



BS-2045 Biological Microscope

BS-2045B

BS-2045T

Introduction

BS-2045 series microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2045 can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2045 series microscopes present over expected and splendid micro images.

Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.

2. Wide-field high eye-point eyepieces and plan achromatic objectives make the effect of fluorescence observation more perfect.

3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.

4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.

5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.

6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filter for tuberculosis examination is available.

7. Rackless stage can avoid the potential hazard caused by moving rack.

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8. Intelligent illumination system.

(1) With coded nosepiece, the microscope is able to automatically remember the light intensity of each objective which you are used to, it helps to improve the work efficiency and decrease the visual fatigue.

(2) LCD on the right side of the frame shows color temperature and light intensity, as well as the objective magnification you are using, it is helpful to make record of experiment condition.



(3) Color temperature can be adjusted to get the best contrast, which is ranging from 3000K to 5600K.



3000K warm color LED (minimum)

5600K natural white LED (maximum)

The color temperature of LED light source is adjustable by straight screwdriver.





Application

BS-2045 series biological microscopes are ideal instruments for biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

Specification

| ltem | Specification | | BS-2045B | BS-2045T |
|----------------|--|---|----------|----------|
| Optical System | Infinite Color Corrected Optical | Infinite Color Corrected Optical System, parfocal distance 45mm | | • |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, eyepiece tube: Φ30mm | | • | 0 |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube: Φ30mm | | 0 | • |
| | Seidentopf trinocular head(dedicated for fluorescence), 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm | | 0 | 0 |
| Eyepiece | High eyepoint wide field plan eyepiece PL $10 \times / 22$ mm with adjustable diopter ± 5 | | • | • |
| | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer | | 0 | 0 |
| | Eyepiece pointer | | 0 | 0 |
| | Eyepiece micrometer | | 0 | 0 |
| Objective | | 2×, NA=0.06, WD=5.00mm (should work with frosted filter) | 0 | 0 |
| | | 4×, NA=0.10, WD=15.00mm | • | • |
| | Infinite Plan Achromatic | 10×, NA=0.25, WD=10.80mm | • | • |
| | Objectives | 20×, NA=0.45, WD=1.50mm | • | • |
| | | 40×(S), NA=0.65, WD=0.80mm | • | • |
| | | 60×(S), NA=0.85, WD=0.30mm | 0 | 0 |
| | | 100×(S, Oil), NA=1.25, WD=0.21mm | • | • |
| | Infinite Plan Phase Contrast Objective | 10×, NA=0.25, WD=10.80mm | 0 | 0 |
| | | 20×, NA=0.40, WD=1.50mm | 0 | 0 |
| | | 40×(S), NA=0.65, WD=0.80mm | 0 | 0 |

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|-------------------|--|---|----|---|
| | | 100×(S, Oil), NA=1.25, WD=0.18mm | 0 | 0 |
| | | 4×, NA=0.13, WD=16.40mm | 0 | 0 |
| | Infinite Plan Semi- | 10×, NA=0.30, WD=8.10mm | 0 | 0 |
| | Apochromatic Fluorescence | 20×, NA=0.50, WD=2.00mm | 0 | 0 |
| | Objectives | 40×(S), NA=0.75, WD=0.74mm | 0 | 0 |
| | | 100×(S, Oil), NA=1.28, WD=0.14mm | 0 | 0 |
| Nosepiece | Reversed Coded Quintuple Nose | epiece | • | ٠ |
| | Rackless Double Layers Mechanical Stage 150mm×162mm, moving range | | | |
| | 76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti- | | • | • |
| Stage | corrosion treatment on the stage surface | | | |
| | Double Layers Mechanical Stage 150mm×140mm, moving range 76mm×50mm, | | | |
| | double slide holder, accuracy: 0.1mm | | | 0 |
| | N.A.1.25 Koehler illumination co | ondenser with aperture diaphragm (with plug-in | | |
| | phase contrast and dark field pl | ohase contrast and dark field plate slot), condenser preset center and height • | | |
| | adjustable | | | |
| Condenser | N.A.1.25 Kohler Illumination Turntable Phase Contrast Condenser Set for 10X, | | | |
| | 20X, 40X, 100X Phase Contrast (| Observation | 0 | 0 |
| | N.A.1.25 Kohler Illumination Tu | N.A.1.25 Kohler Illumination Turntable Phase Contrast + Dark Field Condenser | | o |
| | Set for 10X, 20X, 40X, 100X Pha | Set for 10X, 20X, 40X, 100X Phase Contrast and 4X-40X Dark Field Observation | | |
| | Low position coaxial focusing sy | stem, moving range 30mm, with upper limit and | | |
| Focusing | tightness adjustment, fine division 0.002mm | | • | • |
| Transmitted | 3W LED (3000K-5600K), light int | tensity continuously adjustable; LCD on the right | | 1 |
| Illumination | side of the frame to show the color temperature and the objective magnification | | | • |
| | Mercury reflected fluorescent illuminator with eyes protective plate, 100W | | | |
| Mercury Reflected | mercury lamp house, power supply box, 100W DC mercury bulb (OSRAM/ | | 0 | 0 |
| Illumination | Chinese brand) | | | |
| | B1 band-pass type fluorescence module, with intensity adjusting knob, and | | | 0 |
| | switch knob for bright field and fluorescence, central wavelength:470mm | | 0 | |
| | G1 band-pass type LED fluorescence module, with intensity adjusting knob, and | | | |
| | switch knob for bright field and | fluorescence, central wavelength: 560mm | 0 | 0 |
| | B2 long-pass type fluorescence | module, with intensity adjusting knob, and switch | | |
| | knob for bright field and fluores | scence, central wavelength:470mm | 0 | 0 |
| LED Fluorescent | UV2 ultraviolet long-pass type L | ED module, with intensity adjusting knob, and | | 0 |
| Reflected | switch knob for bright field and | fluorescence, central wavelength: 385mm | 0 | |
| Illumination | UV4 ultraviolet long-pass type LED module, with intensity adjusting knob, and | | | 1 |
| | switch knob for bright field and fluorescence, central wavelength: 365mm | | 0 | 0 |
| | B4 LED fluorescence module dedicated for TB test, with intensity adjusting knob, | | | |
| | | h knob for bright field and fluorescence, central wavelength: 455mm | | 0 |
| | Other various LED module for option, which can be custom-tailor according to | | | |
| | the needs of clinical diagnosis. | | | 0 |
| | Blue filter Ø45mm | | 0 | 0 |
| Filters | Green filter Ø45mm | | 0 | 0 |
| | Yellow filter Ø45mm | | 0 | 0 |
| | | | 2 | - |

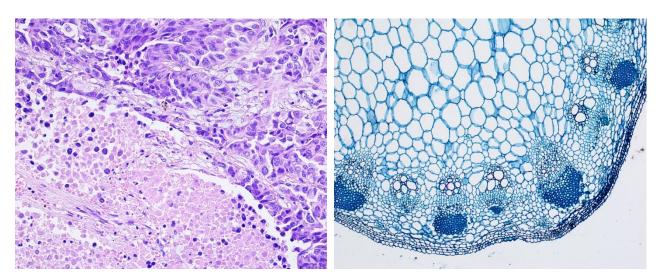
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| | Neutral filter Φ45mm | 0 | 0 |
|------------------------|--|---|---|
| Delerizing Kit | Polarizer | 0 | 0 |
| Polarizing Kit | Analyzer | | 0 |
| Dark Field Plate | Dark field insert plate (used for 4×-40× objectives) | 0 | 0 |
| Centering Telescope | Centering Telescope Φ 30mm (used with phase contrast plate and objective) | | o |
| Phase Contact | 10×, 40× Phase Contrast Insert Plate (used for 10×, 40× phase contrast objectives) | o | o |
| Plate | 20×, 100× Phase Contrast Insert Plate (used for 20×, 100× phase contrast objectives) | | 0 |
| Power Adapter | External power adapter, input 100V-240V, output 15V2.67A | • | • |
| | 0.35× C-mount adapter, adjustable | 0 | 0 |
| C-mount Adapter | 0.5× C-mount adapter, adjustable | | 0 |
| | 0.65× C-mount adapter, adjustable | | 0 |
| | 1× C-mount adapter, adjustable | 0 | 0 |
| | Trinocular tube for digital eyepiece (Φ23.2mm) | 0 | 0 |
| Packing | 1 set/carton, 58x56x28cm, GW: 10kgs, NW: 8kgs | • | • |

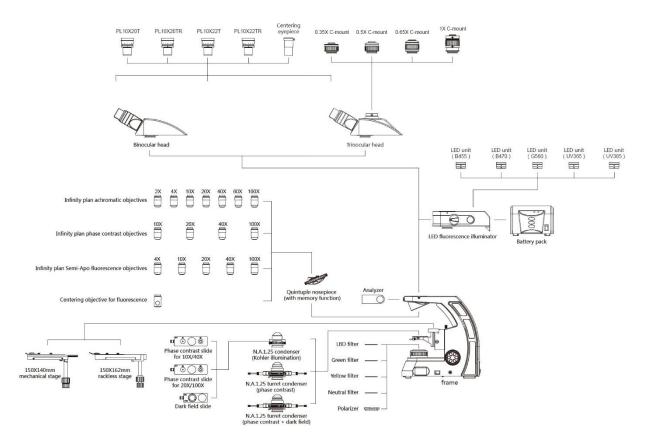
Note: • Standard Outfit, • Optional

Sample Images

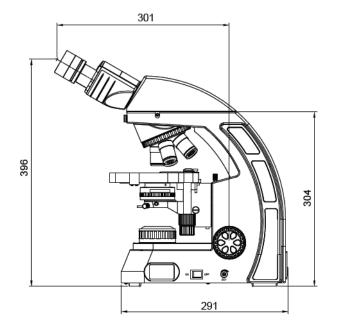


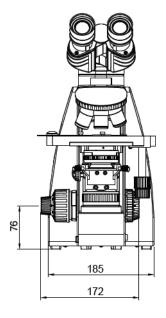


System Diagram



Dimension





Unit:mm