

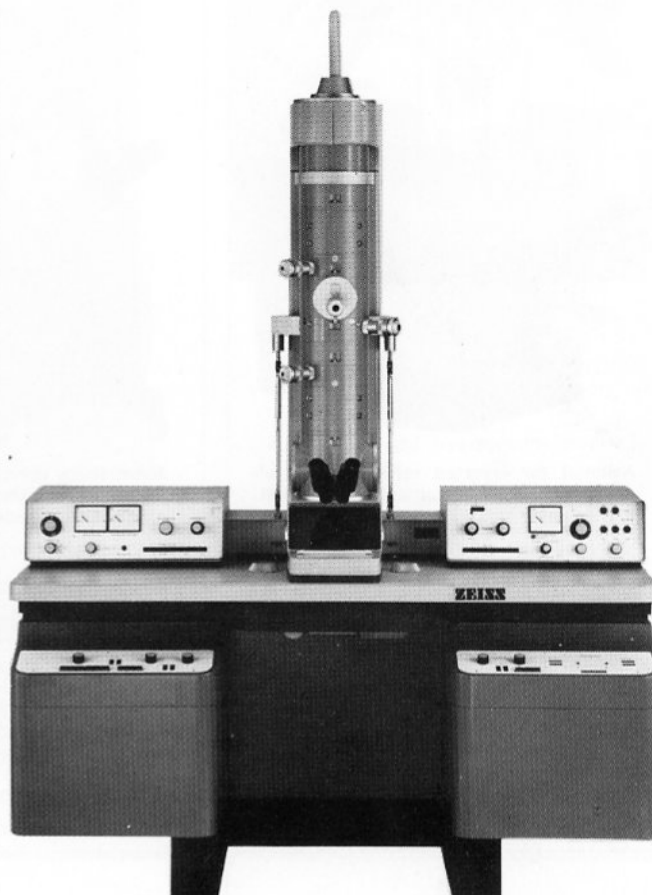
# ZEISS where the future is now— in electron and optical microscopes...



## EM 9 S-2 Electron Microscope

7Å p.t.p.

Fully automatic camera system includes identification of negatives. Extremely simple to operate. Small size. Big performance. Low price. Zoom or fixed-step magnifications from 30x to 60,000x — distortion-free with direct read-out. Focusing aid. Multiple (21 openings) thin-metal film aperture. Specimen exchange through foolproof airlock in 8 secs; stereo tilt.



## EM 10 High-Resolution Electron Microscope

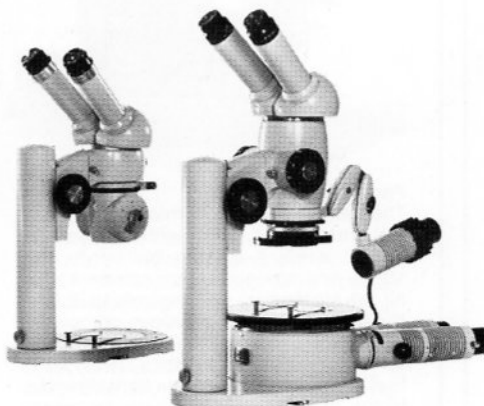
3.5Å p.t.p.

Solid-state circuitry. Easy, foolproof operation. Focusing aid for entire range of 100x-200,000x. High-resolution goniometer, multiple specimen holder, cartridges for cooling, heating, tensile testing. Fully automatic 3¼x4", 70 mm, and 35mm camera systems. Unique 5-character automatic data imprint. Energy-dispersive X-ray accessory. Full X-ray protection.



## Particle Size Analyzer TGZ 3A for Automatic Data Analysis

Measures and counts particles directly from electron micrograph or photomicrograph. Of great value in air pollution studies. Provision for on-line or off-line computer analysis. Shown here is the automatic model.



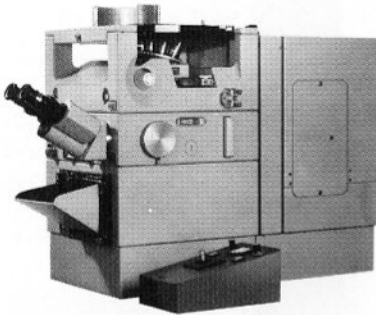
## Stereomicroscope I

On the left is the Stereo I, a true high-resolution instrument with quick magnification changer in 3 parfocal steps. Perfectly flat image from edge to edge. Wide-field eyepieces.

## Zoom Stereomicroscope IVB

The versatile Stereo IVB on the right has a zoom range of 1:6 and offers almost unlimited options: for polarized light, transmitted or reflected illumination, many different specimen stages, attachments for photography in all formats, for drawing and dual observation. A variety of stands available.

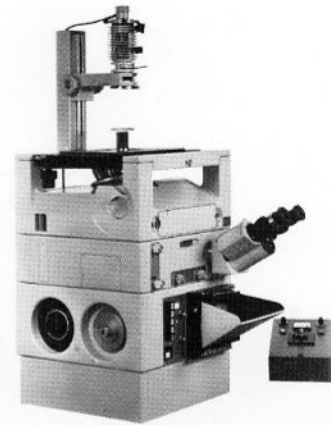
# ...from the revolutionary new Axiomat, the modular microscope of the 21st century...



**Axiomat for inverted reflected-light microscopy** — the finest, most stable metallograph ever made



**Axiomat for upright transmitted (and reflected) light microscopy** — Ideal for biology and medicine.



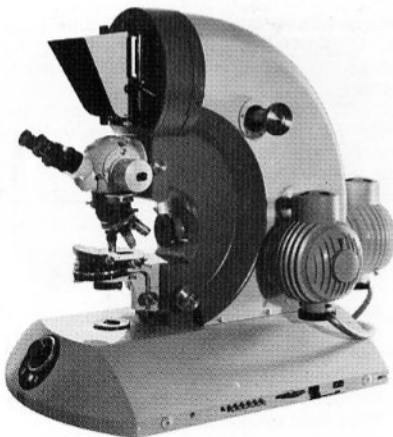
**Axiomat for inverted transmitted-light microscopy**. The only such instrument that permits all types of quantitative microscopy and, simultaneously, fully automatic photography.

## Axiomats—for every purpose

A revolution in microscope design that puts the optical axis where it belongs — along the axis of symmetry. This results in ultimate stability for the most critical requirements in photomicrography and quantitative techniques, such as scanning microspectrophotometry and microinterferometry. The building-block concept permits the combination of modules for any application without any compromise and for all known microscope methods. Newly computed optics cover extremely wide fields with unparalleled resolution — to the limits of light microscopy. In addition, Axiomats

incorporate all features for optimum image display and documentation: 4:1 zoom projection between two real intermediate images of superb image quality, completely parfocal to all image planes, which greatly simplifies measurement and calibration, visual aids, reference reticules, micrometers, pointers, etc.; dual observation; two built-in, fully automatic camera systems, 35mm and 4x5", in one module.

Shown here are just three of the many configurations that can be assembled from the 12 basic modules.



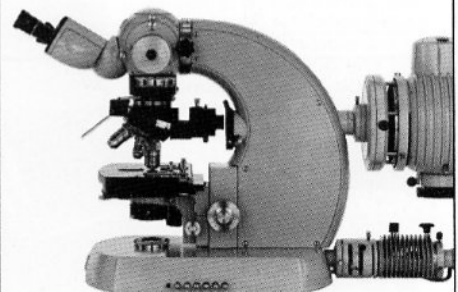
## Ultraphot IIIB

A complete photomicrographic and photomacrographic laboratory. For all microscope techniques in transmitted and reflected light. Continuous magnification from 2.5x on the unique and convenient automatic 4x5" camera system with correct exposure reading from the center of the image field. (Accepts other film formats as well.) 3 lamp housings can be simultaneously mounted; the flip of a lever selects the illumination source and mode.



## Photomicroscope III

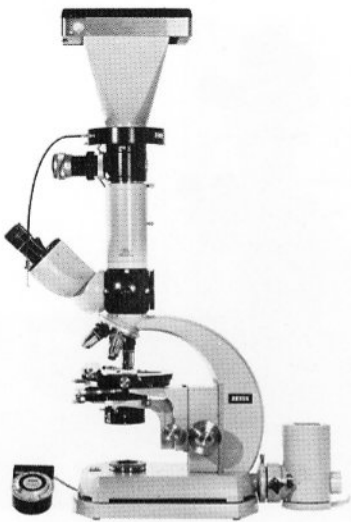
The famous research microscope with fully integrated, completely automatic 35mm camera system built into the stand. And now even more compact with all the electronics and controls built into the base. Also new—a unique computer-flash for living material, and a highly sensitive automatic exposure system that works with 98% of the light directed to the film. Accepts auxiliary documentation and observation equipment, such as the Glarex Projection Screen (shown).



## Universal Microscope

(Shown with III RS illuminator and fluorescence attachments). Recognized as *the most universal microscope*. Accepts all accessories and all camera formats, including TV. Fully interchangeable optics and components for transmitted and reflected light, bright-field and dark-field, Nomarski interference contrast, phase contrast, polarization, fluorescence, Epi-fluorescence, and U. V.

# ...to the famous Standard for routine laboratory use, the great name is ZEISS...



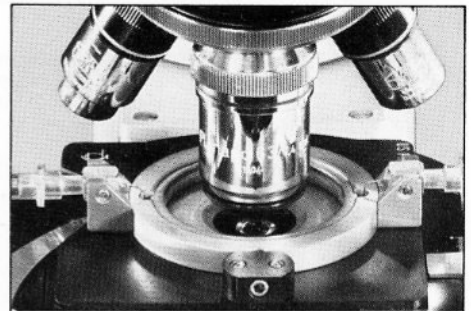
## WL Research Microscope

(Shown with Photochanger beam-splitting attachment). Features include all those of the Standard Microscope (see next panel), plus an independent fine-focus for critical work, interchangeable stages and condenser holders for the researcher with frequent need to change modes. Accepts all camera formats and all light sources.



## Standard Routine and Research Microscope

Great versatility and Zeiss quality at low price. Features include: integral low-voltage illuminator; centerable condenser carrier; permanent or interchangeable nosepiece; selection of stages; combined coarse-fine focusing drive. Accessories for all microscope techniques, including fluorescence and Nomarski. Same wide line of photographic attachments as for the WL.



## Major Accessories

1. Dvorak-Stotler Controlled-Environment Culture Chamber. (Shown above).
2. Incident-light fluorescence illuminators.
3. Dual observation tubes and comparison bridges.
4. Motorized screening stages for continuous, or scanning stages for step-by-step, scanning.
5. Light sources for all applications.
6. Camera attachments for all formats.
7. TV attachments.



## Micro-Projection Systems

On the left, the Revolver Microprojector, a compact and self-contained system for macro and microprojection in the auditorium. Permanently mounted Luminar objectives for low-power projection; Planapochromats; oil-immersion objectives. Choice of four projectives for various projection distances.

On the right, the Glarex high-resolution projection screen for conference viewing, eye-saving screening, and routine inspection. The unique constantly-rotating screen eliminates glare and grain you're used to seeing on ground glass.



## AC-Stand and Tessovar

The sturdy, rigid and versatile AC-Stand for all microscopes adds extra stability in photomicrography, microcinematography, or TV-microscopy—whenever heavy documentation attachments are used. Shown here is the Tessovar, a unique instrument for photomacrography. Zoom optics from 0.4x to 12.8x at 4 fixed working distances. Camera backs for all film formats.



## Invertoscope D

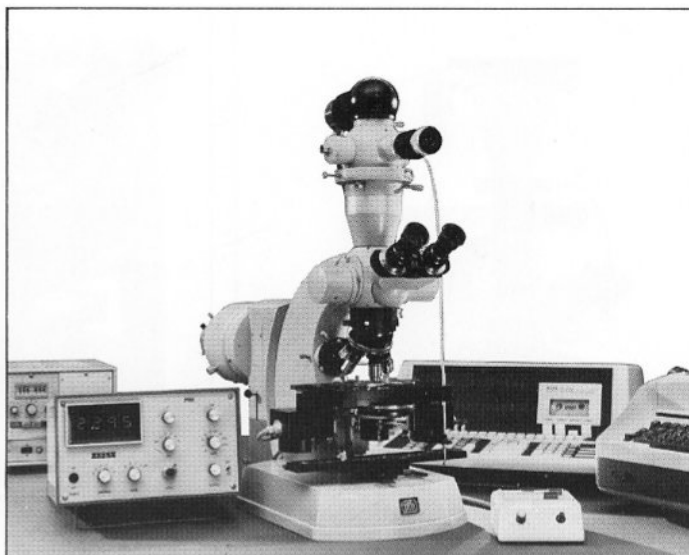
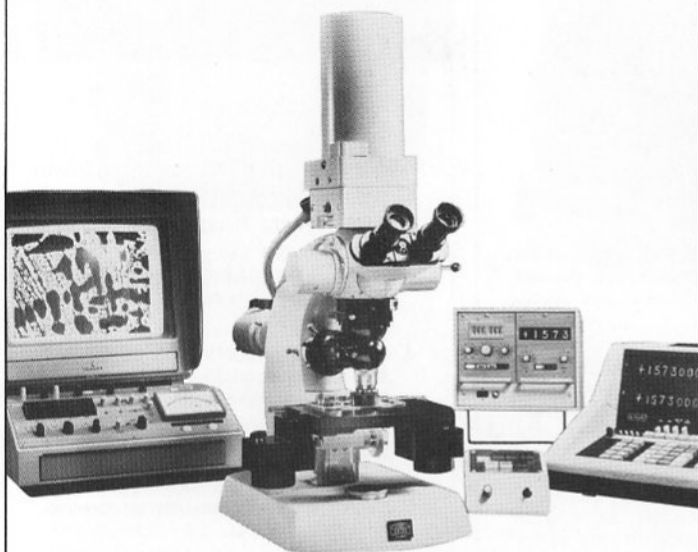
Compact and sturdy tissue culture microscope. Convenient control of all functions. Special LD condenser and many special objectives to compensate for optical deficiencies of flasks and petri-dishes. Permits use of optical staining techniques such as phase contrast and differential interference contrast. Extra-wide field of view. 35mm and Polaroid camera attachments. Accepts all microscope stages.



# ...and for the highest precision in your optical-analytical determinations.

## Micro-Videomat

Works with all Zeiss Research Microscopes for image analysis. Rapid determination of geometric magnitudes and intensities or densities. Area, shape, size distribution, particle count, volume and weights can be determined in seconds. Manual or computer-controlled operation. Automatic Scanning Stage for systematic analysis. Extensive software for life and material sciences. Also available for macro determinations.



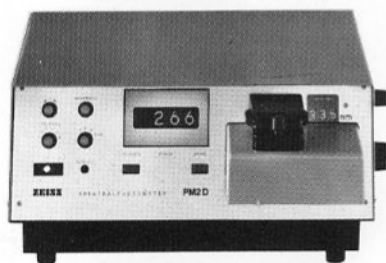
## Microscope Photometers 01 and 05

(Shown here is the 01 model)

The most versatile and accurate systems for quantitative microscopy. Work with all Zeiss Research Microscopes. Digital display of absorbance, transmittance, reflectance and fluorescence values. Zero-suppression, scale expansion, outputs for analog and digital documentation and for computers. Variable measuring and field apertures.

Can also be equipped with automatic scanning stages with step size as small as  $0.5 \mu$ . Extensive software for automatic scanning, data acquisition and evaluation free of charge with a scanning system.

## PM 2 Spectrophotometer

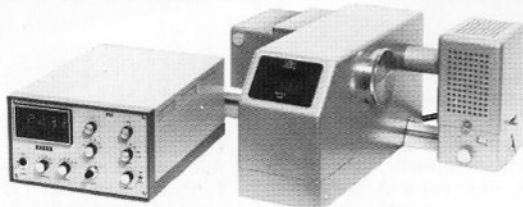


Low-priced precision-grating instrument particularly suitable for clinical use. Spectral range 200-850 nm, automatic blank reference. Excellent stability, unique sampling arrangement. Outputs for recorder and printer. Also available as U. V. and visible monitor for LiquidChromatography.

## PM 6 Spectrophotometers



A line of compact high-performance instruments consisting of several models, each tailored to specific applications. Features high-efficiency Double-Grating Monochromator, spectral range 200-800 nm. A minimum of controls for ease of operation. Unique sampling arrangements, automatic blank reference, excellent stability. Available in manual, semi-automatic and fully automatic versions, with documentation to suit every need, such as kinetics.



## Spectrophotometer PMQ 3

Modular Spectrophotometer with highest-efficiency prism monochromator. Spectral range 185-2500 nm. Numerous accessories, including reflectance attachments, automatic sample changer, automatic blank reference, gel scanner, TLC scanner. 4-digit display, 0-3 O.D., analog and BCD output, zero-suppression and scale expansion.

The indicator unit is also available separately to up-date all existing PMQ II Spectrophotometers.

# ZEISS

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