TreAdvisory GmbH List of Microscopes

Brief Company Profile

TreAdvisory is a Trade and Research firm composed of a team with a long-standing research experience in relation to Foreign Direct Investment (FDI), market studies and supply chains distribution. TreAdvisory provides leading-edge professional expertise with a clear operations/owner's perspective. We have a hands-on-experience and established networks to private sector players, in both Kenya and Germany.

Our Purpose - Your Benefit

Understanding ourselves as both services and products provider in sectors within public health, agriculture, and green energy consultancy. As such, our focus is in two main activities namely: *a) Economic Research and Market Trend Analysis and* b) *Export Trade, focusing on Medical devices, Farm Equipment and Solar Energy*.

Our esteemed Clients do not only benefit from our international networks and experience but also value our multidisciplinary approach. Be it the market studies and planning of an appropriate new market entry strategy or the analysis of an economy's market potential, or the supply of high-quality equipment, we always keep the full picture in mind.

From collecting primary market data and economic feasibility assessments to preparing technical reports and facilitating exports/investment, we cover the complete range of services.

Mission

Combining operational background and our international experience with professionalism towards workable innovation and modern technology, it is our mission to contribute strategically to the success and competitiveness of our Clients' projects.

TreAdvisory GmbH is partnering with **Helmut Hund GmbH**, a German company manufacturing electronics, optics, fiber-optics, plastic injection moulding and precision mechanics.

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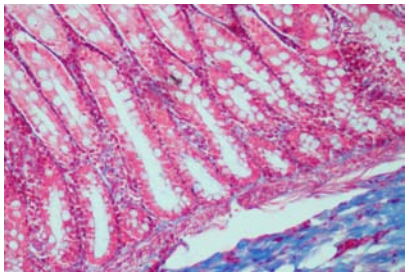
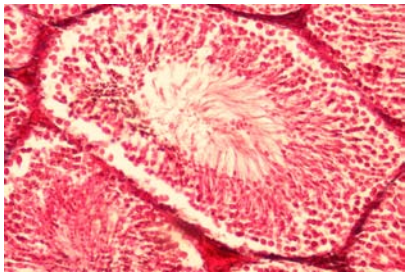
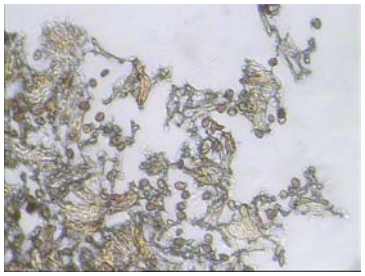
Med-Prax 3

The Microscope for Biological Laboratories and Education







Save investments: Reliable Microscopic Results with Expert Consultancy

Thanks to its numerous features and related benefits, the Med-Prax 3 is the ideal instrument for routine investigations of stained biological samples in medicine and biological education:

- Easy and comfortable brightfield imaging
- Ergonomic handling
- Durable LED illumination
- Clear and crisp microscopic images
- High stability and durability
- Manufactured according to Hund quality standards

Stability and Ergonomy

Stable cast-metal stand

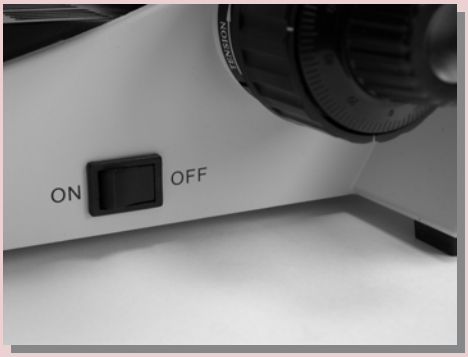
- Guarantees stable and reproducible microscopic results

Ergonomic Siedentopf-type observation tube

- Comfortable inclination angle (30°)
- Easy adjustment of interpupillary distance (50 - 75 mm)
- Diopter correction on left eyepiece tube

Ergonomic focusing drive with additional functionality

- Coaxial coarse and fine focusing drive knobs for fast and sensitive focusing of a specimen
- Adjustment of drive friction at right-hand focusing drive



Ergonomic position of brightness control

- Location of on/off switch and brightness control wheel close to focusing drive knobs supports ergonomic and fatigue-free operation of the Med-Prax 3

High-Performance Optical System

A wide range of magnifications for routine applications

For maximum image flatness, the quadruple nosepiece of the Med-Prax 3 is equipped with planachromatic objectivs:

- Plan 4/0.10
- Plan 10/0.25
- Plan 40/0.65, spring-loaded
- Plan 100/1.25 Oel, spring-loaded

Homogeneous illumination

- Abbe condenser (NA 1.25) with aperture diaphragm provides homogeneous illumination
- Optional filters can be inserted into the included filter holder to meet individual preferences and for contrast enhancement
- Light source with continuously adjustable brightness

Wide-field eyepieces with diopter correction

- Standard eypepieces WF 10x/18 with diopter correction on left eyepiece tube
- Eyepieces can be secured to prevent unintended removal from the microscope, particularly in educational environments

Robust and comfortable microscope stage

- The Med-Prax 3 is equipped with a 140 mm x 130 mm mechanical stage with a travel range of 76 mm x 50 mm
- Vernier scales on both axes make it easier to locate interesting specimen details
- The specimen holder with spring lever holds up to two standard glass slides (76 mm x 26 mm)

Easy Maintenance

Long maintenance intervals

High-quality material and best manufacturing practice demand hardly any maintenance over the entire economic life of the Med-Prax 3

Powerful white LED illumination

- The LED light source delivers as much light as a 20-W halogen lamp, but with less than one-sixth of its power consumption
- Maintenance-free: No lampe change necessary over the economic life of the instrument

Technical Data

Stand	Solid cast-metal stand
Focusing drive	Coaxial coarse and fine focusing drives Max. travel of coarse focusing drive: 25 mm Resolution of fine focusing drive: 2 µm per scale division
Observation tube	Binocular, Siedentopf type Inclination angle 30° Tube factor 1x Interpupillary distance 50 mm - 75 mm Diopter correction on left eyepiece tube
Nosepiece	Quadruple
Objectives	Planachromatic: Plan 4/0.10 Plan 10/0.25 Plan 40/0.65, spring-loaded Plan 100/1.25 Oel, spring-loaded
Mechanical stage	Size 140 mm x 130 mm, travel range 76 mm x 50 mm Metal specimen holder with spring lever
Condenser	Abbe type, NA 1.25, with aperture diaphragm and filter holder Height-adjustable
Illumination	High-power LED, white
Mains voltage	100 V - 240 V AC

Technical data subject to changes without notice.

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We bring technologies together.

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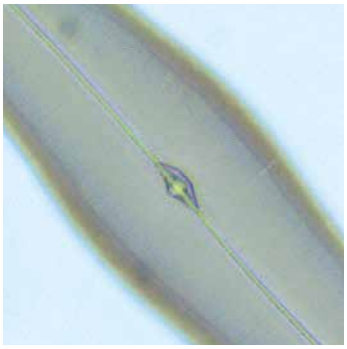
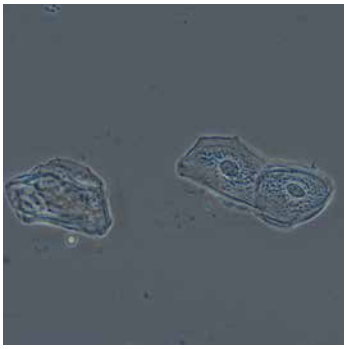
Laboratory microscope medicus pro

The versatile laboratory microscope for education, medical practice and clinical lab

Laboratory microscope medicus pro



Diatom, brightfield



Epithelial cells, phase contrast

Diatom, darkfield

Ergonomy, configuration and performance of the medicus pro are especially aligned with the demands of established doctors and clinical laboratories.

An advanced optical system forms a brilliant microscopic image in brightfield, phase contrast and darkfield (up to the objective 40x).

Five configurations, one system

Two basic configurations are available for a variety of applications, either with binocular or trinocular observation tubes. An LED illumination guarantees economic operation and a long lifetime. The medicus pro Myko is a dedicated configuration for the detection of mycoses, yeasts and bacteria via incident-light fluorescence.

As the system has the capability to integrate several contrasting techniques, it is not only space-saving, but in connection with the IVD label, it also guarantees high diagnostic reliability. A competent and experienced team of experts will assist you in the configuration of your microscope and in the choice of the most suitable documentation option.

Benefits:

- Bright white-light LED light source (3 W), adjustable colour temperature, with field diaphragm for alignment according to Köhler
- „Light memory“ function
- Ergonomic focusing drive
- Phase contrast equipment for objectives 20x/40x, darkfield (optional) up to the 40x
- Incident-light fluorescence illuminator, with optical switch brighfield/fluorescence
- Own fluorochrome (Mykoval) for the detection of mycoses

Practicable configurations

medicus pro B / medicus pro T

For the examination of high-contrast, mostly stained specimens like tissue sections or smears in brightfield microscopy. With binocular tube (B) or trinocular tube (T), planachromatic objectives 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 Oil and condenser NA1.25.

medicus pro PH-B / medicus pro PH-T

Optimal image contrast for the examination of low-contrast, unstained specimens like urine sediments, bacteria or cells. With binocular tube (B) or trinocular tube (T), planachromatic objectives 4x/0.10, 20x/0.40 PH, 40x/0.65 PH, 100x/1.25 Oil and condenser NA1.25 with phase contrast slider for the objectives 20x/40x.

medicus pro Myko

For the fluorescence examination of specimens stained with Mykoval, particularly smears or environmental samples. An optical switch allows examinations in brightfield. With binocular tube, planachromatic objectives 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 Oil und condenser NA1.25. Incident-light illuminator with excitation wavelength 365 nm and emission > 420 nm.

Technical data

	Specifications medicus pro
Stand	Cast metal, integrated recessed grip
Eyepieces	WF 10x/20 (suitable for spectacle wearers)
Observation tubes	Binocular, Siedentopf type trinocular (50/50), Siedentopf type
Camera adapter (for trinocular tube)	C-Mount 0.5x for cameras with 1/2“ sensors
Nosepiece	Quintuple, with ball bearing, inclined backwards
Objectives	Planachromatic 4x, 10x, 40x, 100x (brightfield), planachromatic 20x, 40x (phase contrast)
Stage	150 mm x 162 mm, rackless in y, traveling range 76 mm x 50 mm, object guide with spring lever for two specimens, coaxial stage drive on the right
Focusing drive	Coaxial coarse and fine focusing drives Coarse drive: travel range 30 mm Fine drive: Resolution 0.002 mm Left-side coarse drive with friction control Right-side coarse drive with flat knob for optimised operability
Condenser	NA1.25 with aperture diaphragm, centerable
Illumination (transmitted light)	White-light LED (3 W) with adjustable colour temperature and „light memory“ function
Illumination (incident light)	LED incident-light fluorescence illuminator (Mykoval) Excitation wavelength 365 nm
Power supply	100 … 230 V AC, 50 … 60 Hz (table power pack) Fluorescence illuminator with supply cable
Optional accessories	Auxiliary microscope for phase contrast, darkfield slider, colour filters
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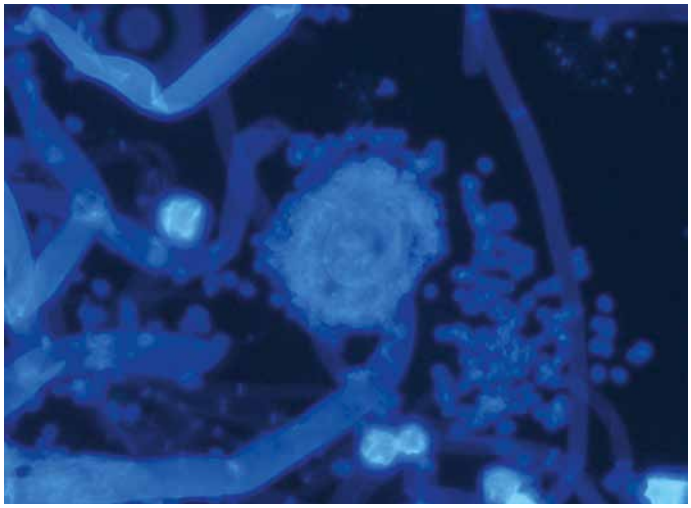

Mould
(Aspergillus spp.),
Mykoval,
objective 40x

Medicus pro
Myko

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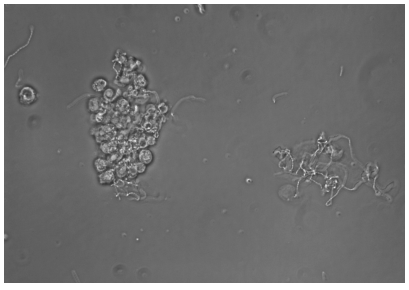
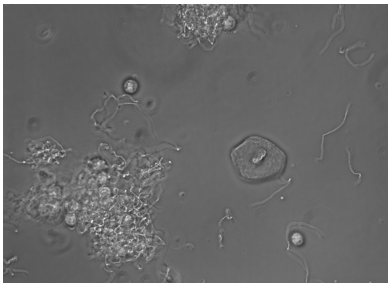
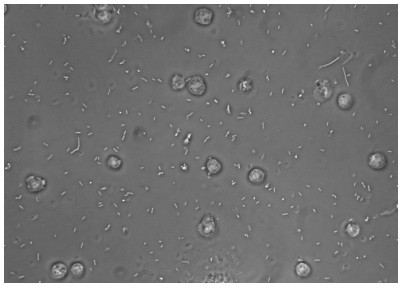
Simple and reliable examination of urine sediments

for urological practices



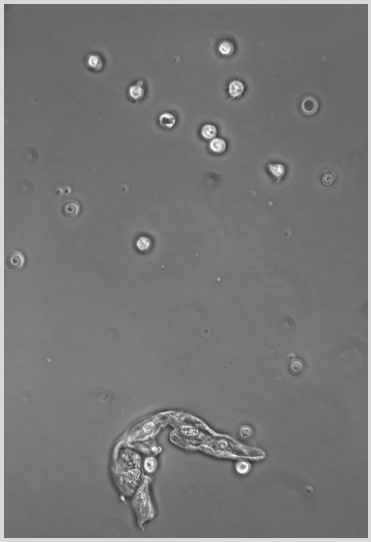




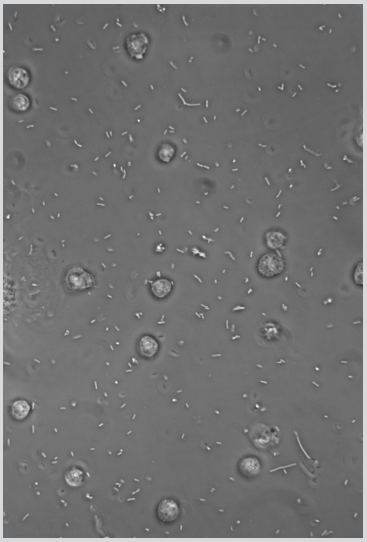
Routine phase contrast microscopy with the medicus pro PH

Simple and reliable examination of urine sediments

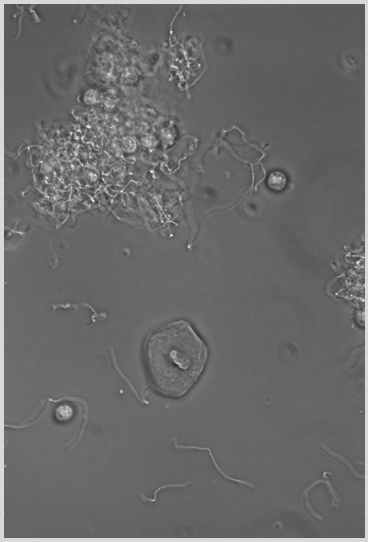
Urologists regularly examine urine samples on their solid constituents, for example, on the presence of erythrocytes, leukocytes or even crystalline structures. The results point the physician to possible diseases of kidneys, the bladder or the ureter. Also, the examination on bacteria allows the microbiological assessment of the urine. For an uncomplicated examination without the need for staining protocols, a phase contrast microscope is required. In the first step, the concentration of a midstream urine sample is increased via centrifugation and subsequently discarding some of the excessive liquid. Then, one drop of this sample is placed directly on a microscope slide, covered with a cover slip and examined with a phase contrast microscope. The images below show typical microscopic results.



Leukocytes, leukocyte cast, erythrocytes



Leukocytes, bacteria



Leukocytes, bacteria, amorphous urate crystals, epithelium cell

Benefits: medicus pro PH-B with phase contrast:

- Visualisation of low-contrast sample constituents
- High-power LED illumination with adjustable colour temperature and "light memory"
- Simple switching between brightfield and phase contrast
- Binocular tube with ergonomic viewing angle for fatigue-free operation
- Image documentation with optional accessories (trinocular tube, cameras)
- Various accessories (green filter, immersion oil, dust cover, ...)

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