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microscopes · metrology · imaging

**Laboratory microscope for routine and research applications.
Dye-cast frame, with high stability and ergonomy, for transmitted light observation.
Version for standard brightfield view.**

Illumination: X-LED⁸ (8W power)

Product Description

As a flagship instrument, B-1000 originates from customer most demanding feedbacks and needs. Its modularity and versatility will allow to find the perfect place in any clinical or basic research laboratory. All controls are easily accessible and comfortable also for extended periods of observation. Highest category of optical equipment among our product range guarantees a sharp and clear view in any situation, while top level mechanical design offers sturdiness and long lifetime.

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MADE IN ITALY

Solid Stand Extra Stability

Completely new design and a die-cast aluminum stand offer solidity and durability, even for the most demanding laboratory use. This new microscope can seamlessly be upgraded with many attachments that extend its field of use.

X-LED White Illumination

X-LED illumination system is based on a pure white high-efficiency LED and a special optics. It guarantees constant color temperature, no heat, and an extreme electrical consumption efficiency. The whole system is pre-aligned and boasts a lifetime of 50,000 hours.

Light under control

Intelligent control of the microscope illumination: the **AUTO-OFF** function automatically switches the light off after a user-selectable time period. **BOOST** gives an extra high level of illumination for light-demanding applications. **AUTO** allows to store an illumination level, and to maintain it throughout the inspection.

Ergonomy

Low position focus and stage controls allow a fast and comfortable operation. Frequently used controls as light intensity adjustment and diaphragm are also placed in the lower part of the stand and enable operation without having to take the eyes off the specimen.

Comfortable Stage

Refined ceramic stage, with a wide working surface and a highly precise XY movement.

High Quality IOS Optical System

Infinity corrected optical system, based on planachromatic, fluorite, and semi apochromatic objectives,

designed to give sharp and clear images, both for the user and the digital camera. Quintuple and sextuple nosepiece give the flexibility to build the optics set that best suits your needs. The system is complete with wide field, high-point eyepieces, with a field number of 24mm.

Ready for Digital Imaging

Range of adapters can accommodate for C-mount digital cameras, as well as reflex cameras. Focus adjustment gives a perfectly clear digital images. Our cameras include specific software for capturing, measuring, marking and storing your pictures. Optika Vision Pro software allows to perform image acquisition, post-processing, measurements and storage of your images. User can save a preset for later work, or even create a multi-focus composition.

Remote Stage Control

The stage can be remote-controlled through a dedicated software: X, Y and Z axes can be moved with a single click. Communication protocol is available for interfacing with custom software, such as automated analysis or auto focus.

X-Y MOTORIZED STAGE Z-AXIS WITH AUTO FOCUS SYSTEM

X-LED benefits

- Powerful pure white LED illumination, ideal for brightfield, darkfield and phase contrast applications.
- Color temperature constant through all the intensity levels. No heat generation, that could damage the specimen.
- Factory pre-centering assures uniform illumination over the field of view, yet providing perfect Koehler alignment.
- Very long lifetime and high power efficiency.

B-1000 BF Specifications	
Eyepieces	Choice of: WF10x/22mm eyepiece (pair) WF10x/24mm eyepiece (pair)
Head	Choice of: Trinocular Head (3 positions) – 100/50-50/100 Binocular ERGO head Trinocular ERGO head – with video/photo attachment
Main Body	Choice of: Main body with focus system and X-LED8 illumination, with manual focus

	Main body with focus system and X-LED8 illumination, with motorized focus
Attachment	Automatic Brightness Control System
Nosepiece	Choice of: Sextuple nosepiece for RMS objectives with DIC slot Sextuple motorized nosepiece for RMS objectives with DIC slot
Objective Sets	Choice of: IOS Plan 4x, 10x, 20x, 40x, 60x, 100x IOS Plan 2x, 4x, 10x, 20x, 40x, 60x IOS Plan 2x, 4x, 10x, 20x, 40x, 100x IOS Semi-APO E-PLAN 4x, 10x, 20x, 40x, 100x IOS Semi-APO High-Grade PLAN 4x, 10x, 20x, 40x, 100x
Stage	Choice of: Standard Mechanical Stage Belt Drive Mechanical Stage MPC (Mineral Solid Surface) Belt Drive Mechanical Stage Motorized mechanical Stage
Condenser	Choice of: 0.90/0.25 NA Swing-Out Condenser (Required for use with 2x Objective) 0.90 N.A. Swing-Out Condenser 1.20 N.A. Swing-Out Condenser
Illumination	8 Watt LED Luminous flux : 450 lumen Luminous intensity : 2000 cd Equivalent to a dichroic halogen lamp with 45W, Equivalent to a standard halogen lamp with 110W Correlated Color Temperature : 6300K
Warranty	Five (5) Years mechanical and optical parts Two (2) Years electrical