

# STALWART

## Research Polarizing Microscope STM-5095 Series



STM-5095/RF/TRF

## Introduction

STM-5095 series scientific research polarizing microscopes have been specially designed for laboratory and scientific research work and university education, the microscopes combine with the practical, easy operation and superior optical system, can be used for single polarization, orthogonal polarization, conoscopic light observation. They can provide you reliable, high resolution and high contrast image. The microscopes can be used for multipurpose polarized light observation in fields such as geology, mineralogy and fossil fuel resource exploration

## Features

### **Research-grade Polarizing Microscope with Wide Application Range and High Reliability.**

- Transmission observation: Bright Field, Dark Field, Phase Contrast.
- Reflection observation: Bright Field, Dark Field, Polarizing, Fluorescent, Phase Contrast (DIC).
- Multiple Types of Compensators are available

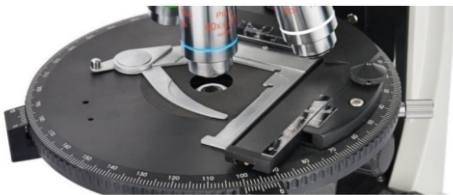


### **Excellent Optical Quality and Strong Stability.**

- Infinite optical system and 10X/25mm eyepiece provide a high definition and wide view field.
- Kohler Illumination System with Uniform Illumination makes the microscopic imaging more realistic and the results are highly repeatable.
- Strain-free Plan objectives Make Imaging More Accurate.
- Center Adjustable Sextuple Nosepiece allow more objectives.



- High-precision Revolving Round Stage, diameter 190mm, pre-centered, attachable X-Y stage is optional.

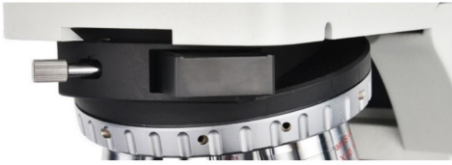


- The polarizing set includes 0-360° rotatable analyzer, Bertrand lens can switch very quickly from conoscopic and orthoscopic images.



## Features

- Compensator Slot on nosepiece. Various compensators can be used to enhance the advanced quantitative measurement of the signal of the weak birefringent material.



**Tilting Seidentopf Trinocular Viewing Head can be operated in a more comfortable position.**



**Rotary oSTMervation Module.**

- Up to 6 oSTMervation modules can be placed in the rotating disc structure, different oSTMervation method can be quickly switched.



**ECO Function.**The transmitted light would be off automatically after 30 minutes from operators leave. It can save energy and extend the lamp life.



## Specification

Item	Specification	STM-5095	STM-5095 RF	STM-5095 TRF
Optical System	NIS60 Infinite Plan Semi-Apochromatic Optical System	Standard	Standard	Standard
Viewing Head	Seidentopf Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 47-78mm	Standard	Standard	Standard
	Tilting Seidentopf Trinocular Head, inclined at 0-35°, 360° Rotatable, Interpupillary Distance: 47-78mm	Optional	Optional	Optional
Eyepiece	SW10×/25mm (2 pieces)	Standard	Standard	Standard
	SWF10×/25 with cross line reticle, with fixing pin (1 piece)	Standard	Standard	Standard
	SWF10×/25 with cross line, with fixing pin (1 piece)	Standard	Standard	Standard
	SWF10×/25 with grid reticle, with fixing pin (1 piece)	Standard	Standard	Standard
Infinite Strain Free Plan Achromatic Objective (Transmitted)	4×/0.10 W.D=30.0mm	Standard		Standard
	10×/0.25 W.D=10.2mm	Standard		Standard
	20×/0.40 W.D=12mm	Optional		Optional
	40×/0.65(S) W.D=0.7mm	Standard		Standard
	60×/0.80 (S) W.D=0.3mm	Optional		Optional
	100×/1.25 (S, Oil) W.D=0.2mm	Standard		Standard
LWD Infinite Strain Free Plan Achromatic Objective (Reflected)	5×/0.13 W.D=24mm		Standard	Standard
	10×/0.25 W.D=10.2mm		Standard	Standard
	20×/0.40 W.D=12mm		Standard	Standard
	50×/0.70 (S) W.D=1.95mm		Standard	Standard
LWD Infinite Strain Free Semi-APO Plan Objective (Reflected)	5×/0.15 W.D=20mm		Optional	Optional
	10×/0.3 W.D=11mm		Optional	Optional
	20×/0.45 W.D=3.0mm		Optional	Optional
	50×/0.80 (S) W.D=1..0mm		Optional	Optional
LWD Infinite Strain Free APO Plan Objective (Reflected)	50×/0.80 (S) W.D=1..0mm		Optional	Optional
Nosepiece	Backward Sextuple Nosepiece with DIC Slot, center adjustable	Standard	Standard	Standard

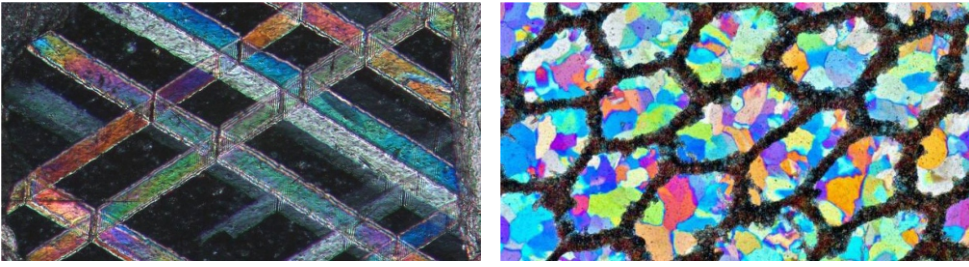
## Specification

Condenser	Strain-free swing out condenser N.A.0.9/0.25	Standard		Standard
Transmitted Illumination	Koehler Illumination 12V/100W Halogen Lamp (Input voltage: 100V-240V)	Standard		Standard
Reflecting Illumination	Koehler Illumination 12V/100W Halogen Lamp (Input voltage: 100V-240V)		Standard	Standard
Focusing	Coaxial Coarse & Fine Adjustment, Fine Stroke 0.1mm, Coarse Stroke 35mm, Fine Division 0.002mm, Sample Space 50mm	Standard	Standard	Standard
Stage	High-precision Revolving Round Stage, Diameter 190mm, Center Adjustable, 360° Rotatable, Minimum Division 1°, Vernier Division 6', 45° Click Stop Knob	Standard	Standard	Standard
Attachable Stage	Attached Mechanical Stage with X-Y movement, Moving Range 30mm×30mm	Optional	Optional	Optional
Analyzer Unit	Rotatable 360°, Minimum Scale Reading: 0.1°(Vernier Scale)	Standard	Standard	Standard
Conoscopic oSTMervation	Switch between Orthoscopic and Conoscopic OSTMervation, Bertrand Lens Position Adjustable	Standard	Standard	Standard
Optical Compensator	$\lambda$ Plate(First Class Red), $1/4\lambda$ Plate, Quartz Wedge Plate	Standard	Standard	Standard
Transmitted Polarizer	With Scale, Rotatable 360°, Can Be Locked	Standard		Standard
Reflected Polarizer	Fixed Polarizer		Standard	Standard
Filter	Blue	Standard	Standard	Standard
	Amber	Optional	Optional	Optional
	Green	Optional	Optional	Optional
	Neutral	Optional	Optional	Optional
	1×	Optional	Optional	Optional
C-mount	0.5×	Optional	Optional	Optional

## Application

STM-5095 series polarizing microscopes are ideal instrument in geology, petroleum, coal, mineral, chemicals, semiconductor and pharmaceutical inspection fields. They are widely used in academic demonstration and scientific research areas.

## Sample Pictures



## Dimension

