

## BS-2095 Research Inverted Microscope



BS-2095



BS-2095F

### Introduction

BS-2095 Inverted Biological Microscope is a research level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. It adopts an Infinite optical system, reasonable structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this research inverted biological microscope makes your works enjoyable. It has a trinocular head, so digital camera or digital eyepiece can be add to the trinocular head to take photos and videos.

### Feature

1. Excellent optical function with infinite optical system.
2. Bright field, phase contrast and DIC observation is available.
3. Innovative stand structure, sharp image display, convenient and special for viewing incubating cell tissue.
4. With Plan semi-APO phase contrast objective, Making Viewing Field Flatter and Brighter, Contrast Sharper, Living Cell Observing easier.
5. Advanced and Reliable Mechanical Stage with Knob Height and Tightness Adjustable.

### Application

BS-2095 Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

## Specification

| Item                                   | Specification   | BS-2095 | BS-2095 F | BS-2095 F(LED) |
|--|---|---------|-----------|----------------|
| Optical system                         | NIS60 Infinite optical system   | ●       | ●         | ●              |
| Eyepiece                               | SW10×/25mm, φ30mm   | ●       | ●         | ●              |
|  | SW10×/22mm, φ30mm   | ○       | ○         | ○              |
|  | EW12.5×/17.5mm, φ30mm   | ○       | ○         | ○              |
|  | WF15×/16mm, φ30mm   | ○       | ○         | ○              |
|  | WF20×/12mm, φ30mm   | ○       | ○         | ○              |
| Viewing Head                           | Trinocular head with Bertrand lens, inclined at 45°, Interpupillary 47-78mm, 3 position beam split ratio: 50/50, 100/0, 0/100               | ●       | ●         | ●              |
|  | Binocular ERGO head   | ○       | ○         | ○              |
| Plan semi-APO phase contrast objective | 10× NA=0.3 WD=8.1mm Cover glass 1.2mm   | ●       | ●         | ●              |
|  | 20× NA=0.45 WD=7.5-8.8mm Cover glass 0-2mm  | ●       | ●         | ●              |
|  | 40× NA=0.60 WD=3-4.4mm Cover glass 0-2mm  | ●       | ●         | ●              |
|  | 4× NA=0.13 WD=16.5mm Cover glass 0-2mm  | ○       | ○         | ○              |
|  | 60× NA=0.70 WD=1.8-2.6mm Cover glass 0.1-1.3mm  | ○       | ○         | ○              |
| Nosepiece                              | 6-hole nosepiece with DIC slot (DIC for transmitted and reflected)  | ●       | ●         | ●              |
| Condenser                              | Long working distance condenser, NA0.55, WD=26mm, with 6-position plate   | ●       | ●         | ●              |
| Illumination                           | Kohler illumination, 12V/100W halogen lamp  | ●       | ●         | ●              |
|  | LED illumination (service life of minimum 50,000 hours)   | ○       | ○         | ○              |
|  | ECO Auto-off function (automatically shut off in 15 mins if no users)   | ○       | ●         | ●              |
| Focusing                               | Coaxial coarse&fine focusing. Movement range 9mm, coarse adjustment 2mm/rotation, fine adjustment 0.2mm/rotation                            | ●       | ●         | ●              |
| Internal magnification                 | 1×, 1.5×  | ●       | ●         | ●              |
| Side video port                        | Switchable by turning plate, 3 models: left side port/eyepiece=50/50; right side port/eyepiece=20/80; left&right side port/eyepiece=0/100   | ●       | ●         | ●              |
| Dark field                             | Optional  | ○       | ○         | ○              |
| Polarizing kit                         | Optional  | ○       | ○         | ○              |
| Phase contrast                         | Standard  | ●       | ●         | ●              |
| DIC                                    | Optional  | ○       | ○         | ○              |
| Stage                                  | Three-layer mechanical stage, movement range 130×85mm, flexible knob. Different small sizes stage could be attached to main stage           | ●       | ●         | ●              |
| Fluorescent attachment                 | Epi-fluorescence attachment with 100W HBO mercury lamp and B,G,UV fluorescent filters, field diaphragm, center adjustable.                  | ○       | ●         | ○              |
|  | Epi-fluorescence attachment with 5W LED lamp and B,G,UV fluorescent filters (input voltage: 100V-240V), field diaphragm, center adjustable. | ○       | ○         | ●              |
|  | Multi-model plate structure, total 6 position, could be taken out from main frame and change different cube easily.                         | ○       | ●         | ●              |
|  | V, B1, R fluorescent filters  | ○       | ○         | ○              |

Note: ● Standard Outfit, ○ Optional