

INDUSTRY

SELECTED PRODUCTS FOR YOUR LABORATORY



BA310MET SERIES

BASIC METALLURGICAL MICROSCOPES



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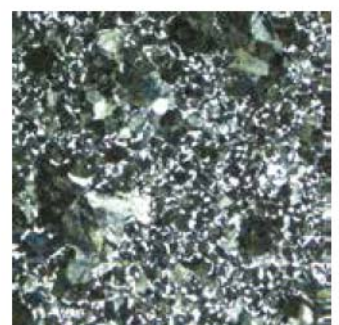
UPRIGHT METALLURGICAL MICROSCOPES

The BA310-MET series of Upright metallurgical microscopes is dedicated to flat, opaque samples in all material professions. Industrial quality control, failure analysis in automotive industries, but also teaching environments in technical schools – the BA310-MET microscope series satisfies all requirements for a robust, powerful material microscope.

All models come with a bright 50W Incident light Halogen illumination. Exchangeability with an LED light source is given. Stands with Transmitted light option extend the application range to compound or purely transparent specimen. The BA310-MET-H model is especially designed for the treatment of more bulky samples.

High performance LWD objectives from Motic's CCIS® Infinity Optics deliver clear and highly resolved images. Extra resolution power is given by optional EC-M Plan objectives.

An excellent mechanical performance guarantees a long lifetime of all models even under rough conditions of a modern QC lab.



BA310POL SERIES

ADVANCED POLARIZATION MICROSCOPE



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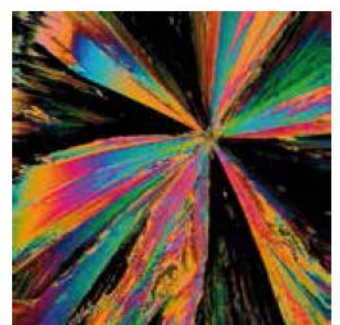
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UPRIGHT POLARIZATION MICROSCOPE

The BA310-POL microscope is a high-class instrument, designed for applications in geosciences and industry. Transparent samples of polymers, fibers, textiles or glass materials, but also any birefringent sample from natural sciences can be treated for structure analysis.

A strain-free setup of all optical components delivers a high contrast with crisp and clear images. Individually centrable EC-Plan Achromatic objectives, together with a smooth movement of rotating stage, guarantee precise positioning of the sample, thus ensuring reproducible imaging results.

A set of compensators is ready for semi-quantitative investigations. The intermediate Bertrand module carries the focusable and centrable Bertrand lens, a 360° rotatable analyser and the compensator slot, necessary for the conoscopic investigations of crystals and minerals.



AE2000MET SERIES

INVERTED METALLURGICAL MICROSCOPE



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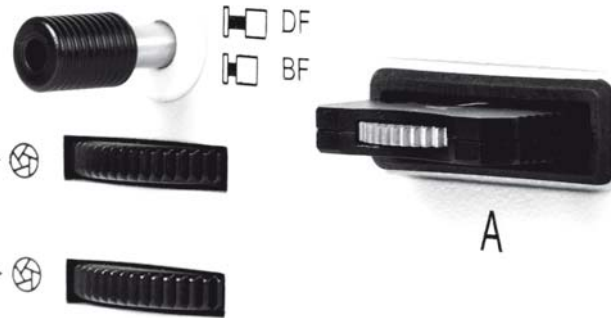
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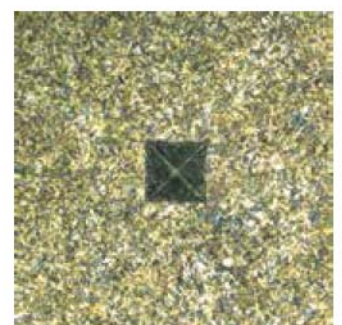


INVERTED METALLURGICAL MICROSCOPE

The AE2000-MET Inverted metallurgical microscope is especially designed for large, opaque samples in industrial inspection. Heavy specimen from automotive industry can perfectly be treated, as focusing of the sample is done by the 5-fold nosepiece. The smooth movement of the 3-plate stage allows a precise positioning.

Highlight of this microscope system is a complete series of LM Plan Achromatic BF/DF objectives. This set delivers excellent images with high contrast and resolution in Bright field as well as in Dark field use. All BF objectives from BA310-MET series can also be used without restrictions in optical performance.

The powerful 50W Halogen light source gives plenty of resources for light consuming methods like Dark field and POL contrast. An implemented "AUTO-OFF" mode turns off the illumination after 15 minutes. An exemplary manufacturing quality guarantees a long lifetime of the instrument even under rough conditions of an industrial manufacturing process.



VIS100 & VIS200 SERIES

VIDEO INSPECTION SYSTEMS



VIDEO INSPECTION SYSTEMS FOR INDUSTRY

The VIS systems are compact setups for all video inspection purposes in industrial labs. A simple quality check as well as an integration into a wafer probe station: all control tasks can be performed fast and convenient by pure monitor visualization.

The standard basis of a VIS setup are objectives from the PSM-1000 range: Infinity corrected Plan Apochromatic lenses with unique working distances and outstanding image quality. A high transmittance from Near UV to Near IR wavelength range allows an implementation into probe stations. For more affordable solutions, LM Plan Achromatic lenses from the BA310-MET series can be applied.

Starting with a single-objective setup, VIS systems with a motorized quadruple nosepiece for remote magnification change are available. External light sources as well as an integrated coaxial LED illumination for an individually tailored solution help to integrate quality inspection into the industrial workflow.



PSM1000 SERIES

INCIDENT LIGHT MICROSCOPE



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INCIDENT LIGHT MICROSCOPE FOR STUNNING IMAGE QUALITY

The PSM-1000 microscope is an OEM-ready instrument for best possible imaging results of flat, reflective specimen. Metallurgical samples as well as semiconductors can be treated with Plan Apochromatic LWD objectives of stupendous resolution power. A large Field of View with an erect, true sided image allows fast orientation and manipulation work.

Single centration of each objective position perfectly keeps the details of the viewing field. Optional objectives with parfocality adjustment capability additionally optimize ease of use when changing magnification.

The high transmittance of the objectives and tube lens turret from NUV (355nm) to NIR (1064nm) facilitates the implementation of the PSM-1000 into laser probe stations. The smooth focus drive allows finest focusing even under high magnifications.

