of accessories complements the instrument to fully support sample observation, measurement and identification.

Highest sensitivity marketwide
with a signal-to-noise ratio of a staggering 30.000/1

Automatic zoom-in from eye-size to contaminant-size
through wide field camera feature

Automatic contaminant recognition function
sets aperture on measurement spots automatically

Automatic identification of the spectrum
through contaminant analysis program



IRTracer-100 + AIM-9000



IRAffinity-1S + AIM-9000