

BS-5095 Research Polarizing Microscope



BS-5095



BS-5095RF



BS-5095TRF

**Introduction**

BS-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.

## Feature

### 1. 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.

### 2. Excellent Optical Quality and Strong Stability

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



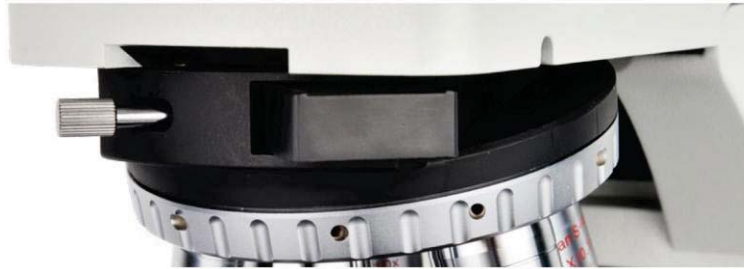
- (5) High-precision Revolving Round Stage, diameter 190mm, pre-centered, attachable X-Y stage is optional.



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



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



Reflected illuminator with polarizer and beam splitter, field and aperture diaphragms adjustable. Pluggable polarizer is removable for natural light observation and easy to be replaced. Removable beam splitter is designed for ensuring that all imaging light can enter the observation tube during transmission observation, improving the image quality under interference and orthogonal polarization.

### 3. Viewing head



Tilting Seidentopf Trinocular Viewing Head(optional) can be operated in a more comfortable position.

### 4. Rotary observation module



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

### 5. ECO function



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

## Application

BS-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.

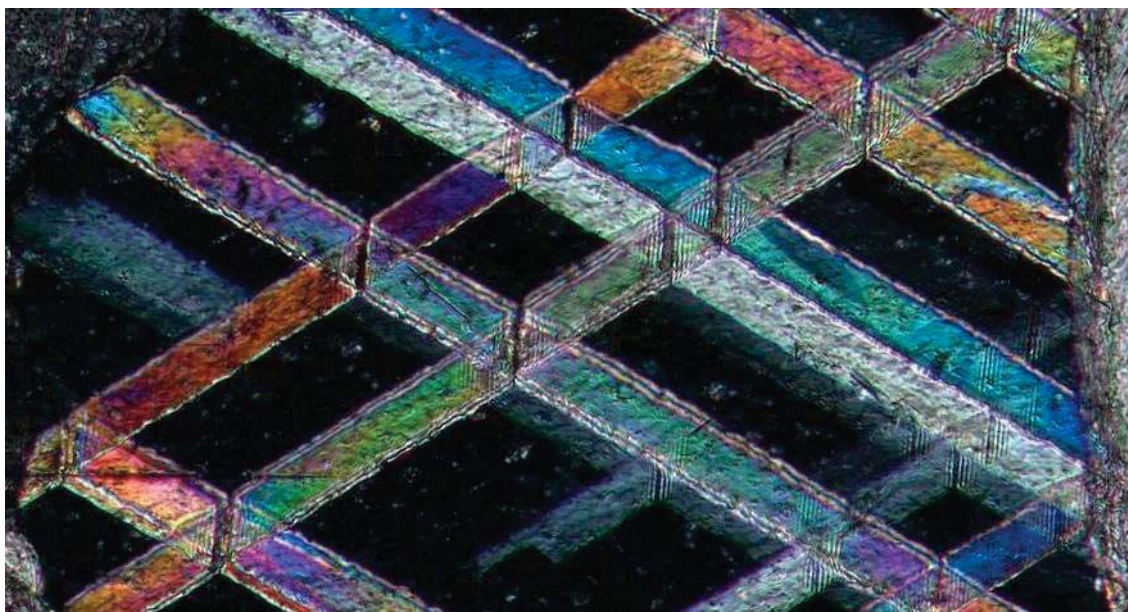
## Specification

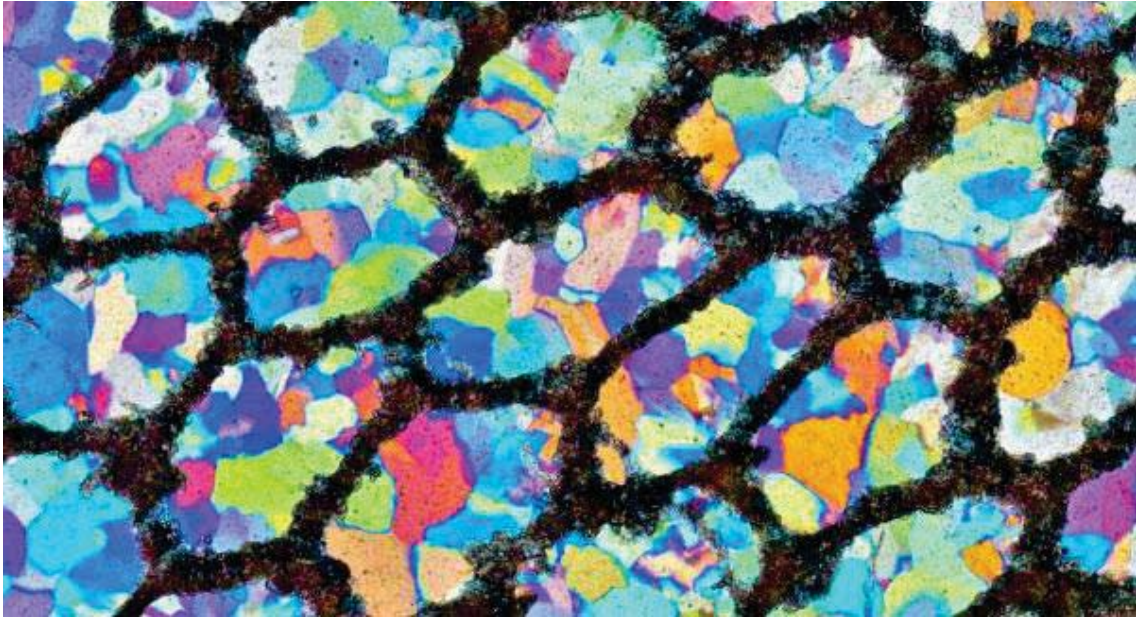
Item	Specification	BS-5095	BS-5095RF	BS-5095TRF	
Optical System	Infinite Color Corrected Optical System	●	●	●	
Viewing Head	30° inclined trinocular head, 360° rotatable, interpupillary distance: 47-78mm	●	○	○	
	0-35° inclined trinocular head, 360° rotatable, interpupillary distance: 47-78mm	○	●	●	
Eyepiece	Wide field eyepiece WF10X/22mm	●	●	●	
	Wide field eyepiece WF10X/22mm, with reticle	●	●	●	
	SW10×/25mm	○			
	SWF10×/25 with cross line reticle, with fixing pin	○			
	SWF10×/25 with cross line, with fixing pin	○			
	SWF10×/25 with grid reticle, with fixing pin	○			
Objective	Infinite Strain Free Plan Achromatic Objective (Transmitted)	4X/NA=0.10, WD=30.0mm	●	○	
		10X/NA=0.25, WD=10.2mm	●	○	
		20X/NA=0.40, WD=12.0mm	●	○	
		40X (S)/NA=0.65, WD=0.7mm	●	●	
		60X (S)/NA=0.80, WD=0.85mm	○	○	
		100X (S, Oil)/NA=1.25, WD=0.2mm	●	●	
	LWD Infinite Strain Free Semi-APO Plan Objective (Reflected)	5X/NA=0.15, WD=20.0mm		●	●
		10X/NA=0.30, WD=11.0mm		●	●
		20X/NA=0.45, WD=3.0mm		●	●
	LWD Infinite Strain Free APO Plan Objective (Reflected)	50X (S)/NA=0.80, WD=1.0mm		●	●
100X (S)/NA=0.90, WD=1.0mm			●	●	
Nosepiece	Backward quintuple nosepiece, center adjustable	●	●	●	
Intermediate Device	Intermediate device with removable internal Bertrand lens, analyzer and compensators. Built in Brewster lens, turntable switching mechanism (center and focal length adjustable).	●	●	●	
	Gyps 1λ	●	●	●	
	Mical 1/4λ	●	●	●	
	Quartz Wedge	●	●	●	
Stage	High-precision revolving round stage, diameter 190mm, center adjustable, 360° rotatable, minimum division 1°, Vernier division 6', 45° click stop knob	●	●	●	
	Attached mechanical stage with X-Y movement, moving range	●	●	●	

	30mm*30mm			
Illumination	Reflected illumination, 12V 100W halogen lamp, input voltage: 100V-240V		○	○
	Reflected illumination, 5W LED lamp, input voltage: 100V-240V		●	●
	Transmitted illumination, 12V 100W halogen lamp, input voltage: 100V-240V	●		○
	Transmitted illumination, 3W LED lamp, input voltage: 100V-240V	○		●
Condenser	Strain-free swing out condenser N.A.0.9/0.25	●	●	●
Polarizing Attachment	Analyzer, 360° rotatable, minimum scale 0.1°	●	●	●
	Polarizer, fixed		●	
	Polarizer, 360° rotatable, 0° position adjustable, under condenser	●		●
Filters	Blue filter, for reflected	○	○	○
	Green filter, for reflected	○	○	○
	Amber filter, for reflected	○	○	○
	Neutral filter, for reflected	○	○	○
	ND6, for reflected	○	○	○
	ND25, for reflected	○	○	○
	Blue filter, for transmitted	○	○	○
	Green filter, for transmitted	○	○	○
	Amber filter, for transmitted	○	○	○
	ND6, for transmitted	○	○	○
	ND25, for transmitted	○	○	○
C-mount Adapter	0.5X C-mount adapter	○	○	○
	0.7X C-mount adapter	○	○	○
	1X C-mount adapter	●	●	●

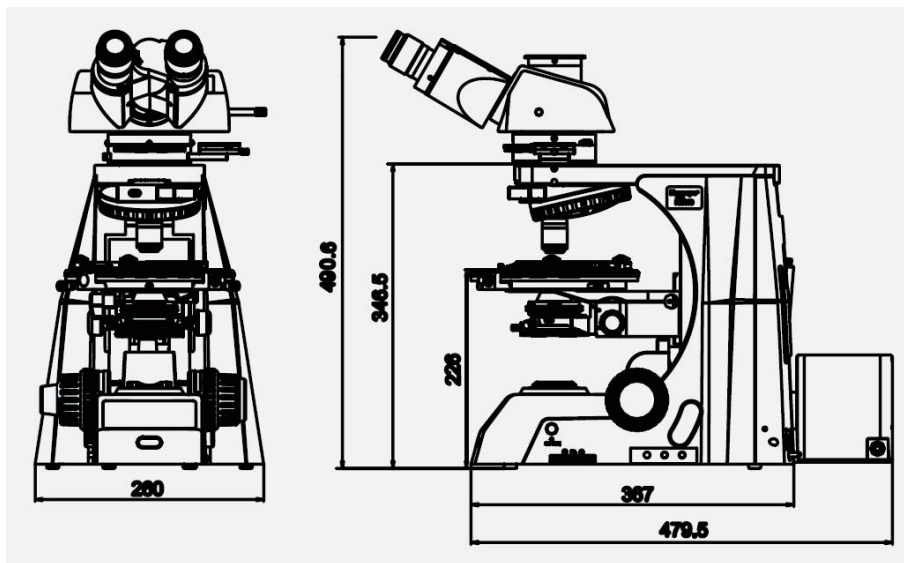
Note: ● Standard Outfit, ○ Optional

## Sample Image

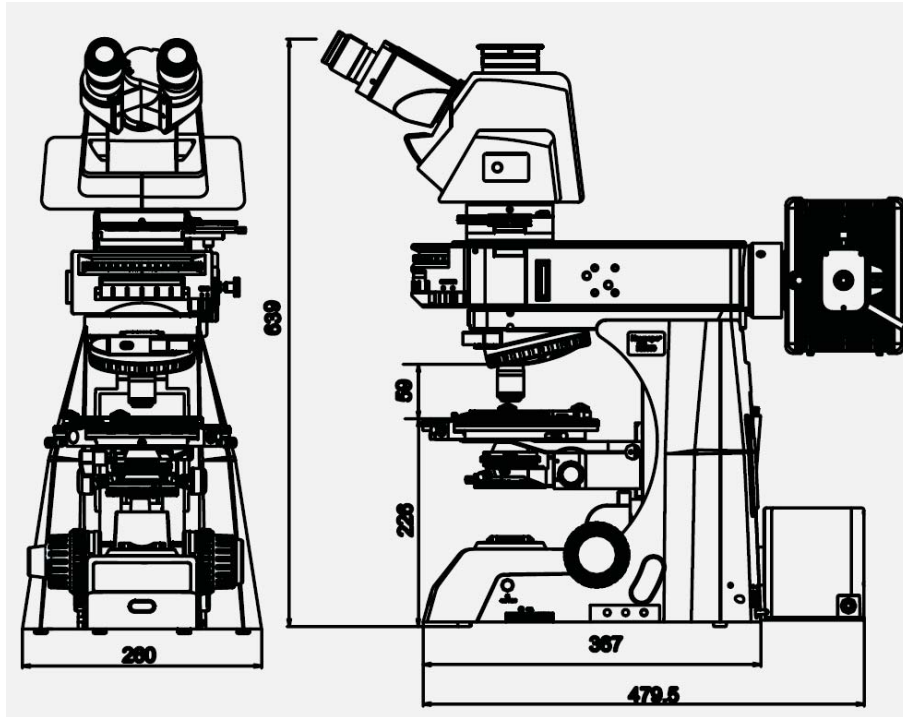




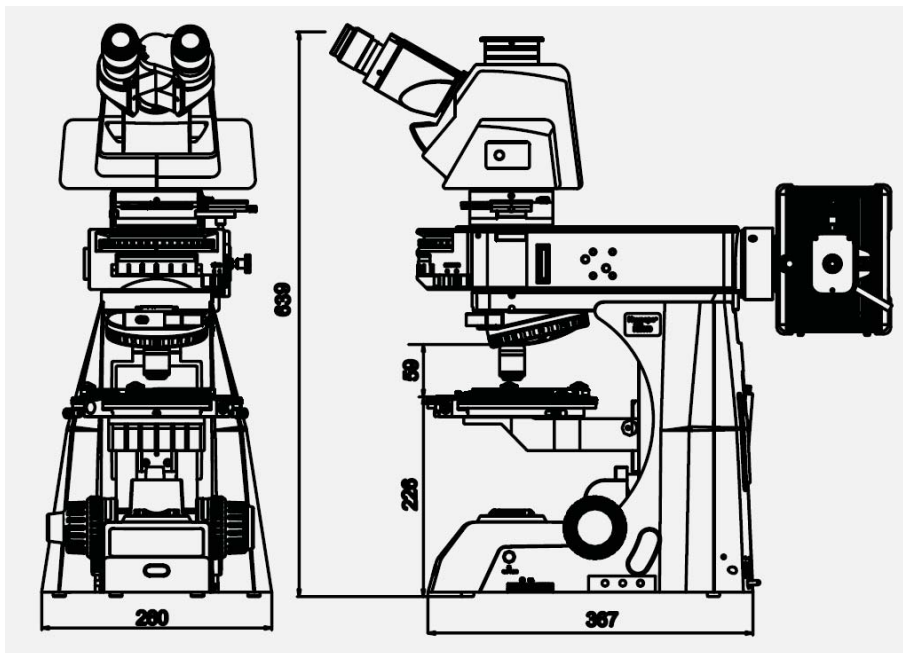
## Dimension



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Unit: mm