

STALWART

Polarizing Microscope STM-5092 Series



STM-5092RF/TRF

Introduction

STM-5092 series transmitted and (or) reflected polarizing microscopes are specifically designed for university colleges, geology, mining, metallurgy, pharmacy and other institutions for teaching, research and production. They can be used to analyze and identify various minerals and specimens, they can also be used to inspect chemical fiber, semiconductor products and medicines. Users can do single-polarized oSTMervation, orthogonal polarization oSTMervation, conoscope oSTMervation and photography with the microscope. Gypsum λ plate, mica $\lambda/4$ plate, quartz wedge plate and moving stage, wrenches come with the microscope. This microscope is a set of powerful and good quality polarizing microscope.

Features

- Trinocular head, digital cameras can be easily used on this microscope for image and video taking.
- Supply high quality and contrast image with special strain free objectives.
- Can be used for single polarization, othogonal polarization and conoscopic oSTMervation.
- Transmitted and (or) reflected illumination, 24V/100W long life halogen lamp.
- Stage with 45° located, attachable mechanical stage with large moving range, no interference when change objectives.
- Gypsum λ plate, mica $\lambda/4$ plate, quartz wedge plate are equipped.
- High quality professional polarizing microscope for geology, petroleum, chemicals, mining, metallurgy, pharmacy, polymer, LED and other field.

Specification

Item	Specification	STM-5092RF	STM-5092TRF
Optical System	Infinite Optical System	Standard	Standard
Viewing Head	Seidentopf trinocular head, Inclined at 30°, Interpuillary 48-75mm	Standard	Standard
Eyepiece	Plan eyepiece EW10×/22mm	Standard	Standard
	Plan eyepiece with scale of crosshair, Plan eyepiece with crosshair, Plan eyepiece with gridding	Standard	Standard
Strain-Free Plan Achromatic Objective	5×/0.12/∞/-, WD 15.5mm	Standard	Standard
	10×/0.25/∞/-, WD 10.0mm	Standard	Standard
	20×/0.4/∞/0, WD 5.8mm	Standard	Standard
	50×/0.75/∞/0, WD 0.32mm	Standard	Standard
	100×/0.8/∞/0, WD 2mm	Standard	Standard
	40×/0.65/∞/0.17, WD 0.54mm		Standard
	100×/1.25/∞/0.17, WD 0.13mm		Standard
Nosepiece	Backward quintuple nosepiece, Center adjustable	Standard	Standard
Analyzer	0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°	Standard	Standard
Conoscopic OSTMervation	Switch between orthoscopic and conoscopic oSTMervation, Bertrand lens position adjustable	Standard	Standard
Optical Compensator	λ plate (first class red), 1/4 λ plate, quartz wedge plate	Standard	Standard

Specification

Polarizing Rotatable Stage	Diameter Φ 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6', 45° click stop knob	Standard	Standard
Attachable Stage	Moving range 30mm×40mm	Optional	Optional
Condenser	Strain free swing out condenser NA0.9/0.25		Standard
1Focusing	Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation	Standard	Standard
Polarizer	Transmitted: 360° Rotatable, 0° position adjustable		Standard
	Reflected: Fixed	Standard	Standard
Illumination	Reflected light: 24V/100W Halogen lamp, brightness adjustable	Standard	Standard
	Transmitted light: 24V/100W Halogen lamp, brightness adjustable		Standard
Filter	Blue filter Φ 45mm		Standard
	ND6 Neutral density filter Φ 45mm		Optional
	ND25 Neutral density filter Φ 45mm		Optional
	Blue filter Φ 25mm	Optional	Optional
	ND6 Neutral density filter Φ 25mm	Optional	Optional
	ND25 Neutral density filter Φ 25mm	Optional	Optional
Attachment	Video attachment	Optional	Optional
	0.01mm micrometer	Optional	Optional

Application

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Sample Pictures

