



# Bio-Science MICROSCOPES CATALOG

*Inverted Microscopes*  
*Biological Microscopes*  
*Zoom Stereo Microscopes*



*MicroData Instrument, Inc.*

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**All microscopes in this catalog are produced in a ISO 9001 Quality System Certified manufacture. All microscopes are composed of high quality optical components and reliable mechanical structures. All our products come with warranty, technical support and repair service.**



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## Ordering Information

### How to Order

Telephone orders must be confirmed in writing by fax or mail. All purchase orders must be signed by an authorized purchasing agent or person.

### Export Order

Orders outside of the U.S.A. and Canada should be placed directly to this office or to the local representatives. Payment of U.S.A. currency must accompany all direct orders. Contact our sales department for quotation of shipping costs and payment options.

### Prices

All prices are FOB factory and subject to change without notice. Shipping and insurance are additional.

### Minimum Billing

Orders totalling less than \$300.00 are charged an additional \$30.00 for handling.

### Warranty

All products are warranted to be free of defects in materials and workmanship for one year from date of shipment. Warranty becomes null and void because of abuse, disassembly, or unauthorized repair of product.

### Service

Technical supports are available by directly calling the office. Repairs and modifications are also available for all our products.

### Return

Standard catalog items may be returned within 20 days from receipt, but customer must pay all shipments. Returns after 20 days and before 30 days will be subject to a 15% restocking charge. No return after 30 days. All return items should be maintained original condition. Used or contaminated pipettes, tubing and vials are not returnable. Modified or special order items are not returnable. When returning, contact MicroData Instrument, Inc. for authorization.

# IMS-01 INVERTED MICROSCOPE

## WITH MICROMANIPULATOR MOUNTING ADAPTORS AND DIGITAL CAMERA, VIDEO CAMERA ADAPTORS



IMS-01 with two-side micromanipulator mounting adaptors and digital camera with adaptor.



The IMS-01 Inverted Microscope is furnished with long working distance plan achromatic objective, long or ultra-long working distance condenser, wide field eyepiece and phase contrast attachment . The IMS-01 can be combined with two-side bracket adaptors for micromanipulators and C-mounted adaptor for a video camera or a digital camera. The IMS-01 is suitable for research of cell culture, living specimen structure, liquid deposits and so on. It also can be used in medical treatment research, agriculture and animal husbandry research etc. Its high quality optics, simple but convenient mechanics and very economic price will be an ideal platform for a microinjection / perfusion working station.



IMS-01 with two-side micromanipulator mounting adaptors



IMS-01 INVERTED MICROSCOPE

### Specifications

<p><b>Magnification:</b> 100x-400x</p> <p><b>Trinocular:</b> For digital camera, video camera and photo attachment.</p> <p><b>Eyepieces</b> Wide field eyepieces: 10x, F:25mm D:18mm</p> <p><b>Objectives:</b> Long working distance plan achromatic objectives (cover glass thick: 1.2mm): 10x-NA0.25WD8.1mm, 25x-NA0.4WD4.8mm, 40x-NA0.6WD3.3mm</p> <p>Long working distance plan achromatic phase contrast objective: 10x-NA0.25 WD8.1 (include 10x annular diaphragm plate).</p> <p><b>Condenser:</b> Long working distance condenser: NA=0.4, working distance 28mm.</p> <p><b>Mechanical Stage:</b> Size: 200mmx152mm: Movement range: 30mmx70mm.</p> <p><b>Focusing Mechanism:</b> Coaxial coarse and fine focusing mechanism with tension adjustable and focus stop, minimum increment is</p>	<p><b>Optional:</b></p> <p><b>Two-Side Mounting Adaptor:</b> Two-side mounting rods (dia. 10mm) and brackets with 6 locations adjustment for micromanipulators or other micro-tool connection.</p> <p><b>C-mount Adaptor:</b> For video camera attachment.</p> <p><b>D-Camera Adaptor:</b> For Nikon Coolpix digital camera connection and convert optics.</p> <p><b>Photo Camera Attachment:</b> 2.5x/4x change over photo attachment (include 10x viewing eyepiece), 4x focusing photo attachment for Pentax 35mm camera body.</p> <p><b>Eyepieces:</b> Wide field: 16x, 20x</p> <p><b>Objective:</b> Long working distance plan achromatic phase contrast objectives: 25x/0.4, 40x/0.6 (include 25x, 40x annular diaphragm plate).</p> <p><b>Condenser:</b> Ultra-long working distance 70mm.</p> <p><b>Interpupillary:</b> 53-75 mm.</p> <p><b>Illumination:</b> 6V20W halogen lamp, adjustable brightness.</p>
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# INVERTED MICROSCOPE ACCESSORIES

***For IMS-01:***



**Ultra-long Working Distance Condenser.**

**Long Working Distance Plan Achromatic Phase Contrast Objectives and Annular Diaphragm plate.**

**2.5X / 4X change over photo attachment (include 10x viewing eyepiece).**

**4x focusing photo attachment.**

***For IMS-02:***



**Long working distance plan achromatic phase-contrast objective(cover glass thick:1.2mm): PLL10x/0.25PHP2, PLL25x/0.25PHP2, PLL40x/0.25PHP2.**

**Digital camera lens adaptor**



**C-mount adjustable focus lens adaptor**



**Plan eyepiece: 16x(φ11mm), 20x(φ11mm) eyepieces and ultra-long working distance 70mm condenser.**



# IMS-02 INVERTED & FLUORESCENCE MICROSCOPE

## APPLICATIONS

IMS-02 Inverted & Fluorescence Microscope is composed of with inverted microscope and fluorescence microscope. It is furnished with long working distance plan achromatic objectives and plan schromatic phase contrast objectives, long working distance condenser and phase contrast sttschment; It is advanced instrument suitable for observe the transparent living specimen structure and research liquid deposits; reflected fluorescence is used for fluorescence microscopy.

## SPECIFICATION

**Magnification:** 100x-400x

**Trinocular:** For digital camera, video camera and photo attachment.

**Eyepieces:** Wide field eyepieces: 10x ( $\phi 20\text{mm}$ )

**Objectives:** Long working distance plan achromatic objectives (cover glass thick: 1.2mm): PLL10x/0.25, PLL25x/0.4, PLL40x/0.6.

Long working distance plan achromatic phase-contrast objective(cover glass thick: 1.2mm): PLL10x/0.25PHP2, PLL25x/0.25PHP2, PLL40x/0.25PHP2.

**Condenser:** Special long working distance condenser (with Mechanical phase contrast): working distance 50mm.

**Stage:** The movement mechanism can be taken out ,

**Focusing** movement range: 79mm x 112mm.

**Mechanism:** Coaxial coarse and fine focusing mechanism with tension adjustable and focus stop, fine focusing knob: minimum division is 0.002mm.

**Interpupillary:** 53 mm - 75 mm.

**Illumination:** A. Transmitted light: 6v30w halogen lamp, adjustable brightness, 110v/220v optional.

B. Reflected light: 100w/DC mercury lamp, power supply 110v/220v optional.

**Excitation system:** UV(Ultraviolet, excitation filter 330-440nm), V(Violet excitation filter 395-415nm), B(Blue, excitation filter 420-485nm), G(Green, excitation filter 460-550nm).

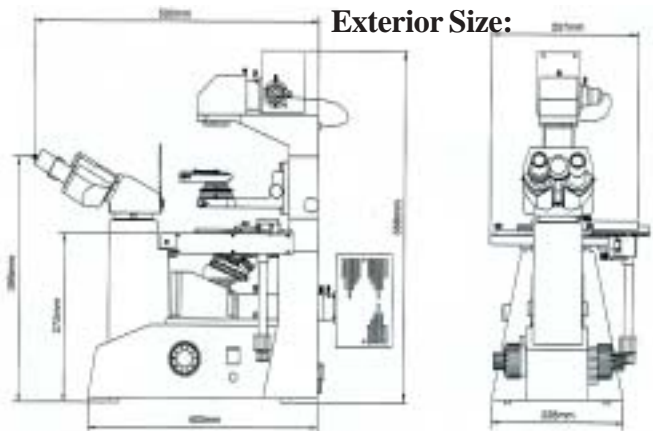
**Anti-fugus:** Yes.

## Optional:

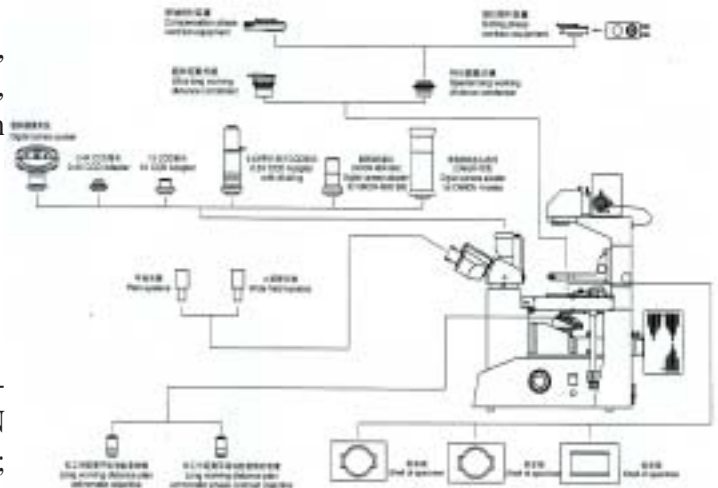
**Eyepieces:** Plan eyepiece: 16x( $\phi 11\text{mm}$ ), 20x( $\phi 11\text{mm}$ ).

**Condenser:** Ultra-long working distance 70mm.

**Attachment:** 2.5x/4x photograph equipment, 4x focusing photograph equipment, CCD camera adapter, NIKON digital camera adapter (for NIKON 4500, 995 etc.); CANON A series digital camera adapter etc.



## System Diagram:



# BIOLOGICAL MICROSCOPES

## MS-01 MICROSCOPE



## FEATURES

- Inner locating quadruple nosepiece on ball bearing, convenient operation.
- Coaxial coarse/fine focus system. Gear wheel driving is provided with tension adjustable and limit stopper.
- Equipped with excellent achromatic objectives with wider clear field.
- Complete function with many optional accessories.

The MS-01 Biological Microscopes are designed for biomedical applications. They can be used for biological research, diagnosis, chemical examination and teaching in manufactures, universities and research institutes. There are many optional accessories can be selected to form a trinocular (MS-01T) or a fluorescence microscope (MSF-01).

## MS-01 Biological Microscope Specifications

**Magnification:** 40x - 1600x

**Binocular:** Inclination of 30 (or 45) degree, 360 degree rotation, Compensation binocular.

**Eyepieces** Wide field eyepieces: 10x-F:25mm D:18mm. 16x (or 20x)-F:15.6mm D:11mm.

**Objectives:** Achromatic objectives: 4x-NA0.1 WD37.4mm, 10x-NA0.25WD6.6mm, 40x-NA0.65 WD0.64mm, 100xoil-NA1.25WD0.19mm.

**Condenser:** Abbe condenser with height adjustable, NA=125.

**Mechanical** Size: 125mm x 135mm: Movement range: 35mm x Stage: 75mm.

**Focusing** Coaxial coarse and fine focusing mechanism with

**Mechanism:** tension adjustable and focus stop.

**Illumination:** 6V20W halogen lamp, adjustable brightness.

### Optional:

#### Mounting

**Adaptors:** Trinocular. Dual viewing tube.

**Fluorescence:** EPI-fluorescence unit with power supply, mercury lamp house 100W/DC, trinocular, B.G. exciting system, fluorescence objectives: 25x/0.65

**C-mount** spring, 40x/1.0 glycerin spring.

**Adaptor:** CCD adapter for video camera attachment.

**Digital Camera** For Nikon Coolpix digital camera connection and **Adaptor:** convert optics.

**Photo Camera** 2.5/4x change over photo attachment (include

**Attachment:** 10x viewing eyepiece), 4x focusing photo attachment for Pentax 35mm camera body.

**Eyepieces:** Wide field: 16x, 20x

**Objective:** Plan achromatic phase contrast objectives unit.

**Condenser:** Dry dark field condenser. Immersion dark field condenser unit.

Digital camera  
lens adaptor



# MSF-01 FLUORESCENCE MICROSCOPE



## Specifications

- Eyepieces:** Wide field eyepieces: 10x-F:25mm D:18mm. Optional: 16x (or 20x)-F:15.6mm D:11mm.
- Objectives:** Achromatic objectives: 4x/NA0.1 WD37.4mm, 10x/NA0.25WD6.6mm, 100x oil-NA1.25WD0.19mm Spring. Fluorescence objectives: FL25x/0.65. FL40x/1.0, glycerin, spring. Optional: FL100x/1.25, glycerin, spring.
- Nosepiece:** Quadruple, Optional: Quintuple.
- Reflected fluorescence Unit:** 110V/220V power unit, mercury lamp house 100W/DC, reflected fluorescence illuminator (Trinocular, B.G. excitation system).
- Condenser:** Abbe condenser with height adjustable, NA=125.
- Mechanical Stage:** Size: 125mm x 135mm: Movement range: 35mm x 75mm.
- Focusing:** Coaxial coarse and fine focusing mechanism with tension adjustable and focus stop.
- Illumination:** 6V20W halogen lamp, adjustable brightness.

## Optional Accessories For MS-01:



4x Photo Focusing Unit

2.5x / 4x Change Over Photo Unit

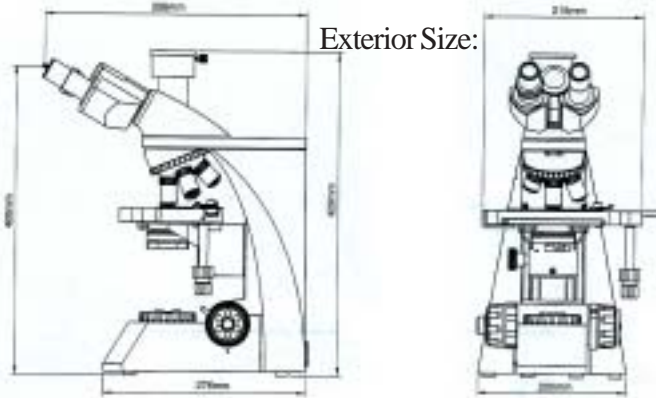
Phase Contrast Unit

Dry Dark Field Condenser

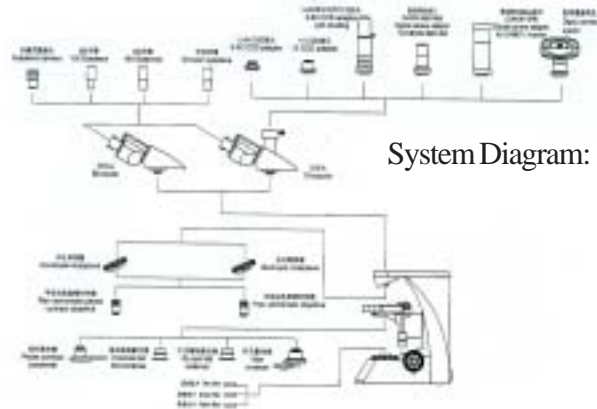
Immersion Dark Field Condenser Unit

# MS-02A/B MICROSCOPE

# MS-02A/T MICROSCOPE



Exterior Size:



System Diagram:

## Specification & Components

MODEL: MS-02A/  
B T MS-02B/  
B T

Eyepieces: Wide field	WF10x (φ20mm) WF16x (φ11mm)	V V	V V
Objectives: Plan achromatic	PL 4x/0.1	V V	V V
	PL 10x/0.25	V V	V V
	PL 20x/0.40		V V
	PL 40x/0.65, spring	V V	V V
	PL 100x/1.25, spring	V V	V V
Eyepieces tube: Binocular Trinocular	Compensation (inclination of 30 degree) 360 degree rotatable	V	V
		V	V
Stage: Mechanical	Size: 210 x 140 mm; Move range: 50 x 75 mm	V V	V V
Focusing system: Coaxial coarse/fine	Gear rotate with tension adjustable and limit stopper system.	V V	V V
Nosepiece: Quadruple Quintuple		V V	
			V V
Condenser: Abbe condenser NA1.25, rack & pinion adjustment		V V	V V
Illumination: 6V20W halogen lamp, adjust- able brightness.		V V	V V
Collector: Compose with field diaphragm		V V	V V
Anti-fungus:		V V	V V



# MSS-101T Trinocular Zoom Stereo Microscopes

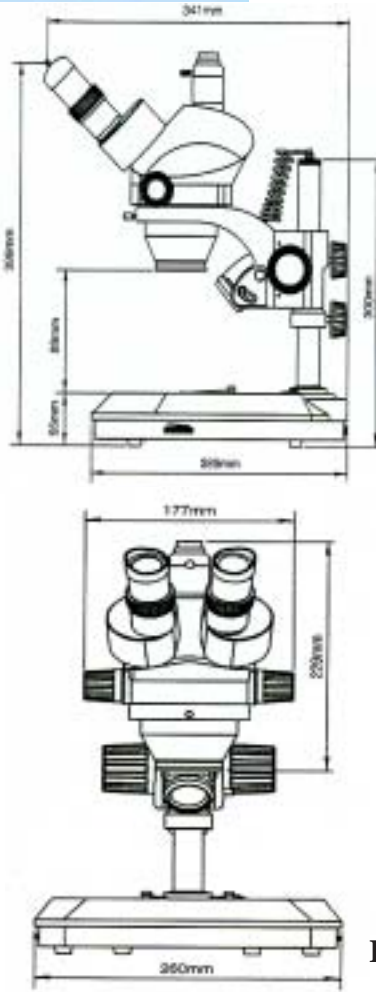


## Applications

The MSS-101T Trinocular Zoom Stereo Microscopes can magnify micro objects and show stereo upright images. They can be used for observation studies in medical and health, farming and forestry, as well as for inspection and precision part assembling. The third eyepiece tube can be adapted CCD, photo device or digital camera.

## Features

- Objectives range of zoom magnification: 0.7x - 4.2x.
- Eyepieces field is wide and clear. The binocular eyepiece tubes is inclined 45 degree and can be rotated 360 degree, the adjustment range of interpupillary distance: 53 - 75mm, the diopter of eyepiece can be adjusted.
- Anti-mildew is installed in binocular to extend the life of instrument.
- Transformer is out of the base of instrument.
- Many illumination models can be chosen.



## Specifications

- Base size: 260 mm x 290 mm
- Total Magnification: 7x - 42x.
- Eyepieces WF10x D22 mm.
- Objectives: Zoom range: 0.7x - 4.2x.
- Working Distance: 90 mm
- Illumination: 6V8W halogen lamp reflected light, transmitted light or mixed light.
- Optional accessories: Eyepieces: WF15x, WF20x, WF25x, scale10x.  
Objectives: 0.5x, 0.75x, 1.5x, 2x.  
Photo devices: 0.4x, 1x  
CCD adapter.  
Illumination: 8w110v/220v circle fluorescence lamp.

## Exterior Size