



*Binocular phase contrast microscope,  
1000x, N-PLAN / W-PLAN objectives, with  
Automatic Light Control*

|                                                   |                                   |                        |
|---------------------------------------------------|-----------------------------------|------------------------|
| <b>Observation Method -<br/>Transmitted Light</b> | Brightfield                       | Yes                    |
|                                                   | Phase contrast (Positive type)    | Yes                    |
|                                                   | Darkfield                         | Yes                    |
|                                                   | Simple polarized light            | As optional            |
| <b>Main Body</b>                                  | Type                              | Upright                |
|                                                   | Construction material             | Aluminum die-cast      |
|                                                   | Transportation handle             | Yes                    |
| <b>Head</b>                                       | Type                              | Binocular (Siedentopf) |
|                                                   | Inclination                       | 30°                    |
|                                                   | 360° rotating                     | Yes                    |
|                                                   | Interpupillary distance (mm)      | 48-75                  |
|                                                   | Dioptric adjustment               | On both tubes          |
|                                                   | Fixing screw for eyepieces        | Yes                    |
|                                                   | Tube inner diameter (mm)          | 23                     |
| <b>Eyepieces</b>                                  | Field number (mm)                 | 20                     |
|                                                   | Magnification                     | 10x                    |
|                                                   | Pointer                           | As optional            |
|                                                   | Micrometric scale                 | As optional            |
|                                                   | Diameter of micrometer glass (mm) | 21                     |
|                                                   | High eyepoint (for glass wearers) | Yes                    |
|                                                   | Rubber cup                        | Yes                    |
| <b>Nosepiece</b>                                  | Positions                         | Quintuple              |
|                                                   | Reversed                          | Yes                    |
|                                                   | Bi-directional                    | Yes                    |
|                                                   | Rotation on ball bearings         | Yes                    |
|                                                   | Objective thread                  | RMS                    |

|            |                         |                                               |
|------------|-------------------------|-----------------------------------------------|
| Objectives | Optical system          | 160                                           |
|            | Anti-fungus treatment   | Yes                                           |
|            | Parfocal distance (mm)  | 45                                            |
|            | Standard magnifications | 40x-1000x                                     |
|            | Type                    | N-PLAN / W-PLAN                               |
|            |                         | N-PLAN<br>4x/0.10, W.D. 15.2 mm               |
|            |                         | W-PLAN PH<br>10x/0.25, W.D. 12.2 mm           |
|            |                         | W-PLAN PH<br>40x/0.65, W.D. 0.37 mm           |
|            |                         | W-PLAN PH<br>100x/1.25 (Oil),<br>W.D. 0.13 mm |

|       |                             |                       |
|-------|-----------------------------|-----------------------|
| Stage | Type                        | Double layer          |
|       | Dimensions (mm)             | 150x139               |
|       | Moving mechanism            | Rackless              |
|       | Moving range (mm)           | 75x33                 |
|       | Material                    | Anti-scratch painting |
|       | Specimen holder             | Yes                   |
|       | Slide number                | 1                     |
|       | X-Y Vernier scale           | Yes                   |
|       | Vernier scale accuracy (mm) | 0.1                   |

|                               |                           |                                                         |
|-------------------------------|---------------------------|---------------------------------------------------------|
| Condenser - Multiple Position | Type                      | Abbe.<br>Brightfield - Phase contrast - Darkfield (dry) |
|                               | Number of positions       | 5 (BF, 10x/20x, 40x, 100x, DF)                          |
|                               | Numerical aperture (N.A.) | 1.25                                                    |
|                               | Removable                 | Yes                                                     |
|                               | Diaphragm                 | Iris                                                    |
|                               | Centrable                 | Yes                                                     |
|                               | Focusable                 | By rack and pinion                                      |

|                 |                                              |                       |
|-----------------|----------------------------------------------|-----------------------|
| Focusing System | Type                                         | Coaxial coarse & fine |
|                 | Coarse total travel (mm)                     | 25                    |
|                 | 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                   |
|                 | Flat knob for ergonomoy                      | Yes                   |

|                          |                         |                          |
|--------------------------|-------------------------|--------------------------|
| Transmitted Illumination | Kohler illumination     | Fixed (full as optional) |
|                          | Type                    | X-LED                    |
|                          | X-LED type              | X-LED3                   |
|                          | Light source power (W)  | 3.6                      |
|                          | Brightness control      | Manual & Automatic (ALC) |
|                          | Lifetime (hours)        | > 65,000                 |
|                          | Temperature (K)         | 6,300                    |
|                          | Max. required power (W) | 6                        |

|                                           |                      |                         |
|-------------------------------------------|----------------------|-------------------------|
| Power Supply for Transmitted Illumination | 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       | 6 Vdc 2.5 A             |

|                      |                         |                                |
|----------------------|-------------------------|--------------------------------|
| Accessories Included | Dust cover              | Yes                            |
|                      | Immersion oil (10ml)    | Yes                            |
|                      | Tension adjustment tool | Yes                            |
|                      | Allen wrench            | Yes                            |
|                      | Centering telescope     | Yes                            |
|                      | Green filter            | Yes                            |
|                      | User Manual             | Digital version (downloadable) |

|                        |  |                                                   |
|------------------------|--|---------------------------------------------------|
| Additional Information |  | External rechargeable battery pack (as optional). |
|------------------------|--|---------------------------------------------------|

|                    |             |     |
|--------------------|-------------|-----|
| Product Dimensions | Height (mm) | 405 |
|                    | Width (mm)  | 235 |
|                    | Depth (mm)  | 370 |

|                |      |     |
|----------------|------|-----|
| Product Weight | (kg) | 7,8 |
|----------------|------|-----|



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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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