

MI52-N Research level biological microscope



Inverted biological microscope MI52-N adopts excellent infinity optical system with long working distance plan objectives and wide field eyepiece. The body is compact, stable and rigidity which meets the requirement of anti-shock. The swing-in and swing-out type condenser system can achieve doing non-contaminated cultured cells observation in the high culture dish or the cylindrical flask.

The ergonomics design makes the operation convenient and comfortable in a wider space. MI52-N is applicable in the micro observation of cells tissue and transparent liquid tissue as well dynamic observation of culture tissue in the culture dish. This inverted biological microscope is widely used in the fields including scientific institute, universities, medical and health center, inspection and quarantine, agriculture and dairy farming, etc.

Advantages:

- Modular infinity optical system, high clarify, high contrast
- Plan wide field eyepiece (FN:22mm), high eye-point, diopter adjustable
- All objectives FN \geq 25mm, bright field 4X, 40X, phase contrast 10X,20X
- 4 different sizes culture dishes
- Integrated 0.75X C-mount adapter excellent for all cameras sensor under 1"
- High power cold LED lamp light source
- Camera and microscope from the same brand, make sure the best performance
- Can expand to BGU fluorescence function by MSHOT modular illuminator immediately
- Stage compatible to use with thermal stage for live cell imaging.

Applications

- Cytology
- Botany
- Live cell
- Sperm analysis
- Pathology
- Microorganism
- Bacteria
- Organism culture
- Plankton analysis
- Water quality control
- Education



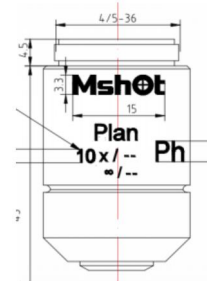
10X/20X/40X
Phase contrast slider



0.75x Camera port
Same brand camera

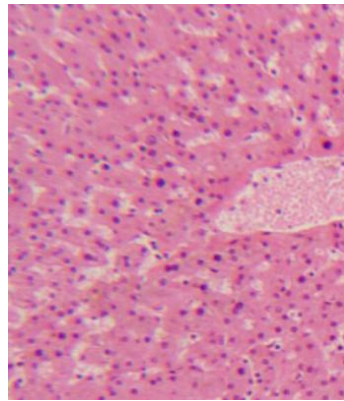
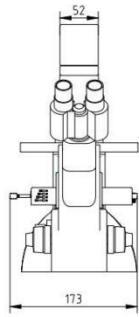
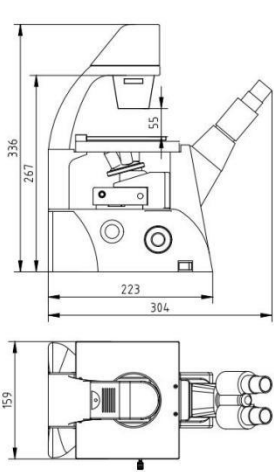


Culture dish holder

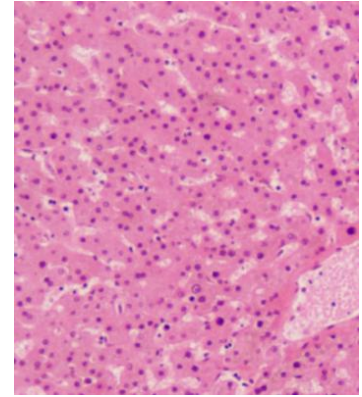


Self-design high clarity objective

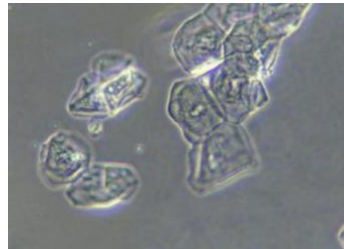
Dimension: unit mm



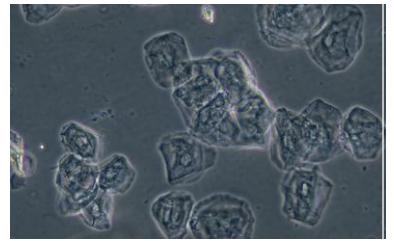
Less quality microscope



MI52-N



Less quality microscope

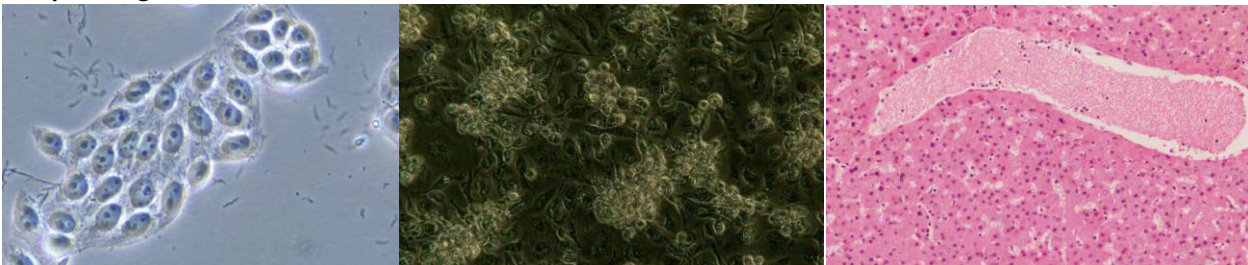


MI52-N

Cases at side








Sample images



Specification sheet

Eyepiece	Wide field plan objective SWF10X/22, high eyepoint, one diopter adjustable Centering telescope	
Observation tube	45° inclined, interpupillary distance 53~75mm	
Objectives	Bright field	Long working distance plan objective M-UPLFLN4X/0.13, working distance 17.15mm
		Infinite long working distance plan achromat objective LACH 40X/0.58, working distance 3.5mm
	Phase contrast	Infinite long working distance plan achromat phase contrast objective Plan10X/0.25 PH, working distance 4.1mm
		Infinite long working distance plan achromat phase contrast objective Plan20X/0.45 PH, working distance 5.0mm
Optional objectives	Bright field PLL 10X/0.25 Work distance:4.1mm	
	Bright field PLL 20X/0.45 Work distance:5.0 mm	
	Phase contrast PLL 40X/0.58PHP Work distance:2.5mm	
Phase contrast ring plate	10X, 20X, 40X (20x and 40x in one unit)	
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop, minimum division of fine focusing is 2μm.	
Nosepiece	Quintuple nosepiece, ball bearing with anti fungus device	
Stage	Fixed stage overall size is 227mmX208mm	
	Glass rotundity stage overall size is Φ118mm, inner size is Φ68mm	
	Mechanical moving device, moving range is 77mm (longitudinal)X135mm (transverse)	
	Culture dish holder 1	Inside locating slot size: 86mm (W)X129.5mm (L), (suitable for circular culture dish Φ90mm)
	Culture dish holder 2	Inside locating slot size: 34mm (W)X77.5mm (L), (suitable for circular culture dish Φ68.5mm)
	Culture dish holder 3	Inside locating slot size:57mm (W)X82mm (L), (suitable for circular culture dish Φ60mm)
Culture dish holder 4	Inside locating slot size:29mm(W)X77.5mm (L), (suitable for circular culture dish Φ35mm)	
Transmitted illumination system	9W white LED lamp with brightness adjustable	
	Push-pull type condenser, working distance 55mm	
Camera adapter	Internal set 0.75X C-mount	
Tool	Allen driver	
	Dust cover	

Optional accessories

Products	Item	Description	Photo
Microscope camera	MD60	1/1.8" USB3.0 CMOS camera, 6.3MP, 30fps, 380~650nm	
	MS60-2	1/1.8" USB3.0 CMOS camera, 6.3MP, 71fps, 380~650nm	
	MSX1	1/1.7" USB3.0 CMOS camera, 10.0MP, 36fps, 380~650nm	
	MS23	1/1.2" USB3.0 CMOS camera, 2.3MP, 40fps, 380~1000nm, global shutter	
	MSX2	1" USB3.0 CMOS camera, 12.5MP, 15fps, 380~1000nm	
Thermal plate	TP-C118-M	Tolerant heating temperature: room temperature ~50 °C , diameter 118mm	