



*Trinocular brightfield microscope, 1000x,  
IOS N-PLAN objectives*

|   |                                   |                         |
|---|-----------------------------------|-------------------------|
| <b>Observation Method -<br/>Transmitted Light</b> | Brightfield                       | Yes                     |
|   | Phase contrast (Positive type)    | As optional             |
|   | Darkfield                         | As optional             |
|   | Simple polarized light            | As optional             |
| <b>Main Body</b>                                  | Type                              | Upright                 |
|   | Construction material             | Aluminum die-cast       |
|   | Trasportation handle              | Yes                     |
| <b>Head</b>                                       | Type                              | Trinocular (Siedentopf) |
|   | Split ratio                       | 50/50                   |
|   | Inclination                       | 30°                     |
|   | 360° rotating                     | Yes                     |
|   | Interpupillary distance (mm)      | 55-75                   |
|   | Diopter 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                         | Quadruple               |
|   | Reversed                          | Yes                     |
|   | Bi-directional                    | Yes                     |
|   | Rotation on ball bearings         | Yes                     |
|   | Objective thread                  | RMS                     |

|                   |                                     |                       |
|-------------------|-------------------------------------|-----------------------|
| <b>Objectives</b> | Optical system                      | $\infty$              |
|                   | Anti-fungus treatment               | Yes                   |
|                   | Parfocal distance (mm)              | 45                    |
|                   | Standard magnifications             | 40x-1000x             |
|                   | Type                                | IOS N-PLAN            |
|                   |                                     | 4x/0.10, W.D. 16.8 mm |
|                   |                                     | 10x/0.25, W.D. 5.8 mm |
|                   | 40x/0.65, W.D. 0.43 mm              |                       |
|                   | 100x/1.25 (Oil/Water), W.D. 0.13 mm |                       |

|              |                             |                       |
|--------------|-----------------------------|-----------------------|
| <b>Stage</b> | 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                   |

|                                    |  |                    |
|------------------------------------|--|--------------------|
| <b>Condenser - Single Position</b> | Type   | Abbe               |
|                                    | Removable                                      | Yes                |
|                                    | Numerical aperture (N.A.)                      | 1.25               |
|                                    | Magnification scale for simplified positioning | Yes                |
|                                    | Diaphragm                                      | Iris               |
|                                    | Centrable                                      | Yes                |
|                                    | Focusable                                      | By rack and pinion |

|                        |  |                       |
|------------------------|--|-----------------------|
| <b>Focusing System</b> | Type   | Coaxial coarse & fine |
|                        | Coarse total travel (mm)                     | 18                    |
|                        | Fine total travel (per single rotation) (mm) | 0,4                   |
|                        | Fine graduations                             | 100                   |
|                        | Fine resolution ( $\mu\text{m}$ )            | 4                     |
|                        | Upper stop to prevent contact                | Yes                   |
|                        | Adjustable tension                           | Yes                   |

|                                 |                        |          |
|---------------------------------|------------------------|----------|
| <b>Transmitted Illumination</b> | Kohler illumination    | Fixed    |
|                                 | 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                      |          |

|  |                      |                         |
|--|----------------------|-------------------------|
| <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       | 6 Vdc 2.5 A             |

|                             |                         |                                |
|-----------------------------|-------------------------|--------------------------------|
| <b>Accessories Included</b> | Dust cover              | Yes                            |
|                             | Immersion oil (10ml)    | Yes                            |
|                             | Tension adjustment tool | Yes                            |
|                             | User Manual             | Digital version (downloadable) |

|                               |             |  |
|-------------------------------|-------------|--|
| <b>Additional Information</b> |             | Mirror for transmitted light (as optional).<br>External rechargeable battery pack (as optional). |
| <b>Product Dimensions</b>     | Height (mm) | 440  |
|                               | Width (mm)  | 235  |
|                               | Depth (mm)  | 320  |
| <b>Product Weight</b>         | (kg)        | 6.5  |