



*Inverted trinocular LED fluorescence microscope, B, G & UV filter set, IOS*

|                                               |                                   |                                               |  |
|-----------------------------------------------|-----------------------------------|-----------------------------------------------|--|
| <b>Observation Method - Transmitted Light</b> | Brightfield                       | Yes                                           |  |
|                                               | Phase contrast (Positive type)    | Yes                                           |  |
|                                               | Darkfield                         | Yes                                           |  |
| <b>Observation Method - Incident Light</b>    | Fluorescence                      | Yes                                           |  |
| <b>Main Body</b>                              | Type                              | Inverted                                      |  |
|                                               | Construction material             | Aluminum die-cast                             |  |
| <b>Head</b>                                   | Type                              | Trinocular (Siedentopf)                       |  |
|                                               | Split ratio                       | 100/0 - 0/100                                 |  |
|                                               | Inclination                       | 45°                                           |  |
|                                               | Interpupillary distance (mm)      | 50-75                                         |  |
|                                               | Fixing screw for eyepieces        | Yes                                           |  |
| <b>Eyepieces</b>                              | Field number (mm)                 | 24                                            |  |
|                                               | Magnification                     | 10x                                           |  |
|                                               | Planar type                       | Yes                                           |  |
|                                               | Micrometric scale                 | As optional                                   |  |
|                                               | Diameter of micrometer glass (mm) | 26                                            |  |
|                                               | High eyepoint (for glass wearers) | Yes                                           |  |
|                                               | Dioptric adjustment               | Yes                                           |  |
|                                               | Rubber cup                        | Yes                                           |  |
|                                               | Retractable protections           | Yes                                           |  |
| <b>Nosepiece</b>                              | Positions                         | Quintuple                                     |  |
|                                               | Reversed                          | Yes                                           |  |
|                                               | Bi-directional                    | Yes                                           |  |
|                                               | Rotation on ball bearings         | Yes                                           |  |
|                                               | Objective thread                  | RMS                                           |  |
| <b>Objectives</b>                             | Optical system                    | ∞                                             |  |
|                                               | Anti-fungus treatment             | Yes                                           |  |
|                                               | Parfocal distance (mm)            | 45                                            |  |
|                                               | Standard magnifications           | 40x-600x                                      |  |
|                                               | Configurable objectives           | IOS LWD W-PLAN<br>4x/0.13, W.D. 10.4 mm       |  |
|                                               |                                   | IOS LWD W-PLAN<br>40x/0.60, W.D. 3.1 mm       |  |
|                                               |                                   | IOS LWD W-PLAN<br>60x/0.70, W.D. 1.7 mm       |  |
|                                               |                                   | IOS LWD W-PLAN PH<br>4x/0.13, W.D. 10.4 mm    |  |
|                                               |                                   | IOS LWD W-PLAN PH<br>10x/0.25, W.D. 7.3 mm    |  |
|                                               |                                   | IOS LWD W-PLAN PH<br>20x/0.40, W.D. 6.8 mm    |  |
|                                               |                                   | IOS LWD W-PLAN PH<br>40x/0.65, W.D. 3 mm      |  |
|                                               |                                   | IOS LWD U-PLAN F<br>4x/0.13, W.D. 18.52 mm    |  |
|                                               |                                   | IOS LWD U-PLAN F<br>10x/0.30, W.D. 7.11 mm    |  |
|                                               |                                   | IOS LWD U-PLAN F<br>20x/0.45, W.D. 5.91 mm    |  |
|                                               |                                   | IOS LWD U-PLAN F<br>40x/0.65, W.D. 1.61 mm    |  |
|                                               |                                   | IOS LWD U-PLAN F<br>60x/0.75, W.D. 1.04 mm    |  |
|                                               |                                   | IOS LWD U-PLAN F PH<br>20x/0.45, W.D. 5.91 mm |  |
|                                               |                                   | IOS LWD U-PLAN F PH<br>40x/0.65, W.D. 1.61 mm |  |

|                                                  |                                              |                                                                  |
|--------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|
| <b>Stage</b>                                     | Type                                         | Fixed + Attachable mechanical stage                              |
|                                                  | Dimensions (mm)                              | 215x250 (fixed stage)<br>290x250 (with mechanical stage mounted) |
|                                                  | Moving mechanism                             | Rack and pinion                                                  |
|                                                  | Moving range (mm)                            | 120x80                                                           |
|                                                  | Material                                     | Anti-scratch painting                                            |
|                                                  | Glass round insert                           | Yes                                                              |
|                                                  | Metal round insert                           | Yes                                                              |
|                                                  | Holder for Petri dish (mm)                   | 38, 54, 65                                                       |
|                                                  | Holder for Terasaki plate                    | 96 well                                                          |
|                                                  | Holder for 1 slide                           | Yes                                                              |
|                                                  | Holder for 2 slides                          | As optional                                                      |
|                                                  | Holder for Utermöhl chamber                  | As optional                                                      |
| <b>Condenser - Single Position</b>               | Type                                         | Abbe                                                             |
|                                                  | Removable                                    | Yes                                                              |
|                                                  | Numerical aperture (N.A.)                    | 0.50                                                             |
|                                                  | Diaphragms                                   | Iris                                                             |
|                                                  | Slider for phase contrast                    | BF, 4x/10x, 20x/40x positions                                    |
|                                                  | Slider for darkfield (dry)                   | Yes                                                              |
|                                                  | Long working distance                        | Yes                                                              |
|                                                  | Working distance (for LWD) (mm)              | 28                                                               |
|                                                  | Extendable working distance (for LWD) (mm)   | up to 220                                                        |
|                                                  | Centrable                                    | Yes                                                              |
|                                                  | Focusable                                    | By rack and pinion                                               |
| <b>Focusing System</b>                           | Type                                         | Coaxial coarse & fine                                            |
|                                                  | Fine total travel (per single rotation) (mm) | 0.2                                                              |
|                                                  | Fine graduations                             | 100                                                              |
|                                                  | Fine resolution (µm)                         | 2                                                                |
|                                                  | Upper stop to prevent contact                | Yes                                                              |
|                                                  | Adjustable tension                           | Yes                                                              |
| <b>Transmitted Illumination</b>                  | Kohler illumination                          | Full                                                             |
|                                                  | Type                                         | X-LED                                                            |
|                                                  | X-LED type                                   | X-LED8                                                           |
|                                                  | Light source power (W)                       | 8                                                                |
|                                                  | Brightness control                           | Manual                                                           |
|                                                  | Lifetime (hours)                             | > 65,000                                                         |
|                                                  | Temperature (K)                              | 6,300                                                            |
|                                                  | Max. required power (W)                      | 13                                                               |
| <b>Power Supply for Transmitted Illumination</b> | Type                                         | External                                                         |
|                                                  | Microscope connector                         | Jack, 2.1 mm                                                     |
|                                                  | Power plug type                              | Multi-plug (EU, UK, US)                                          |
|                                                  | Input voltage                                | 100/240 Vac, 50/60 Hz                                            |
|                                                  | Output voltage                               | 12 Vdc 5 A                                                       |
|                                                  | ECO function                                 | Yes                                                              |
|                                                  | LED indicator                                | Yes                                                              |
| <b>Accessories Included</b>                      | Dust cover                                   | Yes                                                              |
|                                                  | Allen wrench                                 | Yes                                                              |
|                                                  | Centering telescope                          | Yes                                                              |
|                                                  | Green filter                                 | Yes                                                              |
|                                                  | LBD filter                                   | Yes                                                              |
|                                                  | User Manual                                  | Digital version (downloadable)                                   |

|                           |             |     |
|---------------------------|-------------|-----|
| <b>Product Dimensions</b> | Height (mm) | 545 |
|                           | Width (mm)  | 290 |
|                           | Depth (mm)  | 720 |

|                       |      |    |
|-----------------------|------|----|
| <b>Product Weight</b> | (kg) | 13 |
|-----------------------|------|----|

|                                |                                   |                                                                               |
|--------------------------------|-----------------------------------|-------------------------------------------------------------------------------|
| <b>Fluorescence Attachment</b> | Number of positions               | 4                                                                             |
|                                | Blue filter set (included) specs  | Excitation: 450 - 490 nm; Dichroic: 495 nm;<br>Emission: 500 - 550 nm         |
|                                | Green filter set (included) specs | Excitation: 540 - 580 nm; Dichroic: 585 nm;<br>Emission: 608 - 682 nm         |
|                                | UV filter set (included) specs    | Excitation: 340 - 390 nm; Dichroic: 400 nm;<br>Emission: 420LP nm             |
|                                | Filter dimensions                 | Excitation: 25 mm diam.;<br>Dichroic: 36 mm x 25 mm;<br>Emission: 25 mm diam. |
|                                | Filter set selection              | Manual                                                                        |
|                                | LED source insertion              | Motorized                                                                     |
|                                | Field diaphragm                   | Centerable                                                                    |

|                                  |                    |                                                         |
|----------------------------------|--------------------|---------------------------------------------------------|
| <b>Fluorescence Light Source</b> | Light source       | Blue - Green - UV LEDs<br>Optional LED on request       |
|                                  | Watt (W)           | 5                                                       |
|                                  | LED wavelength     | Blue LED: 470 nm<br>Green LED: 560 nm<br>UV LED: 385 nm |
|                                  | Lifetime (hours)   | > 65,000                                                |
|                                  | Brightness control | Yes                                                     |



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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