From Eye to Insight

Leica
MICROSYSTEMS

# POWER UP ROUTINES WITH EFFICIENCY AND COMFORT

Visoria B laboratory microscope

# VISORIA B LABORATORY MICROSCOPE

Experience enhanced efficiency and comfort in your daily microscopy routine. The Visoria B laboratory microscope is for applications performed in life science and clinical laboratories.

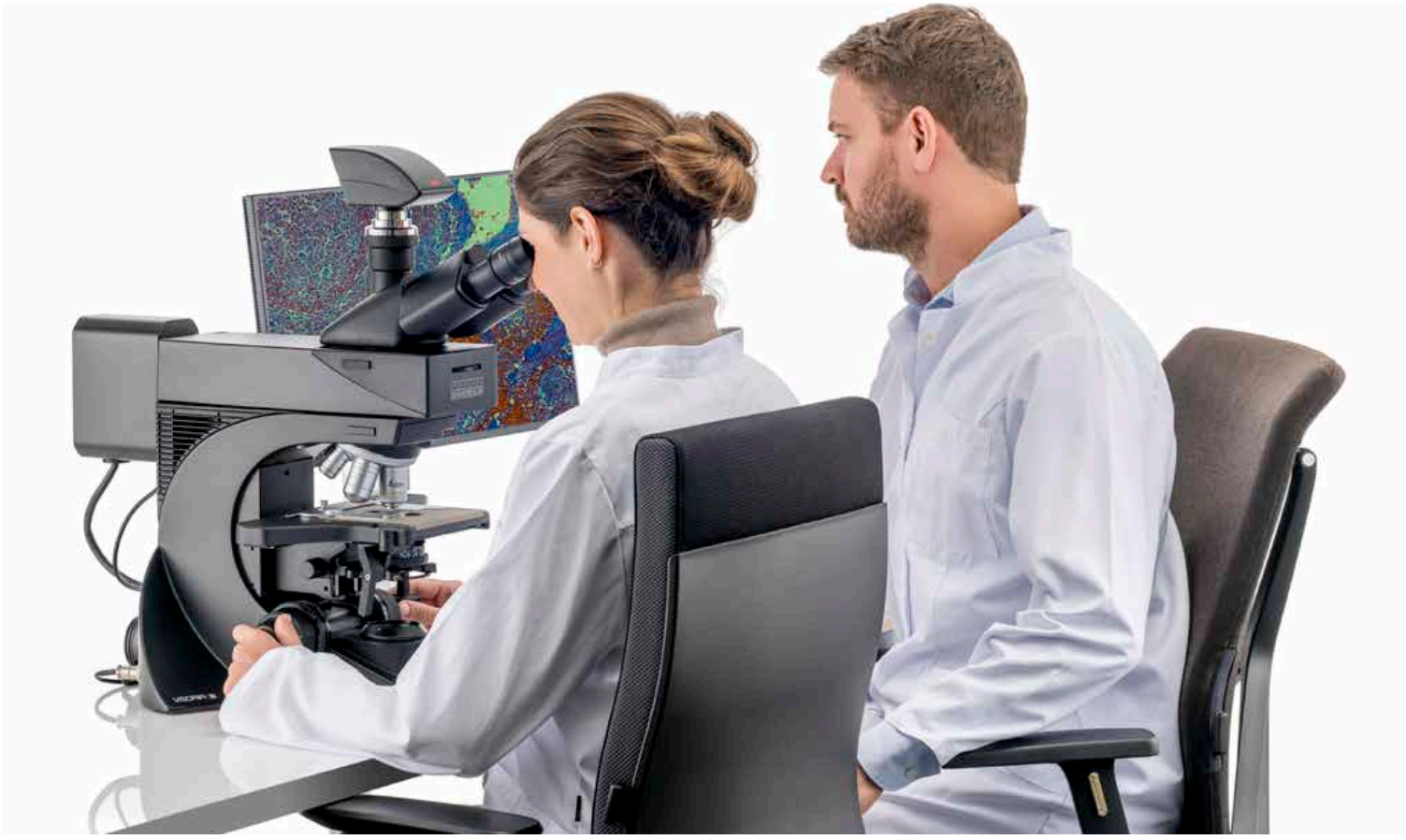
Streamline your workflows with encoded functions, optimized light settings, and other microscope features. You can also be more comfortable and minimize strain thanks to the microscope's ergonomic design.

# VISORIA B DIGITAL LABORATORY MICROSCOPE

The Visoria B digital laboratory microscope without eyepieces offers a number of practical benefits.

**Work without eyepieces by going digital**

- Work in a comfortable and relaxed position by viewing images directly on a tablet.
- Visualize and document your work steps quickly and discuss image results easily with your colleagues.
- Save space on your workbench without the need for a computer.

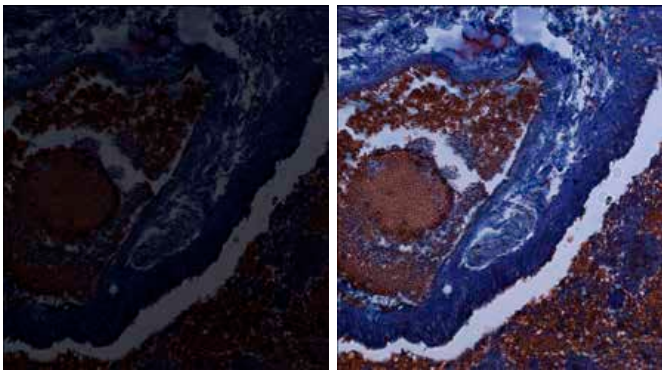


# EFFICIENCY THROUGH ENCODED FUNCTIONS

Increase the efficiency of your routine microscopy tasks. Save valuable time with simplified documentation and encoded microscope functionality, allowing you to focus on your specimen.

**Save time with optimized light settings**

Spend more time viewing and examining specimens with Visoria B. If you change the microscope's magnification or contrast method, there is no need to manually adjust the brightness thanks to the light management function. The illumination settings are automatically applied thanks to the microscope's encoding.



Observe specimens with optimal illumination without the need to adjust the microscope's light settings.

**Simplify your documentation**

You can quickly capture sample details with a press of a button while keeping your eyes on the image. The button for image acquisition is easily accessible on the Visoria B microscope stand.

When you store an image for documentation, selected system settings are automatically saved along with the meta data of the image.

The scale bar is automatically adjusted and added to the image which increases efficiency and saves you valuable time.


Save time and effort by snapping your image with a press of a button on the microscope stand.

**Operate your microscope with ease**

Perform daily routines rapidly and reliably thanks to the intuitive operation of Visoria B.

- Easily find the appropriate aperture for each objective with color coding.
- Protect your specimens and objectives from accidental damage with the built-in focus stop.
- For finer focus at higher magnification, use the three-gear focusing system - coarse, medium, and fine.

Additionally, Visoria B offers a specimen protection mode that automatically switches off the illumination after you acquire an image.

The aperture diaphragm's scale on the condenser has color markings matching the objective color codes.

# MORE COMFORT WITH ERGONOMICS

Work with a comfortable posture by taking advantage of the symmetrical positioning of controls and ergonomic accessories. These features help reduce neck and back strain, even during extended hours at the microscope.

**Stay comfortable while working**

Visoria B adapts to your needs, allowing a proper posture and reducing the risk of neck and back strain during long hours at the microscope.

Work comfortably with aligned shoulders and ergonomic hand and arm positioning thanks to the symmetrical layout and height adjustment of the focus and stage control knobs. You can operate Visoria B with just one hand.

Easily switch between right- and left-handed operation, making it especially beneficial when you share the microscope with other users.

Users can maintain a comfortable position while working with Visoria B.

**Adapt your microscope with ergo accessories**

You can maintain an upright posture thanks to the adaptability of Visoria B. Choose from a range of ergonomic accessories to suit your needs.

- **Ergonomic tubes:** Choose the 15° ergonomic tubes or adjustable VarioTubes (0–35° tilt) for a relaxed head position and flexible viewing angles.
- **Ergonomic modules:** Insert ErgoModules below the tube to adjust the eyepiece height for a comfortable sitting posture.
- **Ergonomic lift:** The optional ErgoLift enables easy height adjustments of the microscope.

Flexibly adapt the eyepiece viewing angle and height as well as the overall microscope height.

**Reduce strain with fewer repetitive motions**

Need to spend extended hours working at your microscope? Reduce the risk of discomfort and repetitive strain injury with Visoria B. Minimize repetitive movements by adjusting the height and torque of the stage and focus control.

The XY stage position and focus knobs are easily accessible and adjustable with one hand.

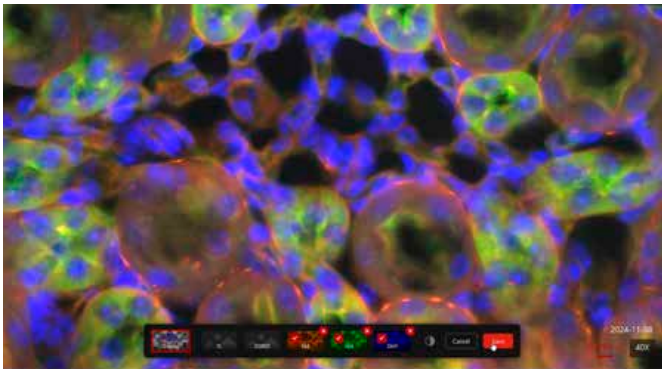
# POWERED BY THE ENERSIGHT SOFTWARE PLATFORM

Simplify and streamline your workflow with the Visoria B laboratory microscope and Enersight software platform. It helps you compare, measure, and share data seamlessly with a single intuitive interface.

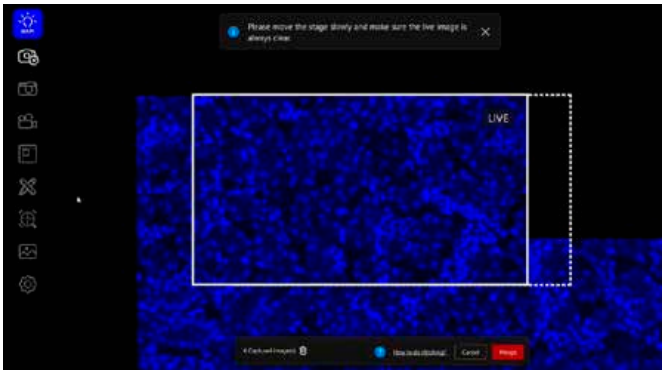
Visoria B laboratory microscope with K3C camera and Enersight software.

**Key advantages:**

- Optimize images by automatic correction of shading due to uneven illumination.
- Get high-quality images with optimal illumination and camera parameters by using the Quick Brightness function.
- Acquire sharp images with extended depth of field (EDOF).
- Observe specimens with a larger field of view and higher resolution using the XY Stitching with Manual Stage function.
- Achieve insightful overlays by combining images from up to four fluorescence channels.
- Gain a better understanding of specimens by merging multiple images from different contrast methods, such as brightfield and fluorescence.



Visualize multiple targets within a single sample for a holistic view of tissue morphology and pathology using fluorescence.




A larger area of a specimen with higher resolution can be observed using the XY stitching function.

# LIFE SCIENCE AND CLINICAL APPLICATIONS

**Examine specimens with various contrast methods**

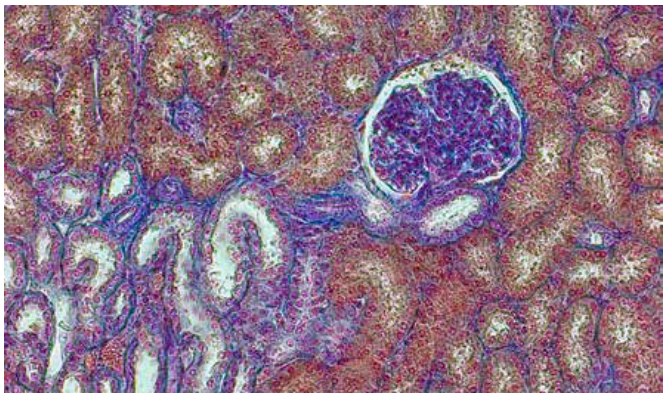
Efficiently visualize and analyze your specimen using various contrast methods with the Visoria B laboratory microscope. You can reveal sub-cellular structures in tissues and specimens with brightfield, darkfield, phase contrast, DIC, and four-color fluorescence.

Visoria B can be used for various types of life science and clinical studies, including human and animal histology, plant anatomy, and pathology examinations.

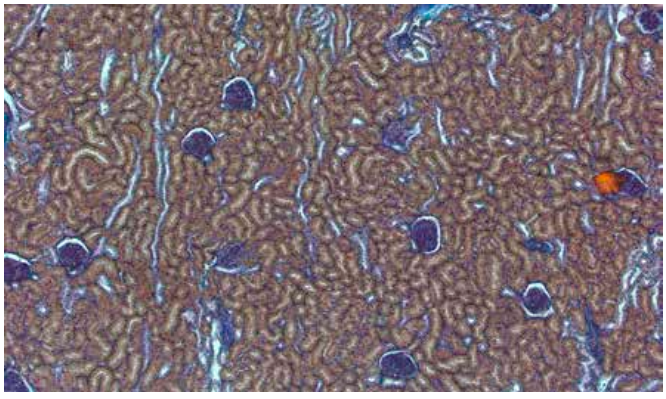
**Histology**

Histological studies can be greatly enhanced with Visoria B. It allows researchers to examine tissue sections with clarity and contrast, ensuring precise analysis of cellular structures.

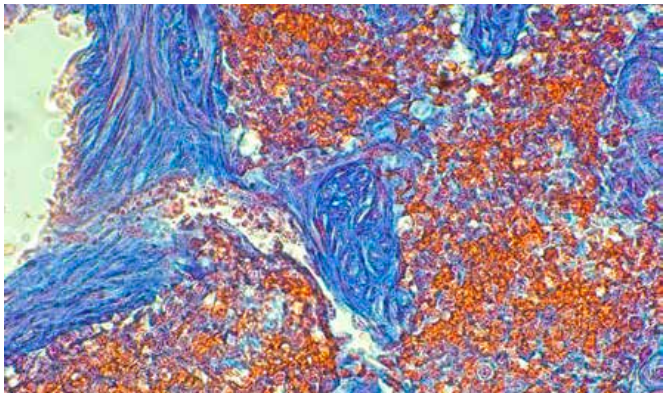
When used for Hematoxylin and Eosin (H&E) staining applications, Visoria B provides clear and detailed visualization of tissue morphology, essential for diagnostic pathology.



Human kidney, 20x



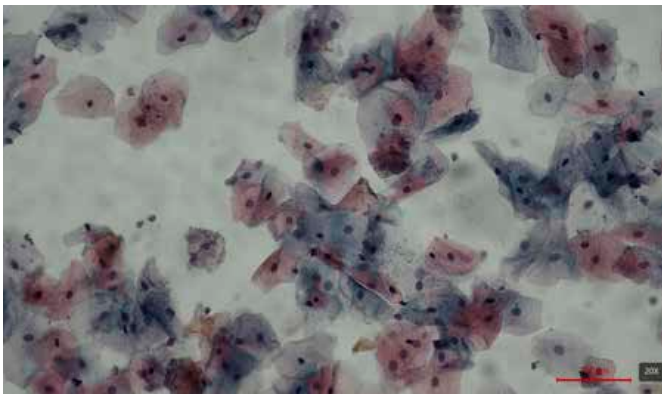
Human kidney, 5x



Human spleen, 40x

### Cytopathology

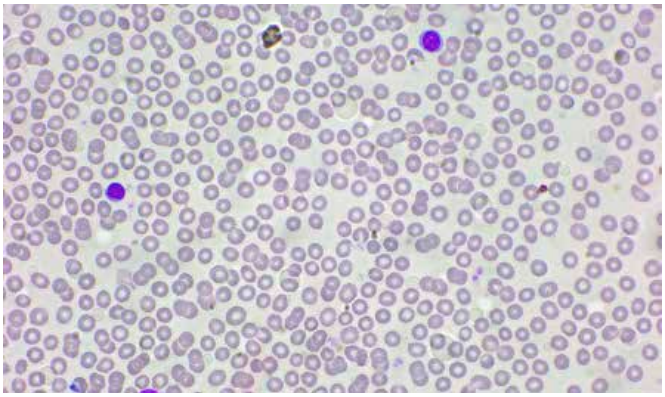
Examine individual cells or clusters taken from a tissue sample to identify cancerous cells using Visoria B.



Pap smear, 20x

### Hematopathology

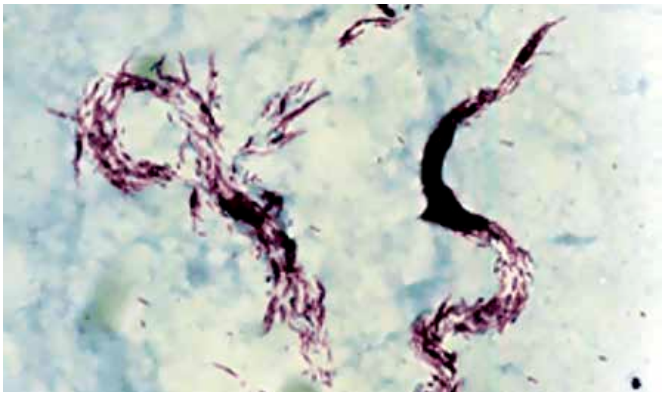
Detailed examination of blood cells and bone marrow to detect blood-related disorders or abnormalities, aiding the accurate diagnosis of diseases.



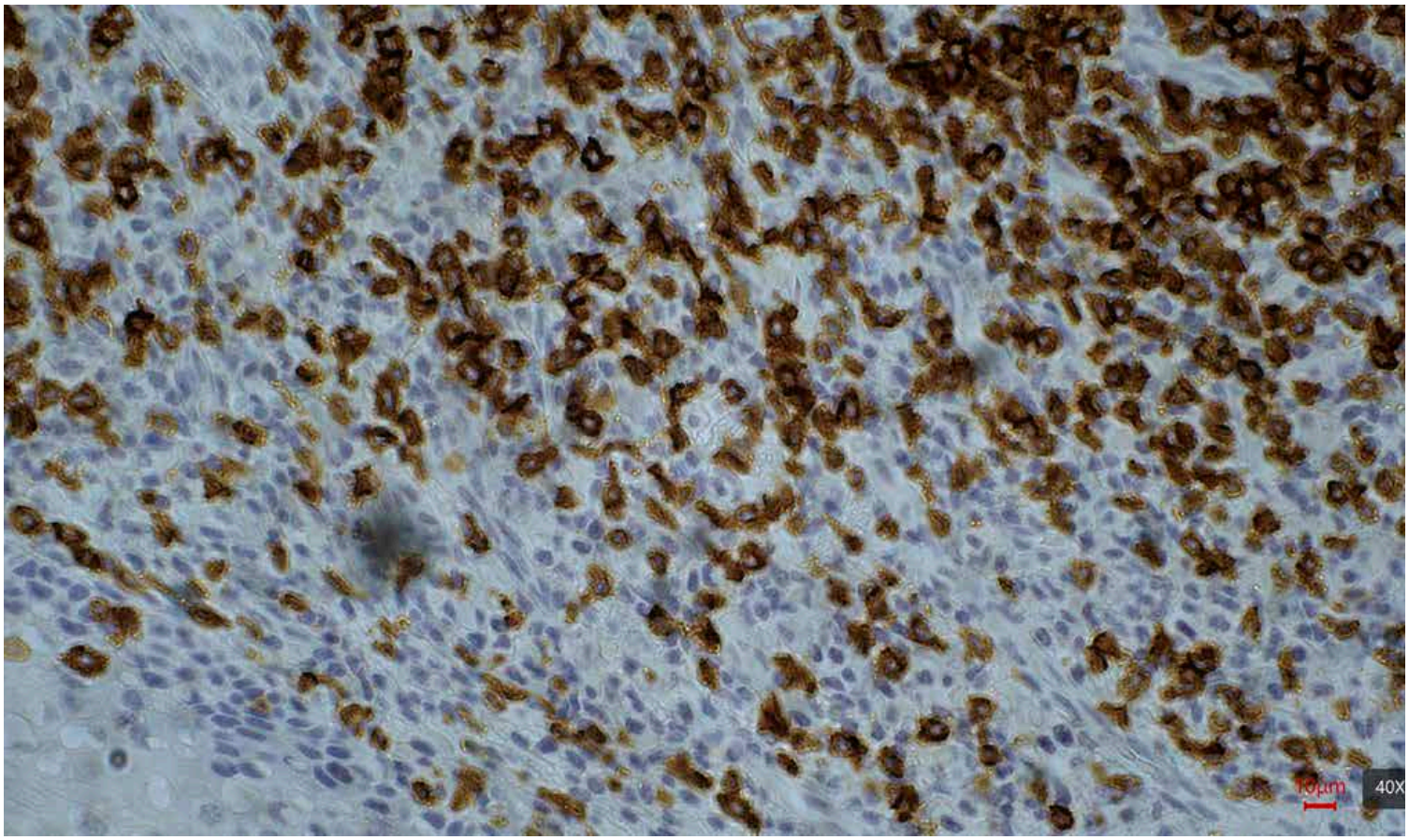
Blood smear, 40x

### Clinical microbiology

Examine biological specimens to detect the presence of microscopic organisms like bacteria, viruses, fungi, and parasites.

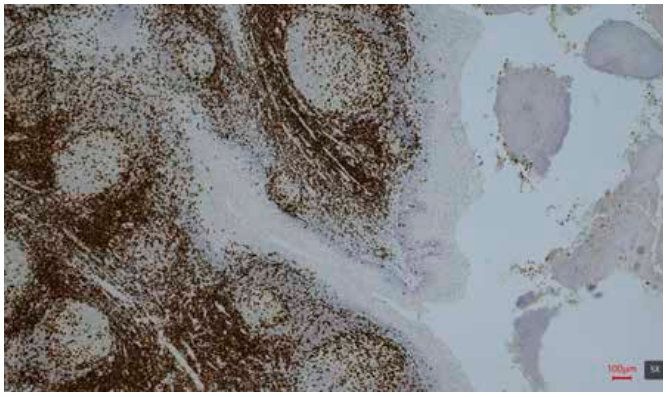


Mycobacterium (acid-fast stained) causing tuberculosis

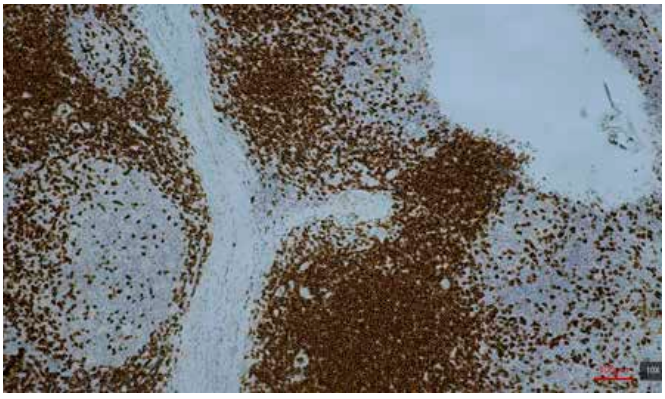



**Immunohistochemistry (IHC)**

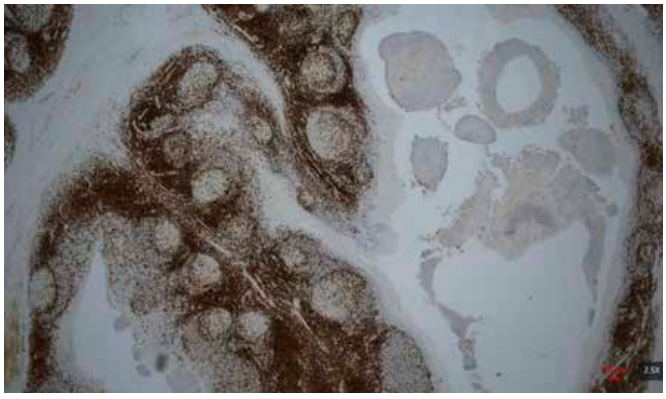
Visoria B excels in IHC applications, enabling the detection and localization of specific antigens within tissue sections. This capability is crucial for understanding protein expression and distribution concerning various diseases.



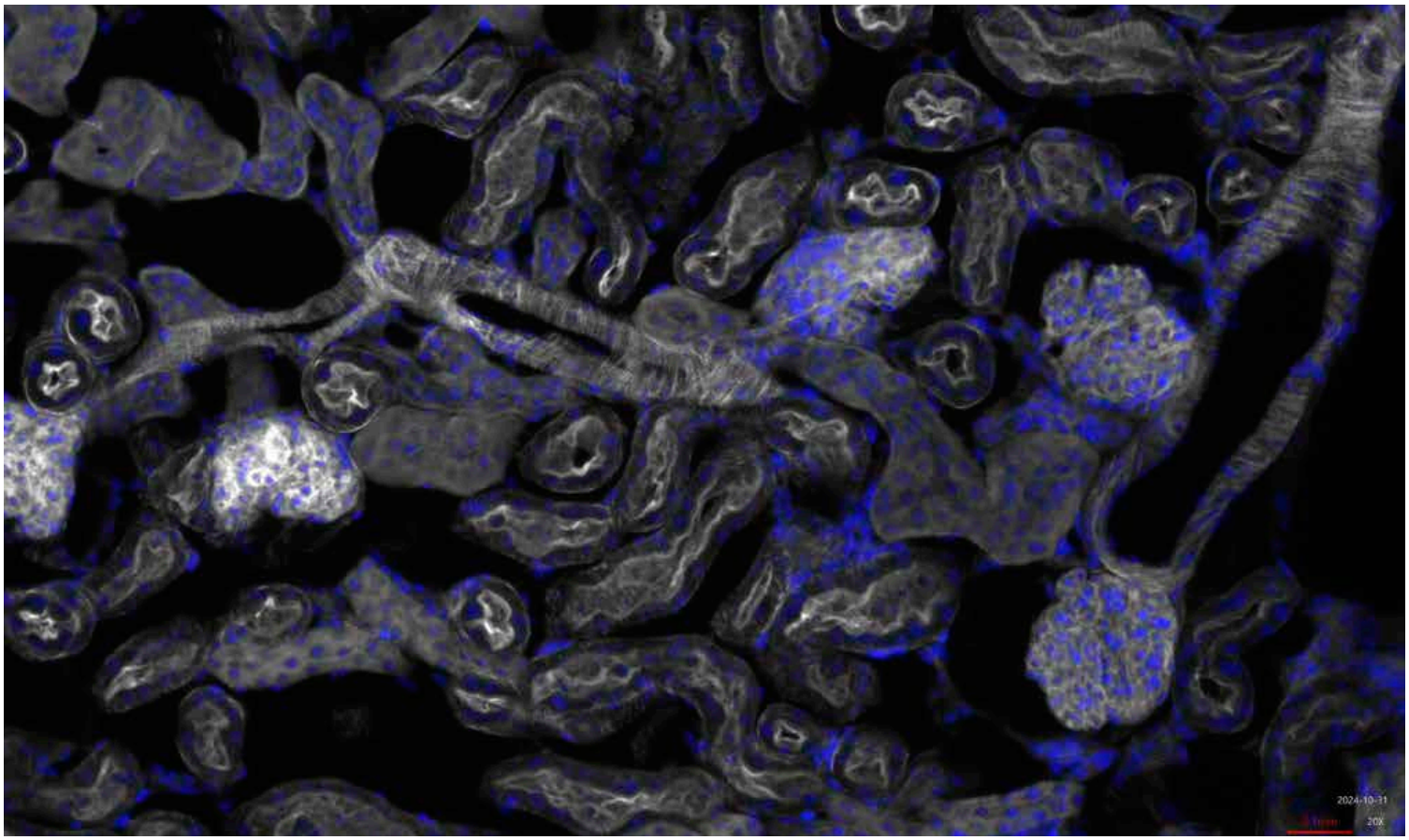
Mouse kidney, 5x



Mouse kidney, 10x

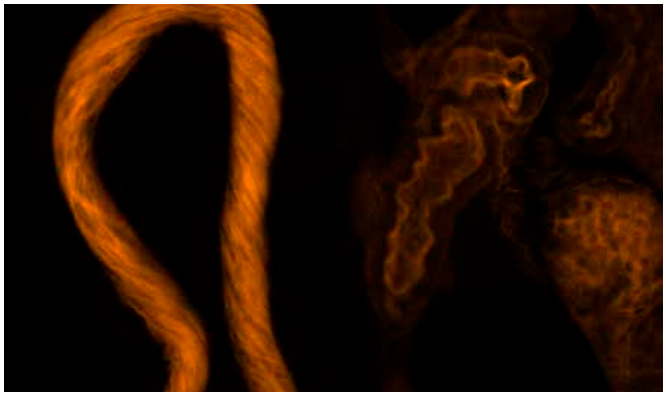


Mouse kidney, 2.5x

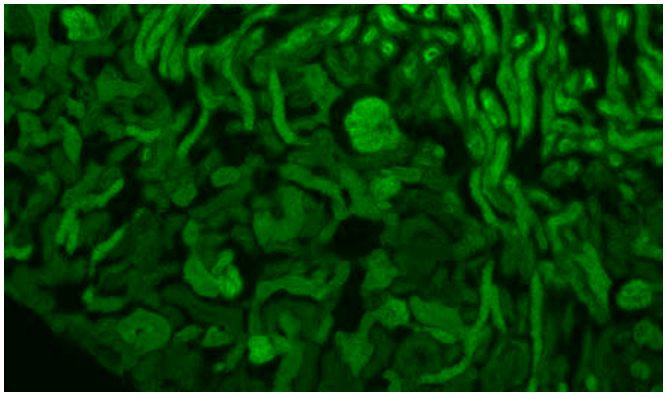


**Immunofluorescence**

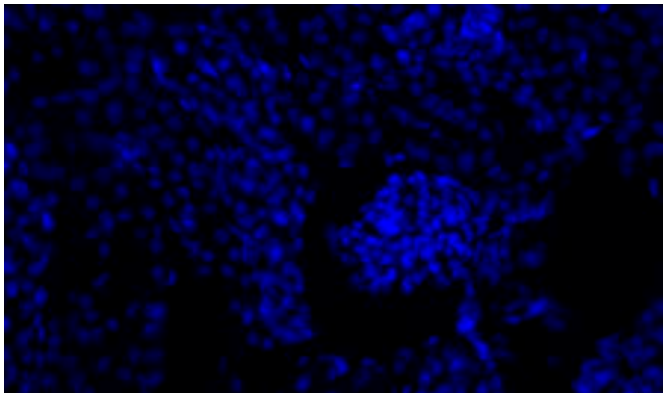
Visoria B is suitable for immunofluorescence techniques. It offers high-resolution imaging of fluorescently labeled specimens, which aids in studying the presence and behavior of biomolecules within cells and tissues.



Mouse kidney, 40x



Mouse kidney, 10x



Mouse kidney, 40x

# MADE FOR CLINICAL LABORATORIES

Visoria B is used for various clinical laboratory applications. It is also certified for in-vitro-diagnostics (IVD).

**Hygienic lab environment**

Maintain a clean, hygienic work environment and reduce the risk of spreading germs thanks to the antimicrobial, silver-treated microscope surfaces, according to ISO 22196.

**Compatible with TWAIN**

TWAIN is a protocol that enables communication between software and selected Leica microscope cameras. It allows you to process images with your preferred software later on.

Take advantage of your camera's TWAIN capability to control the camera, acquire images, and transfer image data to various repositories for analysis and archiving. You can easily store images to your Laboratory or Hospital Information Management System.

## Specifications Visoria B

| | |
|---|---|
| **Microscope** | |
| Size and weight | Length: 410 mm, 456 mm (with fluorescence lamphouse), width: 331 mm, height: 505 mm, approx. 18 kg (depending on configuration) |
| Stand | Illumination toggle buttons with status indicator, image capture button, antimicrobial surface with AgTreat according to ISO 22196 |
| **Optics** | |
| Nosepiece | Encoded 6x (M25) |
| Eyepieces (FOV) | 20 / 22 / 25 mm |
| Tubes | Wide range of standard, ergonomic and phototubes with different beam splitters available |
| Digital version | Digital version with 10" screen / tablet |
| Ergonomic accessories | Wide range of ergonomic accessories available (ErgoTubes, ErgoLift, ErgoModules) |
| Encoded illumination management | IL and TL: High-power white LED, encoded 4-color fluorescence illumination: emission wavelengths: UV 370 / 12 nm, B 465 / 20 nm, G 546 / 82 nm, R 624 / 15 nm, further external light sources on request (non-encoded) |
| Fluorescence light axis | Optional |
| Incident light (IL) | Methods: Brightfield, fluorescence, DIC, qualitative polarization |
| Transmitted light axis | Manual, fixed and flip-top condenser operation with color-coded diaphragm assistant |
| Transmitted light (TL) | Methods: Brightfield, darkfield, phase contrast, DIC, qualitative polarization |
| **Operation** | |
| Stage | Manual XY stage with ceramic plate, additional manual xy stages available, 1-specimen or 2-specimen holder |
| Stage control | Left-, right-handed stage, torque-adjustable handle |
| Focus drive | Height-adjustable focus knobs, 19 mm travel range, maximum 28 mm total stage stroke depending on stage and condenser type, 2-gear focus drive (coarse / fine) with 1 mm scale, 3-gear focus drive (coarse / medium / fine) with 140, 4 and 1 µm scale, torque adjustment, and adjustable upper focus-stop |
| **Accessories** | |
| Analyzer | Fixed, 180°, 360° |
| Polarizer | Fixed and rotatable |
| **General specifications** | |
| Supply voltage | 100–240 V AC, 50 / 60 Hz, power consumption max. 15 W |
| Ambient conditions | 15–35°C, relative humidity max. 80% up to 30°C (non-condensing) |

CONNECT
WITH US!

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