

# STALWART

## Research Inverted Microscope STM-2095 Series



STM-2095



STM-2095F

## Introduction

STM-2095 Inverted Biological Microscope is a research level microscope which is specially designed for medical and health units, universities, research institutes to oSTMerve 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.

## Features

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

## Specification

Item	Specification	STM-2095	STM-2095 F	STM-2095 F(LED)
Optical system	NIS60 Infinite optical system	Standard	Standard	Standard
Eyepiece	SW10×/25mm, φ30mm	Standard	Standard	Standard
	SW10×/22mm, φ30mm	Optional	Optional	Optional
	EW12.5×/17.5mm, φ30mm	Optional	Optional	Optional
	WF15×/16mm, φ30mm	Optional	Optional	Optional
	WF20×/12mm, φ30mm	Optional	Optional	Optional
Viewing Head	Trinocular head with Bertrand lens, inclined at 45°, Interpupillary 47-78mm, 3 position beam split ratio: 50/50, 100/0, 0/100	Standard	Standard	Standard
	Binocular ERGO head	Optional	Optional	Optional
Plan semi-APO phase contrast objective	10× NA=0.3 WD=8.1mm Cover glass 1.2mm	Standard	Standard	Standard
	20× NA=0.45 WD=7.5-8.8mm Cover glass 0-2mm	Standard	Standard	Standard
	40× NA=0.60 WD=3-4.4mm Cover glass 0-2mm	Standard	Standard	Standard
	4× NA=0.13 WD=16.5mm Cover glass 0-2mm	Optional	Optional	Optional
	60× NA=0.70 WD=1.8-2.6mm Cover glass 0.1-1.3mm	Optional	Optional	Optional
Nosepiece	6-hole nosepiece with DIC slot (DIC for transmitted and reflected)	Standard	Standard	Standard
Condenser	Long working distance condenser, NA0.55, WD=26mm, with 6-position plate	Standard	Standard	Standard
Illumination	Kohler illumination, 12V/100W halogen lamp	Standard	Standard	Standard
	LED illumination (service life of minimum 50,000 hours)	Optional	Optional	Optional

## Specification

	ECO Auto-off function (automatically shut off in 15 mins if no users)	Optional	Standard	Optional
Focusing	Coaxial coarse&fine focusing. Movement range 9mm, coarse adjustment 2mm/rotation, fine adjustment 0.2mm/rotation	Standard	Standard	Standard
Internal magnification	1×, 1.5×	Standard	Standard	Standard
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	Standard	Standard	Standard
Dark field	Optional	Optional	Optional	Optional
Polarizing kit	Optional	Optional	Optional	Optional
Phase contrast	Standard	Standard	Standard	Standard
DIC	Optional	Optional	Optional	Optional
Stage	Three-layer mechanical stage, movement range 130×85mm, flexible knob. Different small sizes stage could be attached to main stage	Standard	Standard	Standard
Fluorescent attachment	Epi-fluorescence attachment with 100W HBO mercury lamp and B,G,UV fluorescent filters, field diaphragm, center adjustable.	Optional	Standard	Optional
	Epi-fluorescence attachment with 5W LED lamp and B,G,UV fluorescent filters (input voltage: 100V-240V), field diaphragm, center adjustable.	Optional	Optional	Standard
	Multi-model plate structure, total 6 position, could be taken out from main frame and change different cube easily.	Optional	Standard	Standard
	V, B1, R fluorescent filters	Optional	Optional	Optional

## Application

STM-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.