

STALWART

Fluorescent Biological Microscope (LED, TB) STM-2040F(LED,TB) Series



STM-2040FB(LED,TB)



STM-2040FT(LED,TB)

Introduction

STM-2040F(LED,TB) Series LED Fluorescence Microscopes are professional solution for tuberculosis test applications with LED fluorescence excitation and transmitted-light brightfield illumination. The life span of the LED lamp is much longer than mercury lamp, the performance is also better.

Features

- Excellent fluorescent image with infinite optical system.
- LED illumination with 50,000 hours life span. Convenient to use, no need warm-up.
- No need for cooling system and protection device due to LED cold light source.
- 450nm excited wavelength with high SNR.
- More fluorescent filters are available for different applications.

Specification

Item	Specification	STM-2040FB (LED,TB)	STM-2040FT (LED,TB)
Optical System	Infinite Optical System	Standard	Standard
Viewing Head	Seidentopf Binocular Head, Inclined at 30°, Interpupillary 48-75mm	Standard	
	Seidentopf Trinocular Head, Inclined at 30°, Interpupillary 48-75mm		Standard
Eyepiece	Wide Field Eyepiece WF10×/18	Standard	Standard
	Wide Field Eyepiece WF10×/20	Optional	Optional
	Wide Field Eyepiece WF10×/22(with 30mm eyepiece tube)	Optional	Optional
Nosepiece	Backward Quadruple Nosepiece	Standard	Standard
Objective	Infinite Semi-plan Achromatic Objective: 4×, 10×, 40×, 100×	Standard	Standard
	Infinite Plan Achromatic Objective: 4×, 10×, 20×, 40×, 60×, 100×	Optional	Optional
	Infinite Plan Fluorescent Objective: 4×, 10×, 20×, 40×, 100×	Optional	Optional
Condenser	Sliding-in Centerable Condenser NA 1.25	Standard	Standard
	Swing-out Condenser NA0.9/0.25	Optional	Optional
Focusing	Coaxial Coarse&Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Fine Stroke 0.2mm/Rotation, Moving Range 20mm	Standard	Standard
Stage	Double Layers Mechanical Stage 140×140/ 75×50 mm	Standard	Standard

Specification

	Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm	Optional	Optional			
Photo Adapter	Used to connect Nikon or Canon DSLR camera to the microscope	Optional	Optional			
Video Adapter	1× C-mount	Optional	Optional			
	0.5× C-mount	Optional	Optional			
Transmitted Illumination	3W S-LED Illumination, Brightness Adjustable	Standard	Standard			
	Halogen Lamp 6V/20W, Brightness Adjustable	Optional	Optional			
Fluorescent Filter	Item	Excitation	Dichroic Mirror	Barrier Filter		
	FL-Auramine	Bp470	DM480	Ba485	Standard	Standard
	Blue excitation	BP460~490	Dm505	BA515	Optional	Optional
	Green excitation	BP510~550	DM570	BA590	Optional	Optional
Reflected Light Source	3W LED Lamp(450nm)	Standard	Standard			
	3W LED Lamp(465-476nm)	Optional	Optional			
	3W LED Lamp(525-530nm)	Optional	Optional			
Rechargeable Battery	Lithium Rechargeable battery for both reflected and transmitted illumination, can work more than 8 hours after one charge	Optional	Optional			
Immersion Oil	Fluorescent Free Oil	Standard	Standard			
Optional accessories	BPHE-1 Turret Phase Contrast Kit	Optional	Optional			
	Simple Polarizing Set	Optional	Optional			
	Dry Darkfield Condenser (used for 4×, 10×, 20×, 40×, 60× objectives)	Optional	Optional			
	Oil Darkfield Condenser (used for 100× objective)	Optional	Optional			
	Dust Cover	Standard	Standard			

Application

STM-2040F(LED, TB) LED Fluorescence microscopes are used to study the aSTMorbing, transportation, chemicals distribution and positioning in cells. They are widely used in laboratories, clinics, hospitals, medical colleagues and universities for disease examination, immune diagnosis and life science research.

Sample Picture

