

# OPTIKA

M I C R O S C O P E S  
I T A L Y



Microscopio Binocular LED  
con Batería Recargable hasta 15 horas  
Modelo: B-159R-PL

## ESPECIFICACIONES:

|   |                                   |                        |
|---|-----------------------------------|------------------------|
| <b>Observation Method - Transmitted Light</b> | Brightfield                       | Yes                    |
|   | Simple polarized light            | As optional            |
| <b>Main Body</b>                              | Type                              | Upright                |
|   | Construction material             | Aluminum die-cast      |
| <b>Head</b>                                   | Type                              | Binocular (Siedentopf) |
|   | Inclination                       | 30°                    |
|   | 360° rotating                     | Yes                    |
|   | Interpupillary distance (mm)      | 48-75                  |
|   | Dioptric adjustment               | On left tube           |
|   | Fixing screw for eyepieces        | Yes                    |
|   | Tube inner diameter (mm)          | 23                     |
| <b>Eyepieces</b>                              | Field number (mm)                 | 18                     |
|   | Magnification                     | 10x                    |
|   | High eyepoint (for glass wearers) | Yes                    |
|   | Pointer                           | As optional            |
|   | Micrometric scale                 | As optional            |
|   | Diameter of micrometer glass (mm) | 20                     |
| <b>Nosepiece</b>                              | Positions                         | Quadruple              |
|   | Bi-directional                    | Yes                    |
|   | Rotation on ball bearings         | Yes                    |
|   | Objective thread                  | RMS                    |
| <b>Objectives</b>                             | Optical system                    | 160                    |
|   | Anti-fungus treatment             | Yes                    |
|   | Parfocal distance (mm)            | 45                     |
|   | Standard magnifications           | 40x-1000x              |
|   | Type                              | N-PLAN                 |
|   | Objectives included               | 4x/0.10, W.D. 15.2 mm  |
|   |                                   | 10x/0.25, W.D. 5.5 mm  |
| 40x/0.65, W.D. 0.45 mm                        |                                   |                        |
| 100x/1.25 (Oil/Water), W.D. 0.13 mm           |                                   |                        |
| <b>Stage</b>                                  | Type                              | Double layer           |
|   | Dimensions (mm)                   | 125x116                |
|   | Moving mechanism                  | Rack and pinion        |
|   | Moving range (mm)                 | 70x30                  |
|   | 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         |
|                                    | Numerical aperture (N.A.) | 1.25         |
|                                    | Diaphragms                | Iris         |
|                                    | Centrable                 | Pre-centered |
|                                    | Focusable                 | By rotation  |

|                        |  |                       |
|------------------------|--|-----------------------|
| <b>Focusing System</b> | Type   | Coaxial coarse & fine |
|                        | Coarse total travel (mm)                     | 16                    |
|                        | 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> | Type                    | X-LED    |
|                                 | X-LED type              | X-LED1   |
|                                 | Light source power (W)  | 1        |
|                                 | Brightness control      | Manual   |
|                                 | Lifetime (hours)        | > 65,000 |
|                                 | Temperature (K)         | 6,300    |
|                                 | Max. required power (W) | 1.5      |

|  |                                   |                         |
|--|-----------------------------------|-------------------------|
| <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                    | 5 Vdc 500 mA            |
|  | LED indicator                     | Yes                     |
|  | Rechargeable batteries            | Yes                     |
|  | Battery type                      | Li-ion (battery pack)   |
|  | Working time of batteries (hours) | 15                      |
| Charging time of batteries (hours)               | 6                                 |                         |

|                             |                         |                                |
|-----------------------------|-------------------------|--------------------------------|
| <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) |
|-------------------------------|--|--|

|                           |             |     |
|---------------------------|-------------|-----|
| <b>Product Dimensions</b> | Height (mm) | 350 |
|                           | Width (mm)  | 170 |
|                           | Depth (mm)  | 320 |

|                       |      |   |
|-----------------------|------|---|
| <b>Product Weight</b> | (kg) | 4 |
|-----------------------|------|---|