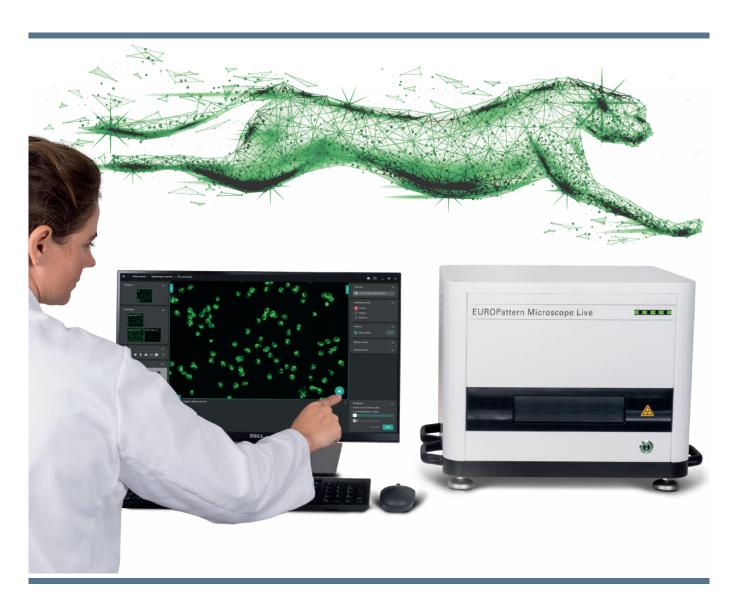


EUROPattern Microscope Live

Ultrafast computer-aided immunofluorescence microscopy



- Fully automated image recording and state-of-the-art result evaluation on the screen the end of the dark chamber
- Recording of high-quality immunofluorescence images in only two seconds
- Automated IIFT pattern recognition and calculation of the antibody titer based on deep learning/deep convolutional neural networks
- Security and traceability thanks to automated identification of slides by means of matrix codes
- Intuitive live microscopy with multi-touch navigation and zooming directly on the computer screen
- Simple operation and directional data exchange with the LIS and other automated laboratory devices via EUROLabOffice 4.0

User-friendly microscopy



Compact device with lightproof housing – suited for all spatial and light conditions

- Capacity for 5 slides with up to 10 reaction fields
- Matrix code reader for slide recognition providing full traceability
- Automated image acquisition in record time due to ultrafast autofocussing based on a novel laser focussing technology
- Compact design with only one objective (20x) for all substrates
- High-resolution camera for high-definition images

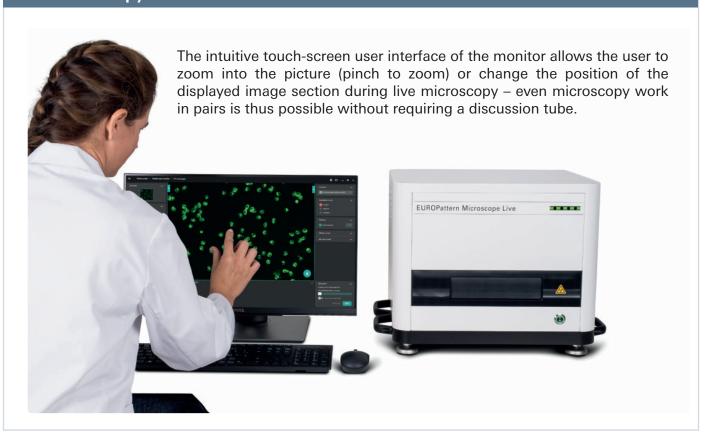


Fluorescence standardisation

- Constant and standardised fluorescence signals for all devices by means of an integrated fluorescence standard
- Unique automated calibration of the microscope for comparability between results from different devices



Live microscopy

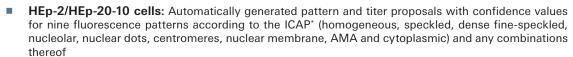


EUROIMMUN

Supporting IIFT evaluation with the EUROPattern Classifier

The EUROPattern Classifier is a software compatible with EUROLabOffice 4.0 that automatically generates a result proposal (including titer calculation) for a constantly growing number of substrates. Its deep convolutional neural networks, a process of artificial intelligence, were intensively trained during the development of the software. This enables the algorithm to classify fluorescence patterns reliably and quickly. All data obtained for the substrates and dilutions are consolidated into one result proposal for each patient.

ANA diagnostics





 Crithidia luciliae: Automated positive/negative classification and titer proposals based on the specific kinetoplast fluorescence for the detection of anti-dsDNA antibodies

ANCA diagnostics

- **Granulocytes:** Automatically generated pattern and titer proposals with confidence values for the fluorescence patterns pANCA, cANCA and atypical ANCA
- HEp-2 cells + granulocytes (EOH): The combination BIOCHIP is used for the targeted differentiation of ANA and cytoplasmic antibodies (result is issued as ANA interference)
- EUROPLUS antigen dots: Automated positive/negative classification of the monospecific antigen fluorescence for confirmation and differentiation of specific diseases from the AAV range (GPA and MPA)

Diagnostics based on antigen-expressing cells

- Neurology: Automated positive/negative classification and titer proposal with confidence values for different antigens, e.g. AMPA 1/2, NMDAR, GABAR B1/B2, LGI1, CASPR2, DPPX, aquaporin-4 and MOG
- Nephrology: Automated positive/negative classification and titer proposal with confidence values for the antigens PLA2R and THSD7A

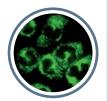
Diagnostics of autoimmune liver diseases

- Liver (rat): Automated positive/negative classification for relevant ANA and identification of anti-LKM-like patterns ("LKM-like", is given as "anti-LKM" pattern after a confirmatory result on kidney tissue) to support the diagnosis of autoimmune hepatitis types 1 and 2
- Kidney (rat): Automated positive/negative classification for AMA, specific for primary biliary cholangitis, and identification of anti-LKM-like patterns ("LKM-like", is given as "anti-LKM" pattern after a confirmatory result on liver tissue; suspected autoimmune hepatitis type 2)
- Stomach (rat): Automated positive/negative classification for ASMA
- VSM47 cells (rat): Automated positive/negative classification for microfilamentous (MF) fluorescence patterns to support the diagnosis of autoimmune hepatitis type 1

Diagnostics of autoimmune gluten-sensitive enteropathy (coeliac disease)

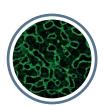
- Liver (monkey) IgA: Automated positive/negative classification for antibodies against endomysium (filamentous linings of the intralobular sinusoids) to support the diagnosis of gluten-sensitive enteropathy
- Oesophagus (monkey) IgA: Automated positive/negative classification for antibodies against endomysium (lamina muscularis) to support the diagnosis of gluten-sensitive enteropathy









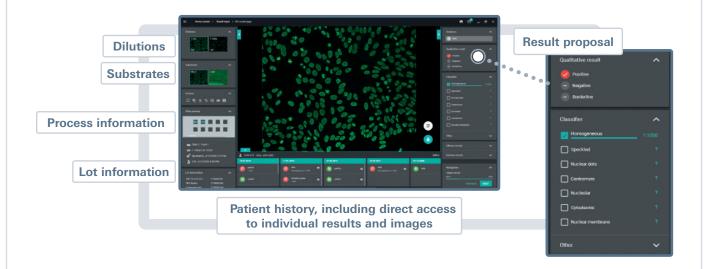




Intelligent data management with EUROLabOffice 4.0

The bidirectional communication between the EUROPattern Microscope Live and the LIS is provided by the laboratory management software EUROLabOffice 4.0. Due to its complete integration in the laboratory, the user-friendly middleware enables secure, fast and traceable data exchange between different workstations and instruments as well as different locations.

All information is clearly presented in the results window. This complete view on the patient, including detailed patient history, lot and process information, dilutions and substrates as well as the automatically generated pattern and titer suggestions, enables fast and reliable result evaluation.



Scope of delivery

- EUROPattern Microscope Live (incl. camera, cLED, DataMatrix code reader, 20x objective)
- PC system, incl. control software for the EUROPattern Microscope Live
- High-resolution multi-touch monitor
- Two slide carriers for 5 slides with up to 10 reaction fields
- EUROPattern Classifier pattern recognition and result entry software
- EUROLabOffice 4.0

Technical data

- Width x depth x height: approx. 40.5 cm x 53 cm x 39 cm
- Weight: approx. 45 kg
- Power supply: 100 240 V AC, 60 W
- Integrated light source for fluorescence microscopy (cLED)
- Constant excitation light source (460–490 nm)



Subject to changes

Further information on EUROPattern Microscope Live: www.euroimmun.com

Regulatory status of the products must be verified for the user's individual jurisdiction. Please contact your country representative for product availability