



WILD
HEERBRUGG



Microscopes, Macroscopes and
Microtomes for medical and life sciences



WILD
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Introduction

Welcome to the world of
excellence in biomedical
instrumentation.

This brief survey of Leitz and
Wild instruments is just a
selection from our extensive
range of microscopes,
macroscopes, photometric
systems, microtomes and
associated quality products.
All our instruments are
precision engineered to the
highest standards of
mechanical, optical and
electronic excellence and
reliability.

Leitz, of Wetzlar, West
Germany, and Wild, of
Heerbrugg, Switzerland, are
associated worldwide in
research, manufacture,
marketing and service to
guarantee the optimum
performance from our
products. Together we have
blended over a century's
experience and highly
specialised knowledge with
advanced technology, to
maintain our reputation as
world leaders.

For your convenience, each
product has a reader reply
number. If you would like
further information on any
product or field of application
just complete and post the
reply-paid card.

Stereomicroscopes

Wild M3B/M3C/M3Z

This new series has an excellent price/performance ratio.

The WILD M3B Stereomicroscope has a three-step magnification changer (total magnification, 6.4x, 16x and 40x, if 10x eyepieces and a standard 1.0x objective are used).

The WILD M3C Stereomicroscope is identical, except that it has a five-step magnification changer (6.4x, 10x, 16x, 25x and 40x).

The WILD M3Z zoom Stereomicroscope has a 1:6 zoom magnification change from 6.5x to 40x. Click stops can be introduced at the standard magnifications for reproducible measurements.

Special features:

- All three models are of high optical quality and can be used with the full range of ancillary equipment and accessories.
- Each model is suitable for either stereoscopic or vertical beam observation – a unique feature. Axial imaging is ideal for high quality photomicrography, parallax-free measurements, and the production of correct colours in polarisation work.
- Comfortable and fatigue-free operating position.
- Modular design – even the most basic components of the M3 series are constructed as modular units.

Wild M5A/M5APO

These top class, high-resolution stereomicroscopes are used worldwide for three-dimensional observation in laboratories, industry, education and many other fields. The M5A has a four-step magnification changer. The M5APO model features an apochromat objective which totally corrects residual chromatic aberration, resulting in exceptional image quality.

Special features:

- Optimal image quality and large field of view.
- Advanced optics give faithful colour rendition and highest contrast.
- Modular accessories for incident and transmitted light, bright and darkfield.
- Fully adaptable for photomicrography and TV microscopy.

Wild M7A/M7S

These high quality zoom stereomicroscopes are comfortable to use and can be modified extensively by adding accessories from the full Wild range. The M7A has a stepless 1:5 magnification changer, the M7S gives a choice of stereoscopic or vertical observation.

Special features:

- Vertical observation eliminates parallax, ensures precise polarization colours, improves optical correction for photomicrography.
- Fully-rotatable unit can be locked in any position.
- Widefield eyepieces for spectacle wearers.

Wild M8

A high-grade, all-purpose zoom stereomicroscope. With its wide 1:8 zoom range, this optically excellent instrument combines versatility, convenience and adaptability to reinforce its position as a first rate instrument for research, routine examinations and production control.

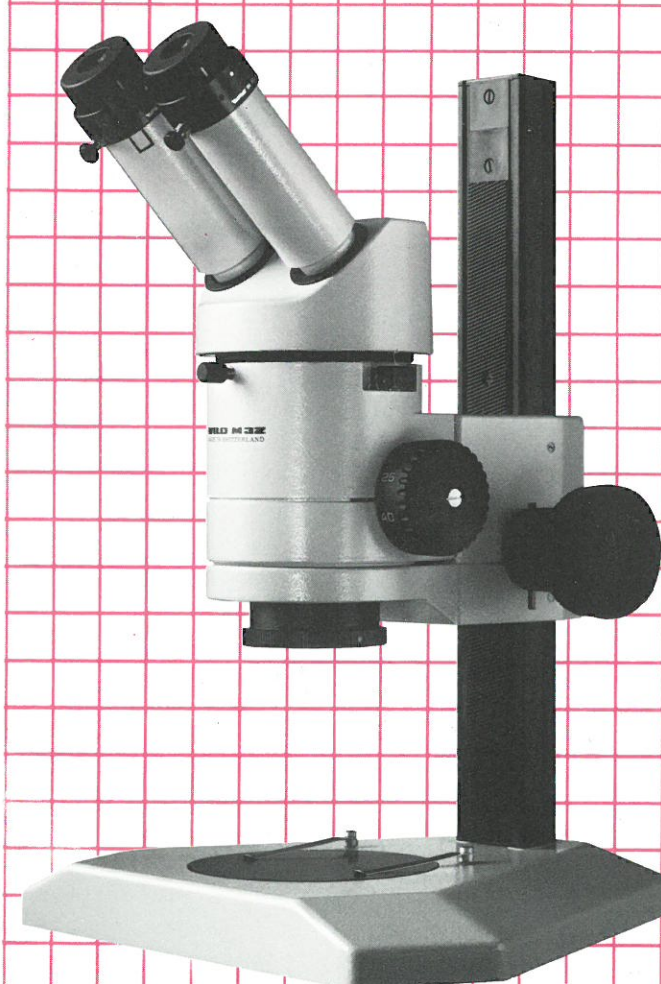
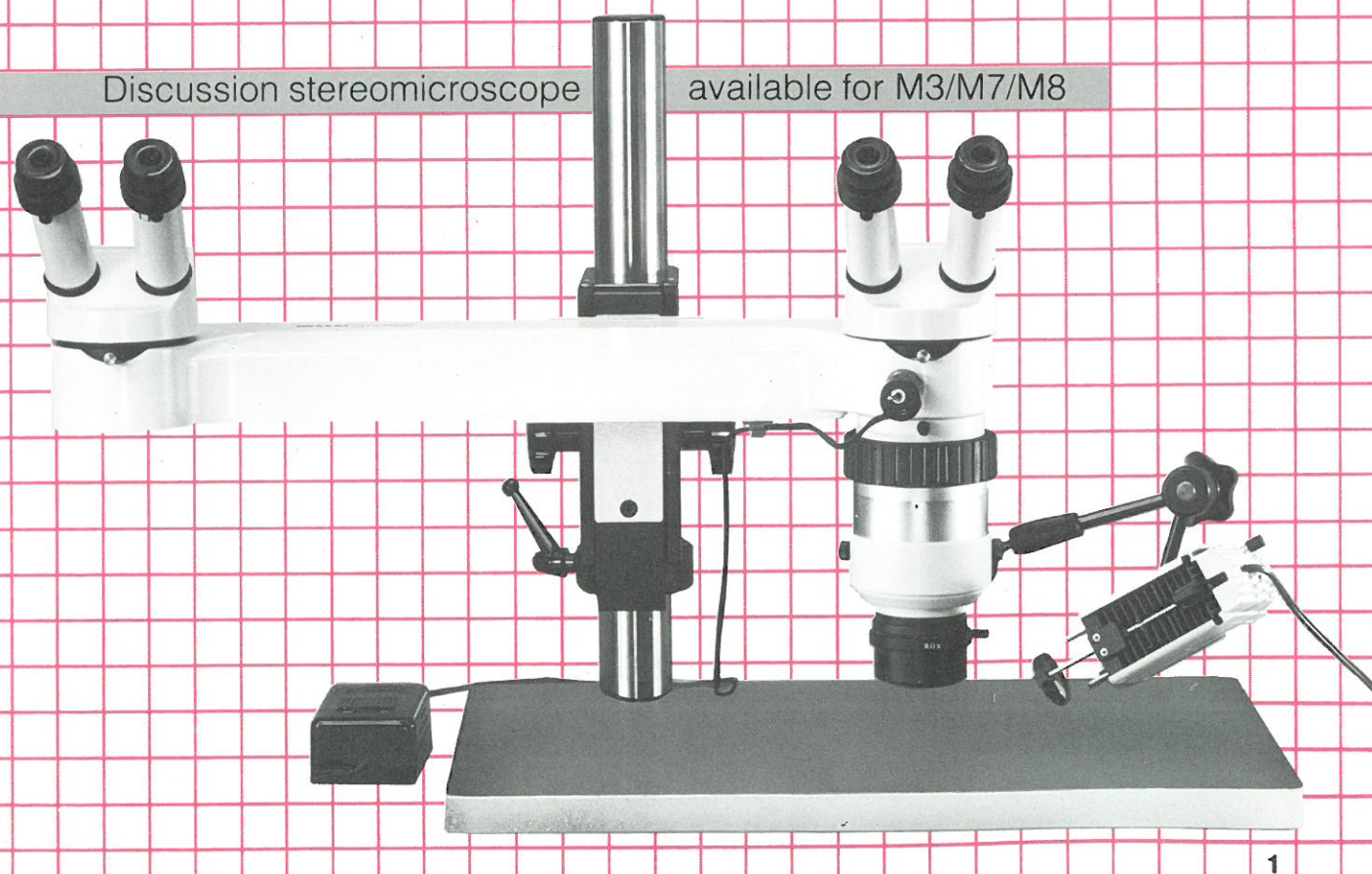
Special features:

- Adjustable widefield eyepieces for precise dioptric adjustment.
- New straight or low-inclined binocular tubes for comfortable, fatigue-free operation.
- Excellent image quality and large field of view, particularly effective for photomicrography.
- Wide range of accessories of modular design.
- Well protected and readily transportable.

- Fibre optic attachments available. Volpi fibre optic ring illuminators used in conjunction with Intralux 5000 or 6000 cold light sources provide the quality of lighting that is invaluable for fatigue-free work on the microscope. Intense but controllable flicker-free white light is provided by the Intralux halogen cold light sources and the ring illuminators produce ideal, even lighting conditions in the object plane. The illuminator can either be fixed directly to the objective or by means of adaptors which allow it to be slid up or down to produce lighting appropriate to each specimen.

Discussion stereomicroscope

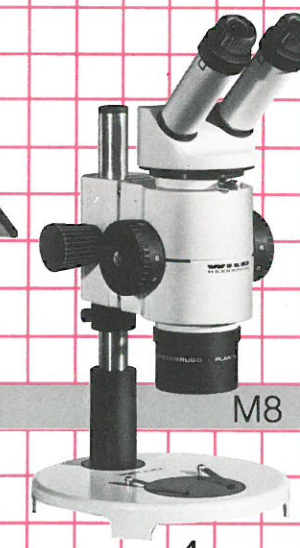
available for M3/M7/M8



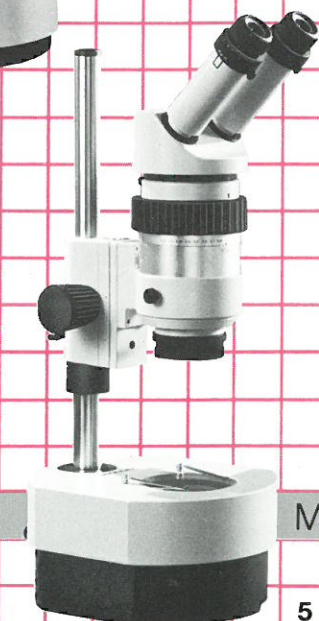
Wild M3



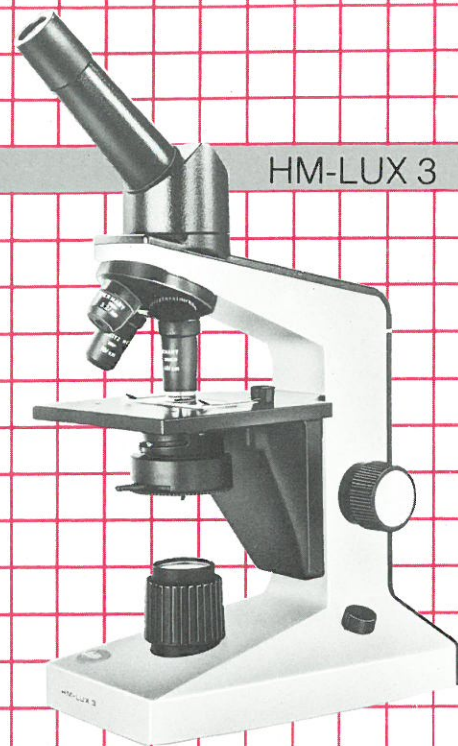
M5A/M5APO



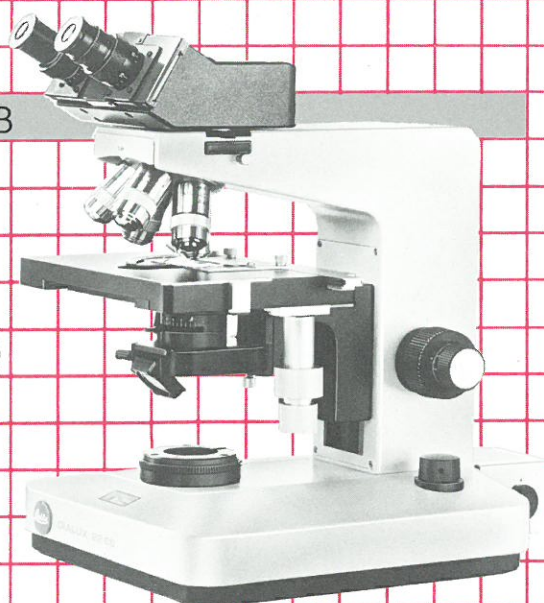
M8



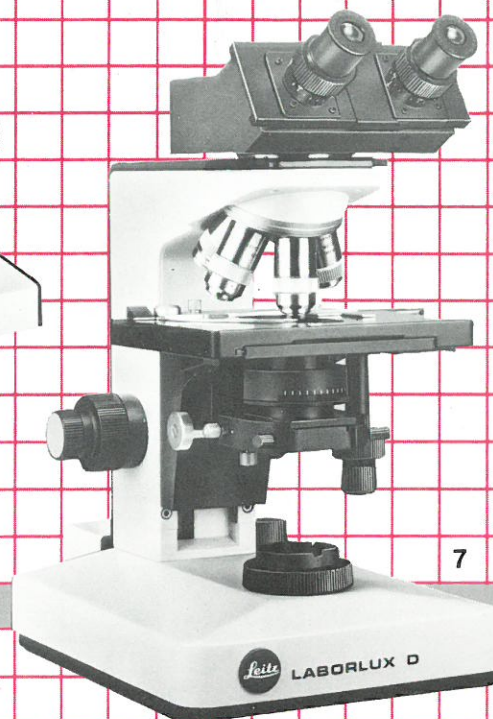
M7A/M7S



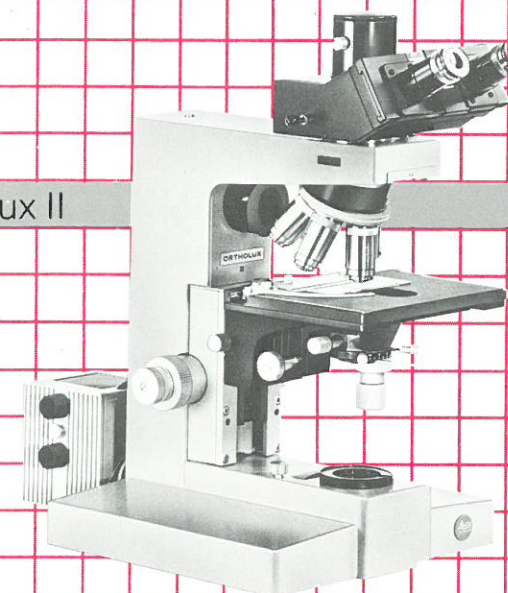
HM-LUX 3



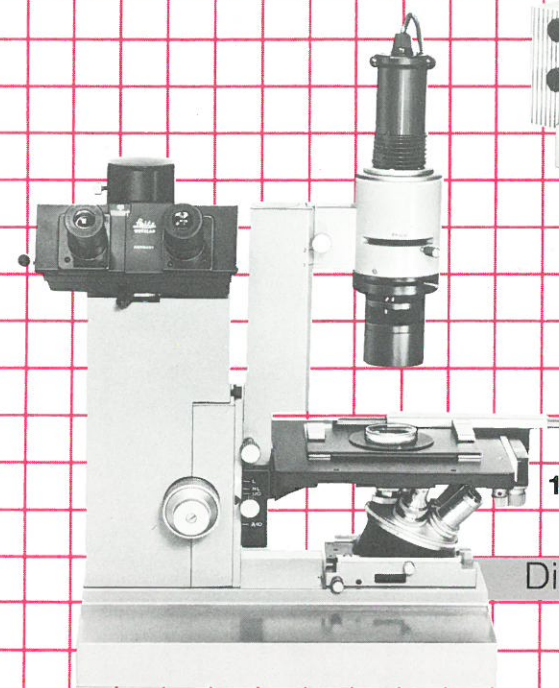
Dialux 22/22 EB



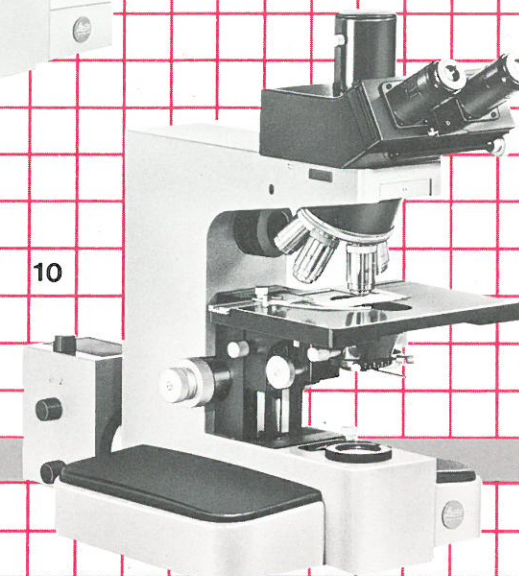
Laborlux D



Ortholux II



Diavert



Orthoplan



Compound Microscopes

Leitz HM-LUX 3

A microscope for teaching and the examination of biological objects in brightfield, darkfield and phase contrast, this robust instrument has been specially designed to meet the demands of teaching and students. Its reasonable price does not sacrifice the accepted Leitz standards of quality.

Special features:

- Chosen object area remains well centered in the field of view after magnification change.
- Perfect illumination from low power to oil immersion objectives, plus microscopy in darkfield and phase contrast.
- Sliding sleeve with slot for vertical adjustment of the condenser.
- Practical illuminators, with low-voltage lamp and built-in transformer. Continuous brightness adjustment.
- Single-knob adjustment for precise and effortless focussing.

Laborlux D/K

A robust new microscope, for biological and medical investigations, the Laborlux D/K is designed to use accessories from the Leitz modular range which make it suitable for use both in clinical and other routine laboratories.

Special features:

- A choice of single or dual knob to ensure convenient and accurate focussing.
- Excellent overall optical performance, outstanding contrast rendering and high resolving power characterise the EF objectives for observation in brightfield, darkground, and phase contrast.
- Condensers available for conventional brightfield and other methods of microscope illumination.

Leitz Dialux 22/22 EB

This microscope, for biological and medical research applications, offers an unrivalled optical performance while allowing relaxed and comfortable operation. The Dialux 22 has an external 12 volt, 100 watt quartz halogen light source which can be readily interchanged with mercury or xenon lamps for special applications. The 22 EB model has a built-in power supply and a voltmeter which also serves to indicate the colour temperature of its 6 volt, 20 watt light source.

Special features:

- Choice of object stage.
- Versatile, modular system.
- Ergonomy tube SV is available which gives continuously variable viewing angle between 0° and 40°.
- Quintuple revolving nosepieces and appropriate eyepieces offer excellent flatfield optical performance with a Field of view index of up to 22.

Leitz Diavert

This universal inverted microscope system is superior in performance to all its rivals. Designed for the microscopic investigation of cultures, fluids, sediments etc. in ordinary laboratory vessels, or in a controlled-environment chamber, the Diavert has applications in nearly every field of research.

Special features:

- Suitable for biology, chemistry, cytology, immunology, pharmacology, bacteriology etc.
- Can be used with brightfield, darkground, phase contrast, interference contrast, reflection contrast, polarization in transmitted light, fluorescence with incident light excitation.
- Range of magnifications from 16× to 1,250×.
- Can be converted into an incident light microscope.

Leitz Ortholux II

This modular microscope, designed for all conventional methods of microscopy and illumination, provides a reliable solution for all microscopy applications in biology and medicine. Using Leitz modular accessories it can be adapted for all methods of microscopic investigation.

Special features:

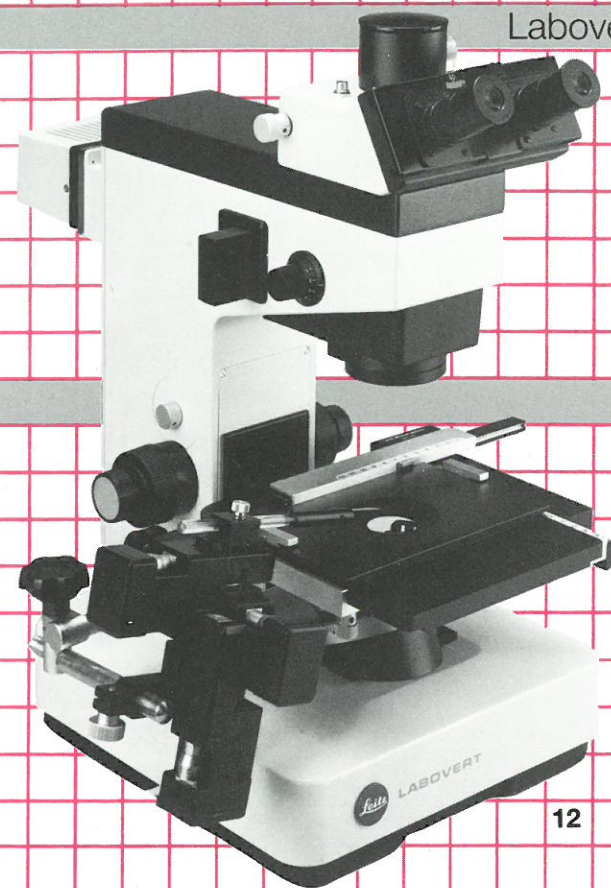
- Quintuple revolving nosepiece, designed to permit free access to the specimen, especially convenient during serial investigations.
- NPL FLUOTAR series of objectives produce contrasty images of optimum flatness throughout entire field.
- Interchangeable system condensers and light sources.
- Converts to a standard fluorescence microscope with addition of PLOEMOPAK 2.2 vertical illuminator.
- Wide range of supplementary equipment includes projection head, tracing attachment, heating and cooling stages, photographic systems, discussion tubes and comparison tubes.

Leitz Orthoplan

An exceptional large research microscope that can form the nucleus of a complete system of optical microscopy. Outstanding widefield optical performance gives added image detail to the periphery of its 28 field of view index, ensuring a considerable gain in information.

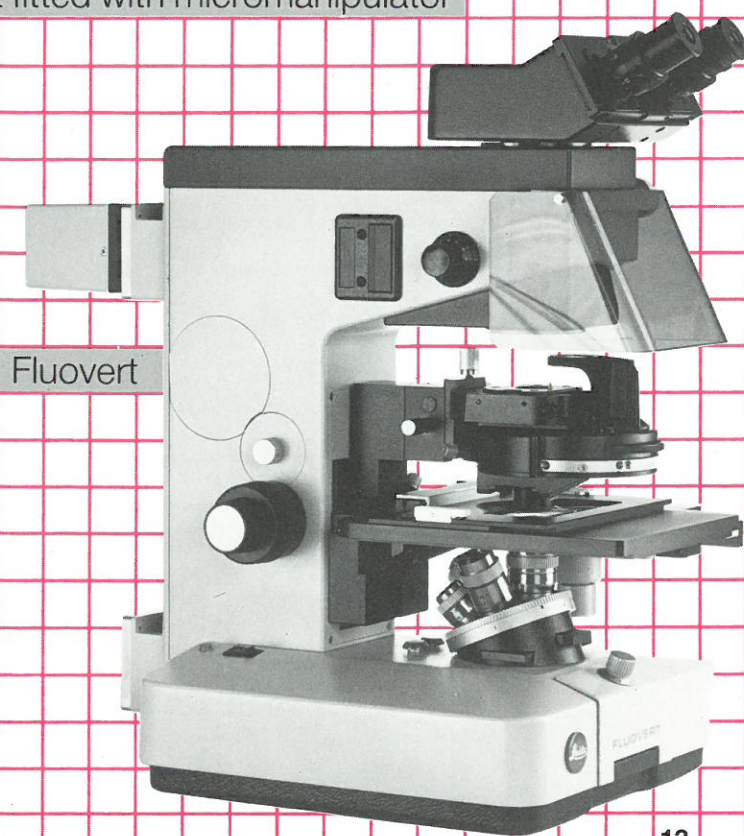
Special features:

- Central stand for all methods of microscope illumination and observation in transmitted and incident light, including quantitative microscopy with the Leitz MPV microscope photometer system and for automatic electronic image analysis.
- Light sources, condensers, object stages, nosepieces and binocular tubes all easily interchanged.
- Accepts all microscope attachment cameras in Wild and Leitz ranges.
- Binocular phototubes and beam splitter ensure uninterrupted observation during photography.
- Highest standard of performance for all versions of optical microscopy.



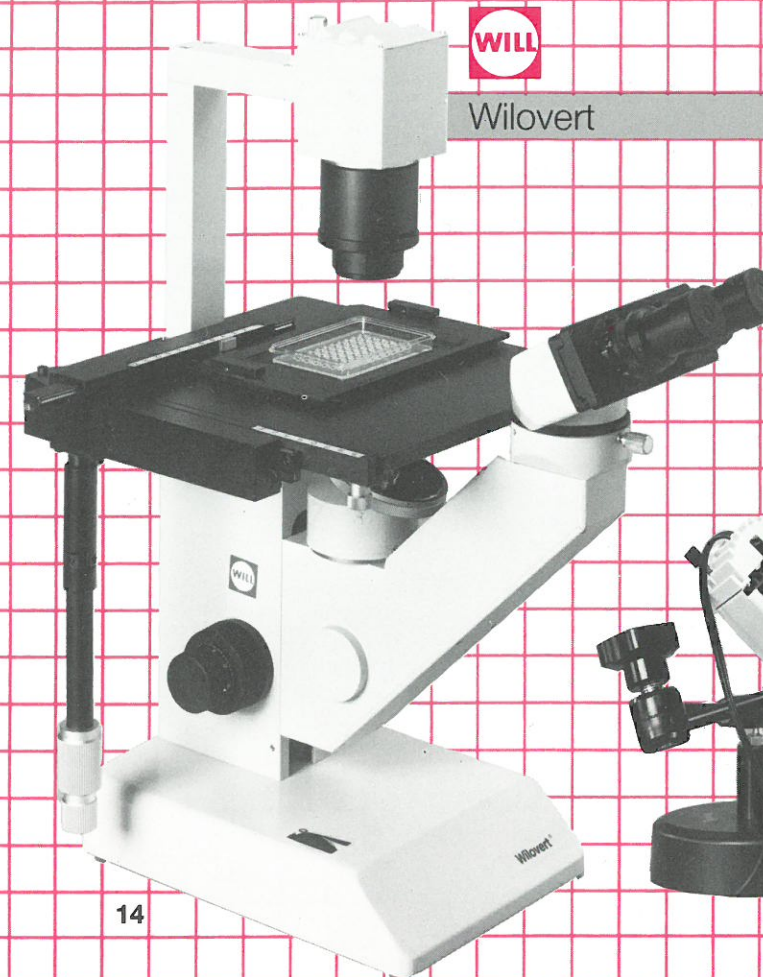
Labovert fitted with micromanipulator

12



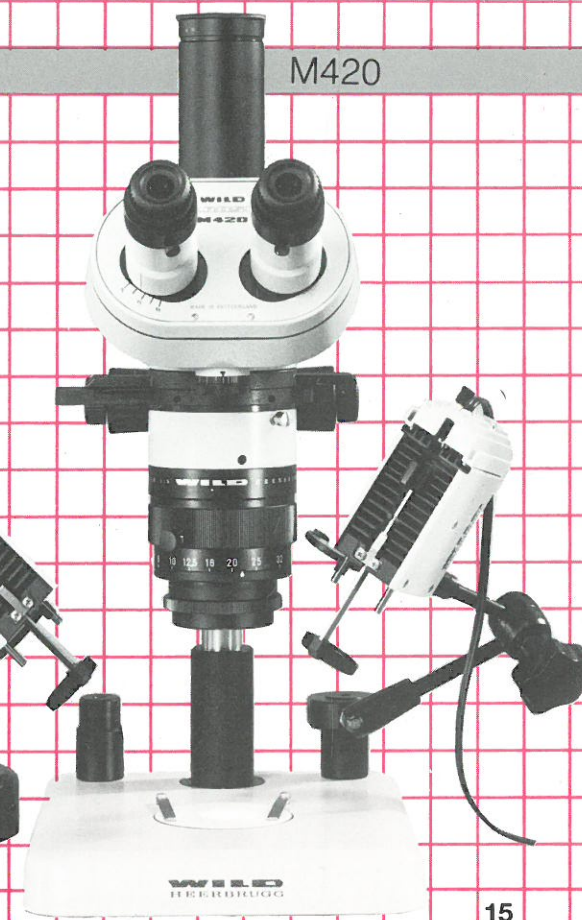
Fluovert

13



Wilovert

14



M420

15



Compound Microscopes

Leitz Labovert

The new Leitz Labovert revolutionises inverted microscopy. Its unique, patented design concept is an exceptional innovation, with many special benefits. The Labovert retains all the operational merits of our upright microscopes' ergonomic comfort, while providing all the facilities of a truly inverted microscope.

Special features:

- Outstanding ease and convenience of use.
- Field of view index up to 22.5 is largest available in inverted microscopy.
- 95mm working distance is largest available.
- Provides brightfield, darkfield, polarizing and phase contrast illumination.
- Largest selection of objectives.
- No other inverted microscope offers such a range of condensers.

Leitz Fluovert

The layout of the Labovert is extended in the Fluovert to give an inverted microscope designed specifically for incident-light fluorescence work. The full range of Leitz filter blocks covers all fluorochromes normally in use in life science laboratories.

Special features:

- Incidence light fluorescence components are built into the microscope base.
- A transmitted light insert allows the rapid switch over to bright or dark field, phase and interference contrast.
- Capacity for simultaneous attachment of up to three image-recording systems (e.g. photomicroscopy, cine and video).

Leitz Micromanipulators

Leitz new lightweight electronic micromanipulators can be attached to the focussing stage of our conventional or inverted microscopes. They have a movement range of 10mm and are operated on all three axes by an electronically-assisted precision joystick control.

Special features:

- Immediately obvious are the ease of operation and smoothness of movement.
- Can be fitted to the stage in seconds, on either or both sides of the stage.

Macroscopes

Wild M420

This unique macrocope features vertical beam path design, with specific advantages such as parallax-free observation for inspection, measurement, visual or photographic investigations and polarization work. The M420 has a tube for photographic accessories and is particularly suitable for use with Volpi cold light sources and fibre optic ring illuminators.

Special features:

- Superlative optical quality for crisp images and fine detail.
- Coaxial incident light, suitable for looking at flat shiny surfaces.
- Rotatable quarter-wave plate, to optimise contrast.
- Aperture diaphragm to increase depth of field.
- Choice of stand, illumination systems, measuring and photographic accessories.



Student and Laboratory Series V and BX Microscopes

The V-series and BX microscopes were specially designed as reasonably priced, high quality teaching microscopes. Their stands ensure stability and their observation tubes can be rotated through 360°. WILL also supplies transmitted and incident light fluorescence microscopes specially designed to meet the requirements of immunological and other fluorescence applications.

Special features:

- Co-axial focus controls reduce fatigue.
- Coated objectives and eyepieces reduce reflections.
- Quality optics and precise, reliable mechanics.
- Full range of accessories for routine laboratory microscopy.



Wilovert

The new Wilovert inverted microscope is a low-priced instrument for routine investigation and tissue culture work, of exceptionally sturdy design.

Special Features:

- Long working distance objectives for bright field and phase contrast.
- Large plain stage 210×235 mm.
- Built-in 6V 10W light source and regulating transformer
- Attachable mechanical stage with low positioned controls and interchangeable holders for various tissue culture trays.
- Specially designed long working distance condenser for even, high intensity illumination at all magnifications – no adjustment necessary.

Photomicrographic Equipment

Wild 12/05 and 12/15 Semiphotomats

The Wild MPS 12 microcamera is a low-cost unit intended for straightforward photomicrography. It can be fitted to Wild stereomicroscopes, Leitz microscopes and instruments of other makes. The shutter housing can be adapted from integral to spot exposure measurements as required.

Two exposure meters, the MPS 05 and MPS 15 can be linked to the MPS 12 camera. Having the exposure necessary, the shutter speed is manually set.

The MPS 05 exposure meter has film speed settings from 12 – 3200 ASA.

The MPS 15 exposure meter is more robust and sophisticated, with an extended exposure range for film speeds 2 – 6400 ASA.

Special Features:

- Either half or all light to the film plane, as required.
- Vibration free mechanical shutter.
- Shutter speeds from 1/125 second to 1 second, B and T.
- Camera backs for all normal film formats.
- MPS 05 meter includes dark-field compensation, camera factor and indication of exposure time up to 30 minutes.
- MPS 15 meter has extended range and includes reciprocity failure correction.

Wild MPS 51/45 Photoautomat

This fully automatic exposure meter gives continuous automatic evaluation of the light intensity by spot or integrated measurement. The electronics can take into account all variables such as darkfield, camera factor, corrections for reciprocity failure etc.

Special features:

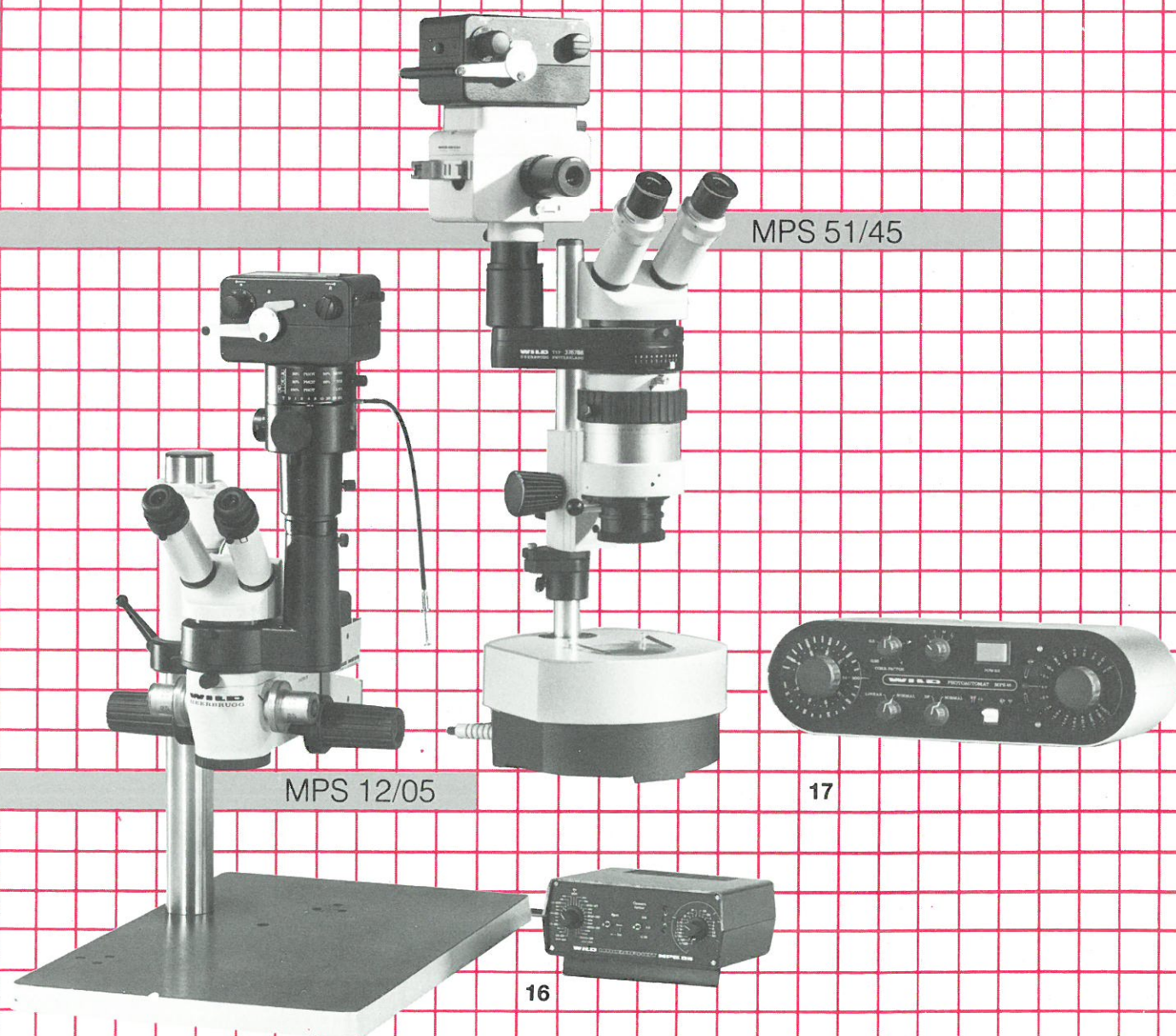
- Camera backs for film formats up to 5"×4".
- Film speeds from 12-37 DIN (12-4000 ASA).
- Integrated measurement with shutter unit MPS 51.
- Spot measurement with shutter unit MPS 51s.
- Pilot lamps for very short or long exposure times, exposure length and end of 35mm film.

Leitz Vario Orthomat 2

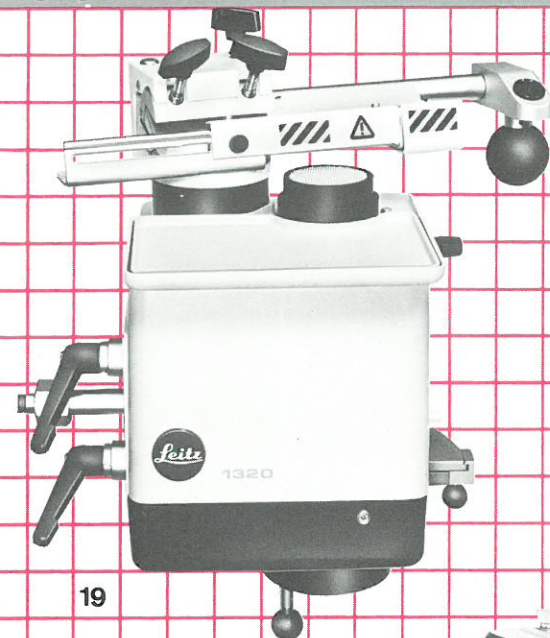
The Leitz Vario Orthomat 2 is a superior automatic variable format attachment camera which can convert any modern Leitz microscope into a professional photomicrographic system. Incorporating the latest technology, the control unit has an attractive digital display. A photo multiplier light-measuring system ensures very sensitive and accurate exposure control, to complement the excellent optical and mechanical performance.

Special features:

- Handles 35 mm, 3¼×4¼ inch, 5×4 inch and 9×12 cm film formats.
- 5× to 12.5× pancratic eyepiece gives zoom specimen area selection.
- Automatic exposure metering during exposure process.
- Illuminated film format and 'spot' exposure area indication.
- 'Spot' exposures can be measured anywhere in field of view.
- Digital display gives exposure time, reciprocity failure compensation, object cover and film speed data.
- Modern keyboard controls all functions including special requirements, such as exposure time memory, manual shutter release, double exposure, flash synchronisation, etc.
- Acoustic signals indicate end of exposure time and extreme light levels.

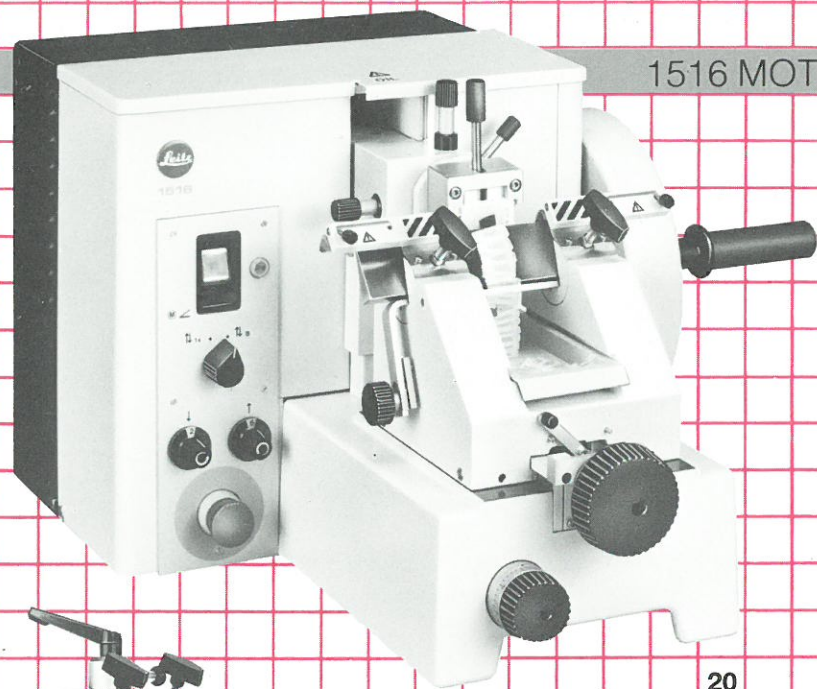


1320



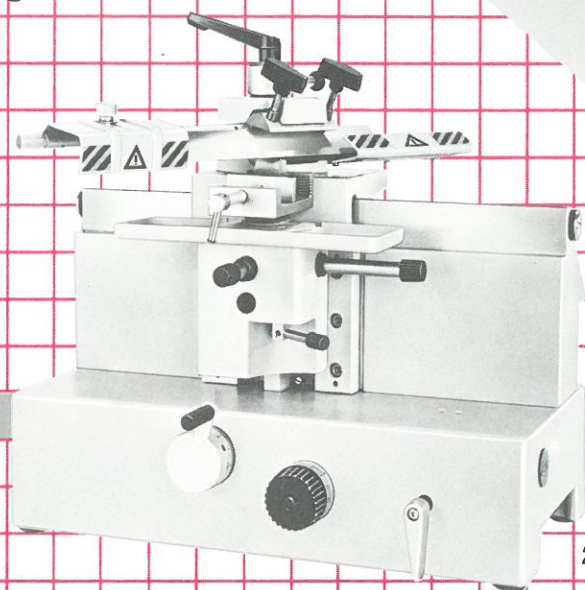
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1516 MOT



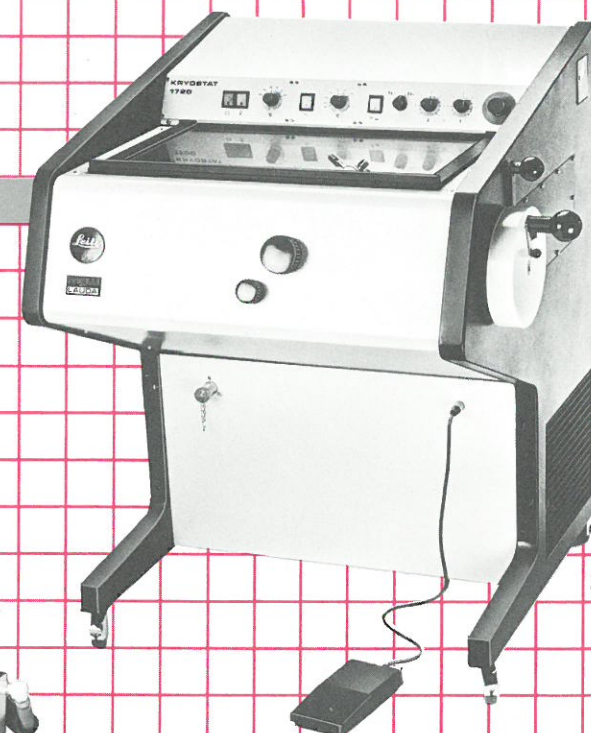
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1208



21

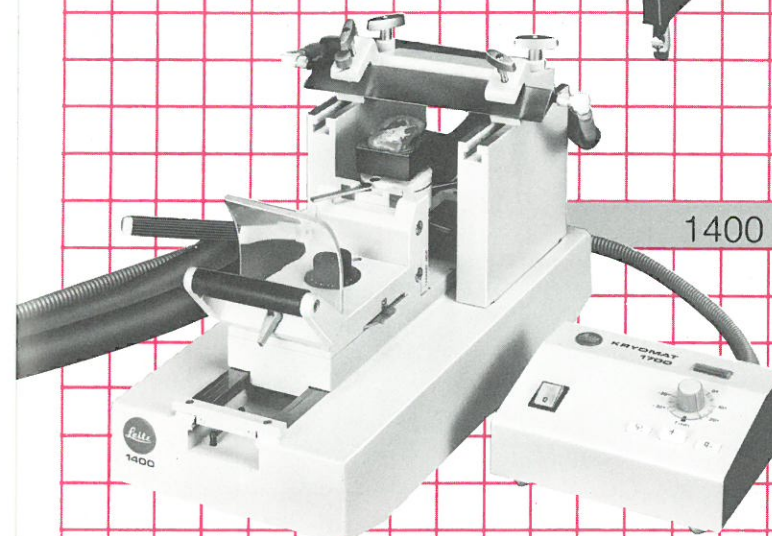
1720



Cryostat

23

1400



22

1600



24



Microtomes

Leitz 1320 Freezing Microtomes

These precision microtomes make frozen-section cutting in the routine laboratory convenient and reliable. The knife moves towards the specimen horizontally on a circular track. After each cutting action the specimen is raised by the required μ distance. The knife clamping mechanism guarantees high cutting precision and the knife can be changed without adjusting the angle of inclination.

Special features:

- Section thicknesses up to $30\mu\text{m}$ in $2\mu\text{m}$ steps.
- Range of knife profiles.
- Safe, effortless operation.
- Angle of knife inclination variable between 10° – 25° .
- Full range of accessories.

Leitz 1516 MOT Rotary Microtome

This high-quality rotary microtome gives uniform and precisely reproducible sections while simplifying work through its convenience of operation. The 1516 is particularly suitable for cutting sections of hard materials such as bone and resin embedded material.

Special features:

- Front-mounted controls for convenient operation.
- Cuts section thicknesses from $1\mu\text{m}$ to $25\mu\text{m}$ in $1\mu\text{m}$ increments.
- Continuous choice of cutting rate from 0.5 to 160mm per second.
- Universal tilting of object clamp through 10° .

Leitz 1512 Rotary microtome

High quality rotary microtome – manual operation microtome, features as above

Leitz 1208 Sledge Microtome

The 1208 was specially designed for routine laboratory work in the fields of pathology, histology, zoology and botany. The design concept guarantees precision sectioning. Reproducible section thickness is controlled via a knurled knob which permits adjustment from $1\mu\text{m}$ to $30\mu\text{m}$ in $1\mu\text{m}$ steps. The object clamp is rotatable and can be inclined in all directions by 10° .

Special features:

- Automatic or manual feed mechanism.
- Rigid object clamp construction for maximum stability.
- Constant knife inclination even when moved or changed.
- Newly designed knife guard ensures safety.

Leitz 1400 Base Sledge Microtomes

These universal microtomes for research and routine work in histology, zoology and botany guarantee high-precision cutting irrespective of the object's hardness. This is ensured by their wide, precision ground slide tracks and the uniformly moving base sledge. Both models have built-in feed mechanisms, robust specimen mounting mechanisms and rigid knife holders.

Special features:

- Adjustment of automatic object feed in steps from $1\mu\text{m}$ to $40\mu\text{m}$.
- 1401 model also offers manual feed from 0.25 to $1\mu\text{m}$.
- Feed range of 37mm controlled by rapid adjustment lever.
- Ball-and-socket clamp with 15° universal tilting range.
- Accepts freezing stages up to $130 \times 90\text{mm}$.

Leitz 1720 Cryostat

This ergonomically-designed cryostat creates optimum conditions for the cutting of frozen sections of fresh and fixed tissue. Top-loading freezing chamber has large sliding window for convenient manipulation of microtome. Cutting performance of the built-in Leitz 1512K rotary microtome is unsurpassed. It produces top-quality sections, in $1\mu\text{m}$ adjustable steps, from $1\mu\text{m}$ to $25\mu\text{m}$ thicknesses.

Special features:

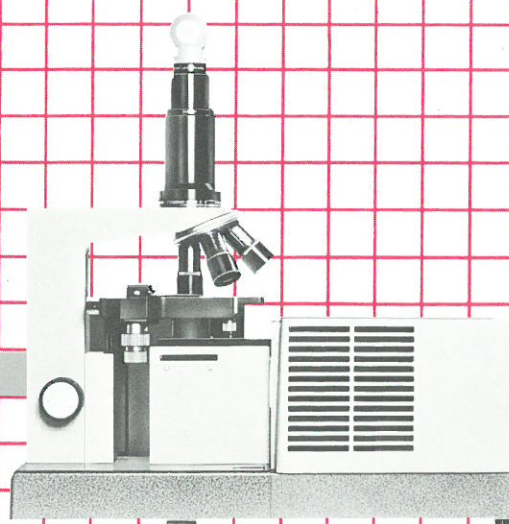
- Chamber temperatures between 10°C and -35°C .
- Optional object stage holder with independent cooling and heating.
- Convenient external operation of main controls.
- Motor-driven microtome version offers independent control of cutting and return movement speeds.

Leitz 1600 Saw Microtome

This specially designed rotary saw microtome has a diamond-coated edge to ensure precision cutting of cross-sections of undecalcified bone, teeth, plastics reinforced with glass fibre, metal samples, ceramics and minerals. The internal-hole saw rotates horizontally and is mounted in an annular frame for maximum stability.

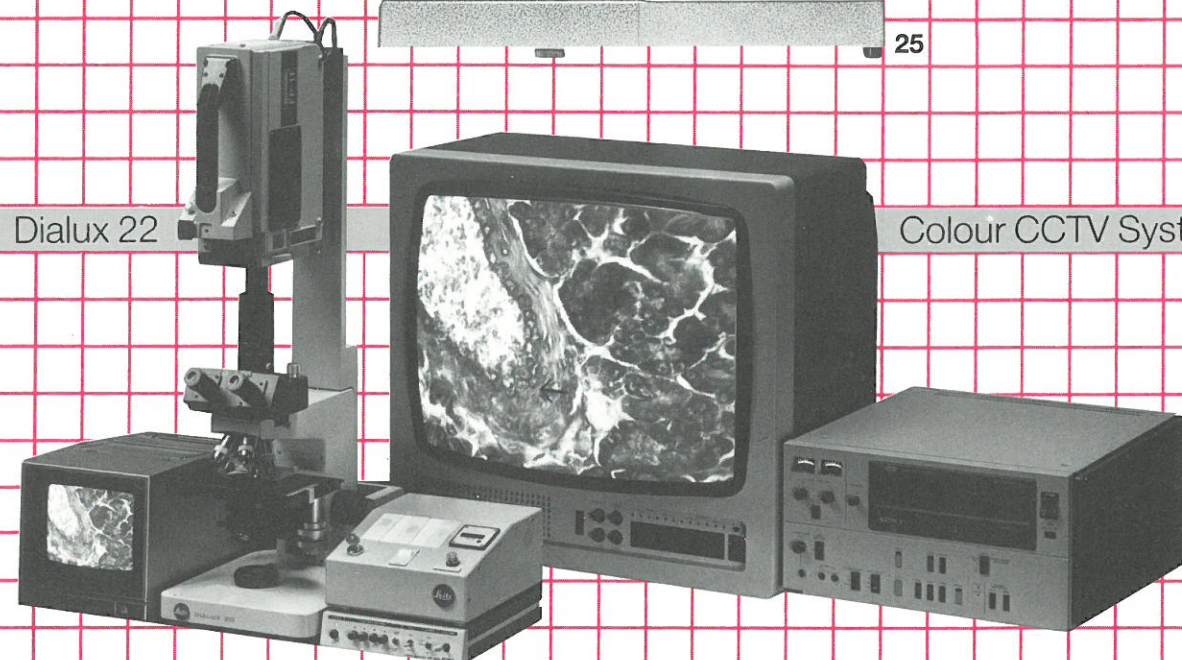
Special features:

- Cuts reproducible sections from $50\mu\text{m}$ to $100\mu\text{m}$ or thicker.
- Special design minimises object deformation and damage.
- In-built water cooling prevents overheating of object.
- Spring traction object guide with adjustable hydraulic control, for extremely slow but even advance.



Neo Promar

25



Dialux 22

Colour CCTV System

26



Microprojectors and TV Microscopes

Leitz Neo Promar Microprojector

For practical examination work or for teaching, this projection microscope combines the optical and mechanical performance of a Leitz microscope with the light power of a 35mm projector, making the structure of microscopic specimens visible to a number of observers. It ensures that all members of a group see the same picture simultaneously, and that explanations refer to the relevant portion of the object.

Special features:

- Direct projection of microscopic specimens in transmitted light for teaching or discussion purposes.
- Screen image sizes up to approx. 2m diameter on ordinary projection screens.
- Reproduction scale up to approx. 3000:1 means brilliant images with great detail.

- Projection attachment with built-in eyepiece provides the opportunity for quick and convenient examination of specimens without the need to darken the room.
- Conventional microscopic viewing is made possible by replacing the tube and eyepiece with an appropriate binocular head.

Leitz Dialux 22 Colour CCTV Microscopy System

Adaptability, ease of operation, and the highest standards of optical and mechanical precision combine in the Leitz Dialux 20, a laboratory and research microscope which offers the most up-to-date technology while still allowing for further development. The Dialux 20 adapts readily to any application in the biological and medical laboratory. Particularly suitable for TV microscopy in conjunction with a suitable television camera, video monitor and, if required, a video recorder.

Special features:

- Teaching and group discussion can be carried out at a comfortable ambient light level.
- High resolution and excellent colour rendering of specimen.
- Video pointer with joy-stick control. Switchable black/white, with squares and circles generator.
- Key-switchable special power supply unit for security of operation. Transilluminated viewer for slide selection.
- Image can be simultaneously viewed through the microscope and shown on the monitor screen.
- Can be used for brightfield, phase contrast and polarization.
- Image can be videorecorded.



Polarizing Microscopes

Leitz Laborlux 11/12 POL

Specially designed for effortless microscopy, this ergonomically designed microscope offers the user comfort and convenience in use. These instruments are routine and laboratory microscopes for observations and measurement in polarized light. Incident light attachments are available.

Special features:

- Modular construction.
- Observation and intermediate tubes provide optimum instrumentation for most applications likely to be encountered.
- Quadruple revolving nosepiece.
- Objectives not in use point to the rear, permitting ready accessibility of specimen and object stage.

Leitz Ortholux II POL-BK

This research polarizing microscope is based on a large stand with a co-axial, two-knob control. Total travel of coarse and fine adjustment is 28mm.

Special BK features:

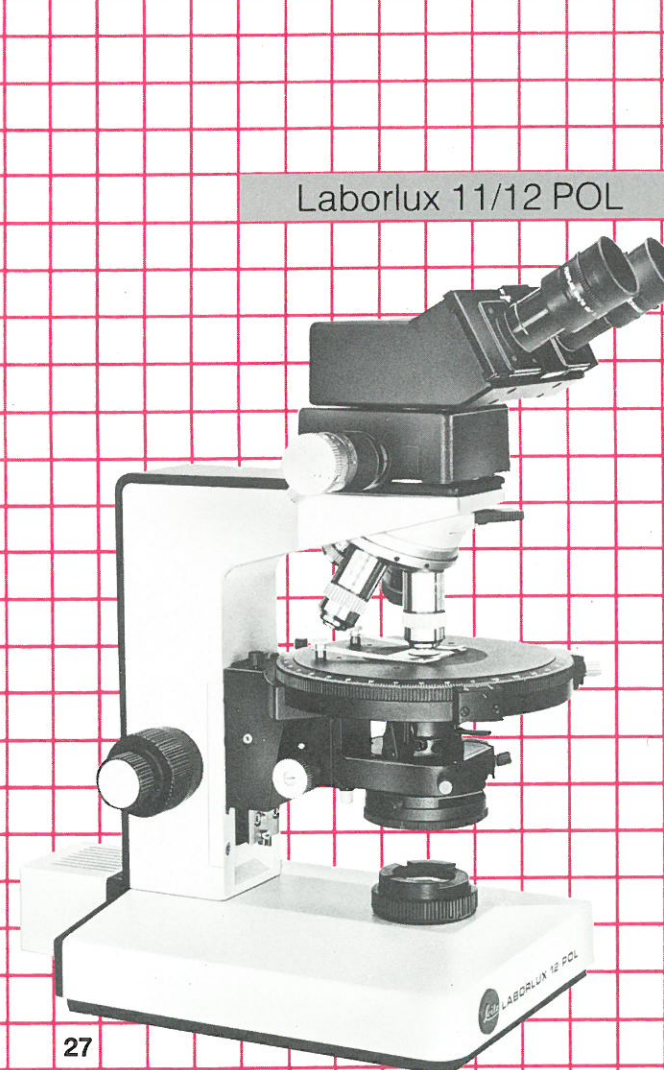
- Binocular outfit with pol phototube FSA55.
- Suitable for all work in transmitted and incident polarized light, interference and phase contrast.
- Rotatable 360° analyser with verniers reading to 1/10°.
- Quintuple objective revolving nosepiece with individual objective centration.
- Accepts our wide range of modular accessories.

Leitz Orthoplan-POL

Equipped for the observation and measurement of isotropic and anisotropic specimens in polarized transmitted and incident light, this versatile research microscope offers wide capability in all fields of research.

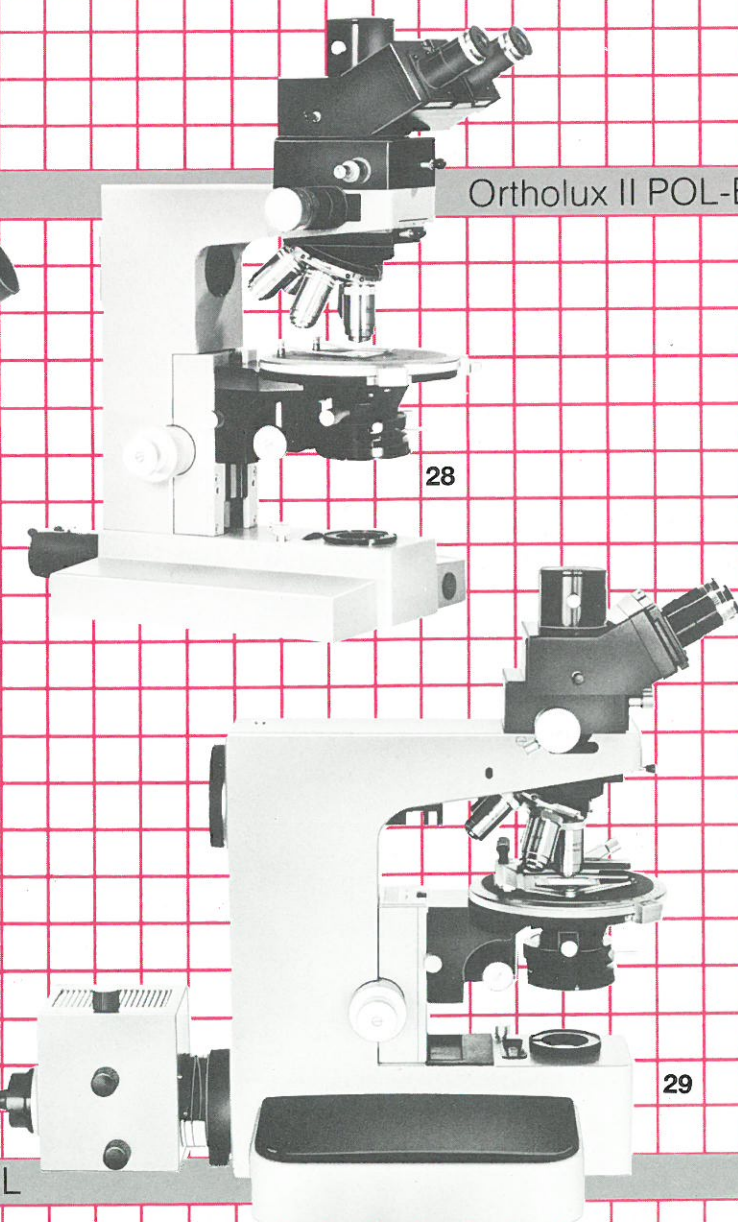
Special features:

- Interchangeable housings for quartz halogen, spectral and gas discharge lamps.
- Quintuple revolving nosepiece allows centration of individual objectives.
- Strain-free NPL PLANO objectives for transmitted or incident light.
- Analyser rotatable through 360°, with disengageable neutral-density filter.
- Facilities for photomicrography, microphotometry and image analysis.



Laborlux 11/12 POL

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Ortholux II POL-BK

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Orthoplan-POL

Operating Microscopes

Wild M610/M630/M650 Surgical Operating Microscopes

Wild's series M600 instruments are designed around the necessity for sterility, stability, mobility, versatility and convenience in the operating theatre. Their uncompromisingly high quality and unique, advanced design are the result of over sixty years experience. The three models differ mainly in their number of magnification steps.

Special features:

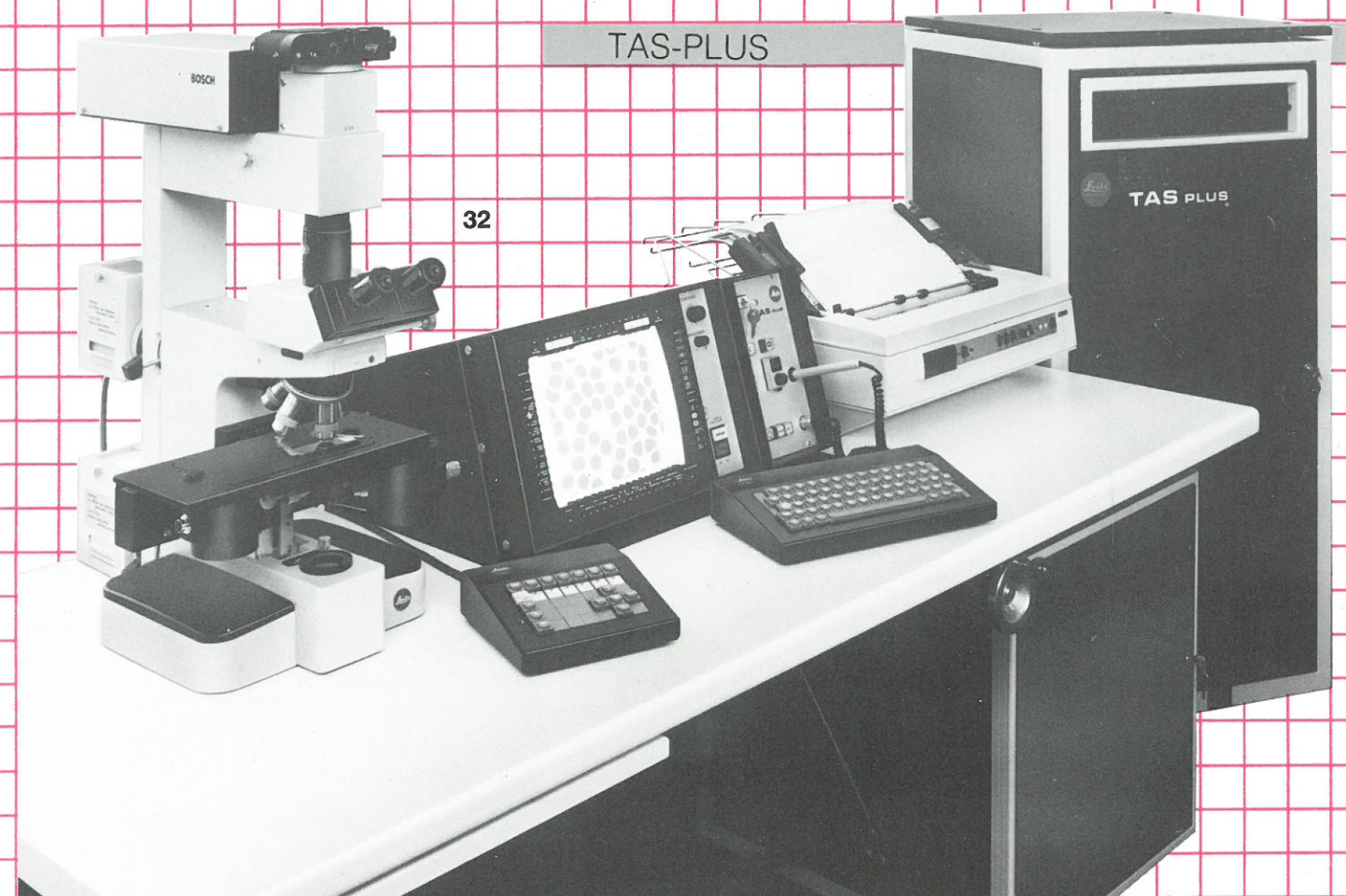
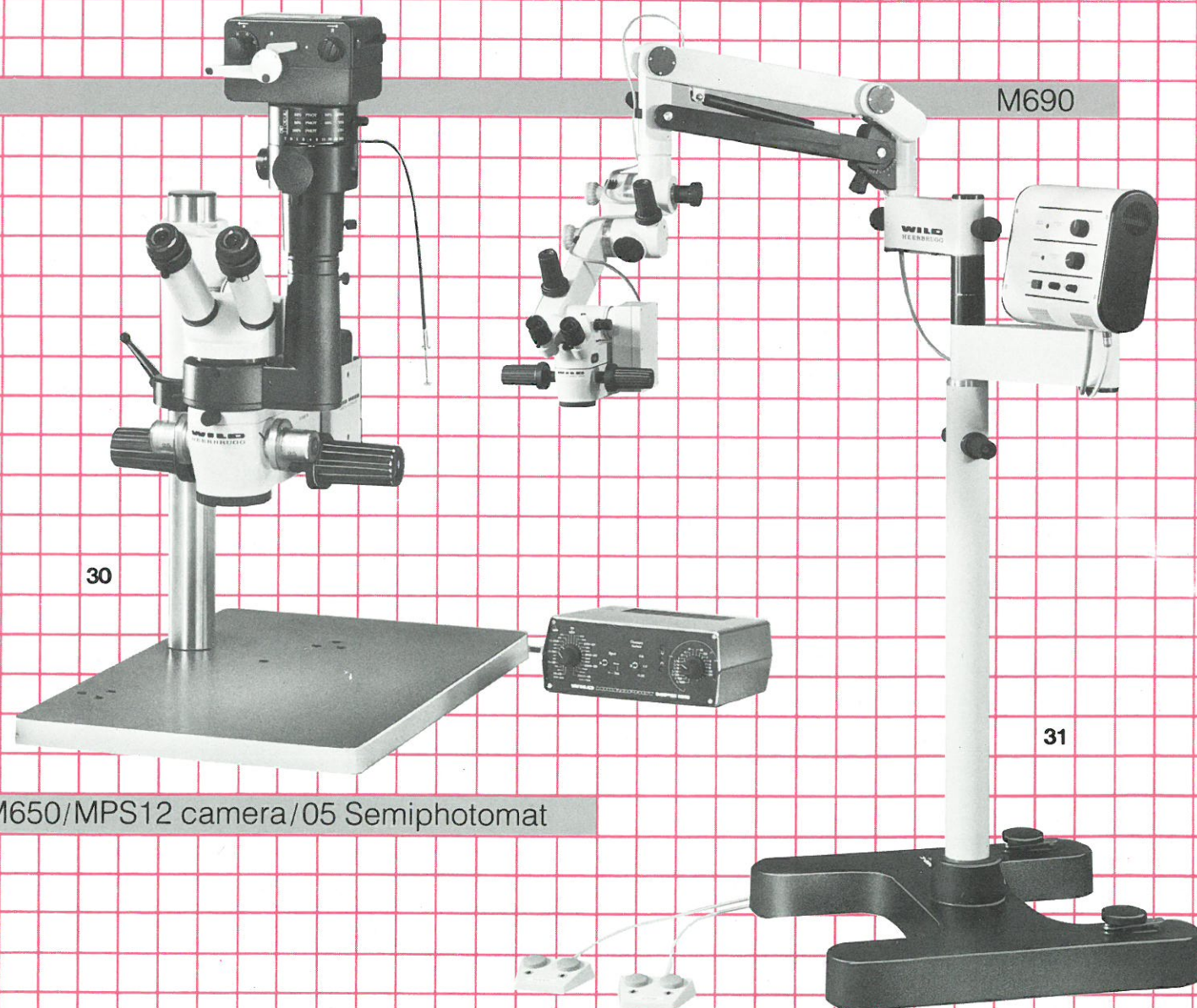
- Unsurpassed optical quality.
- Stands for every field of application.
- Tiltable joints, microscope carriers and binocular tubes match the instrument to specific medical techniques.
- Interchangeable optical accessories.
- Sterilizable controls.
- Modular design ensures versatility.

Wild M690 Zoom Surgical Operating Microscope

Only Wild can offer surgeons zoom illumination with constant image brightness, thus greatly reducing fatigue. The microscope's 1:5 zoom magnification changer and focussing drive are powered by quiet electric motors that can be hand or foot-controlled.

Special features:

- Unique illumination system ensures field of view is fully illuminated for any magnification.
- Refined optical system gives superlative image quality.
- Wide range of purpose-built modular accessories.
- Stands adjust to any surgical technique.



Equipment for Quantitative Microscopy

Leitz TAS-PLUS Automatic Image Analyser

At the centre of Leitz image analysis capability is the automatic TAS-PLUS instrumentation concept. TAS-PLUS is a third-generation development of the original Leitz TAS image evaluation system created for solving image analysis problems in research and routine work.

The essential features of TAS-PLUS are a co-ordination of optical, mechanical and electronic modules, and a balanced combination of hardware and software techniques. These features add together to produce a remarkable adaptability to even the most varied problems. It provides a comprehensive range of particle measurement and analysis facilities, including quantity, size, distribution, area, form, orientation, adjacency relationships, grey levels etc.

Special features:

- Easy operator programming.
- Automatic focussing and the facility of image rotation.
- Sophisticated interactive memory facilities.
- Realtime image dilation/erosion
- Modular elements for expandability.

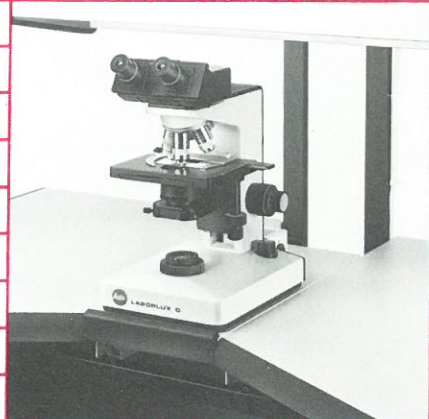
Leitz also produce a comprehensive range of microscope photometers, the MPV series.

Leitz **MPV compact** is a convenient attachment unit for all modern Leitz microscopes. Simple to use and computer-compatible.

The **MPV compact MT** is a new concept for immunologists, applying the MPV compact to the automatic photometric reading of reactions carried out in microtest trays.

Other specialist applications include fluorometry, autoradiography and flow cytophotometry in cell biology.

The sophisticated, computer-compatible, **MPV 3** is a high performance instrument supplying the whole range of research and routine capability. Functions carried out include absorption, transmission, reflectance, fluorescence and spectral analyses on microscope specimens, with extensive automation and flexibility of data processing and recording facilities.



Accessories

While it is not possible to do justice to our full range of instruments and accessories in a survey of this kind, we hope you will have found this publication of some value.

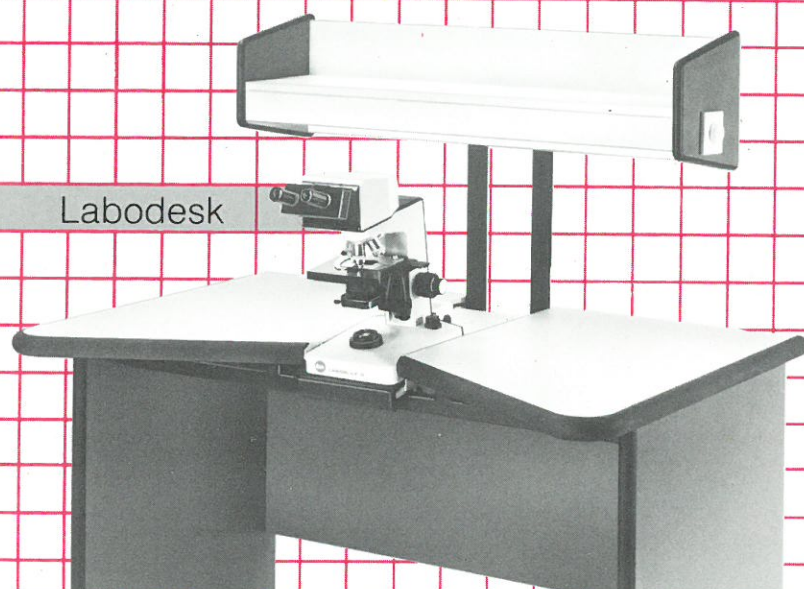
Leitz pioneered the concept of modular design in microscopy with the result that the range of combinations of main systems and accessories is virtually limitless.

Add to this the unequalled Leitz contract maintenance service, for all Wild and Leitz products, and you will realize how both companies have earned their worldwide reputations for superlative, reliable products and service.

If you would like to receive further information on any product or field of application mentioned in this survey, simply tick the relevant number on the reply-paid card. Each of our product brochures includes a relevant range of accessories.

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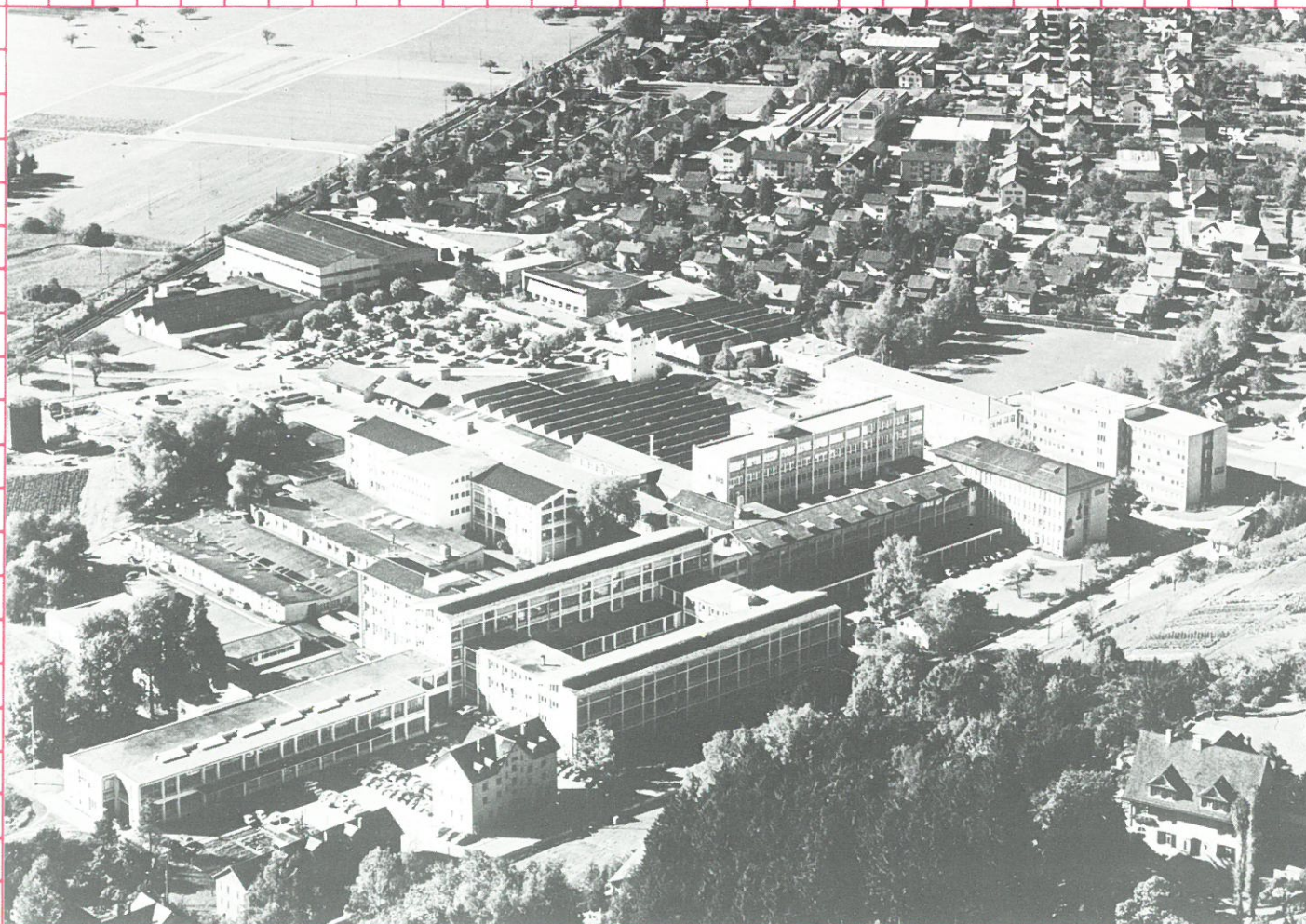
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▼ The Wild factory in Heerbrugg, Switzerland



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