



Trinocular phase contrast microscope,  
1000x, N-PLAN / W-PLAN objectives

|                                           |                                   |                         |
|-------------------------------------------|-----------------------------------|-------------------------|
| Observation Method -<br>Transmitted Light | Brightfield                       | Yes                     |
|                                           | Phase contrast (Positive type)    | Yes                     |
|                                           | Darkfield                         | Yes                     |
|                                           | Simple polarized light            | As optional             |
| Main Body                                 | Type                              | Upright                 |
|                                           | Construction material             | Aluminum die-cast       |
|                                           | Trasportation handle              | Yes                     |
| Head                                      | Type                              | Trinocular (Siedentopf) |
|                                           | Split ratio                       | 50/50                   |
|                                           | Inclination                       | 30°                     |
|                                           | 360° rotating                     | Yes                     |
|                                           | Interpupillary distance (mm)      | 48-75                   |
|                                           | Diopter adjustment                | On both tubes           |
|                                           | Fixing screw for eyepieces        | Yes                     |
|                                           | Tube inner diameter (mm)          | 23                      |
| Eyepieces                                 | 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                     |
| Nosepiece                                 | 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 ergonomy                       | 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                   |
|                          | 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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