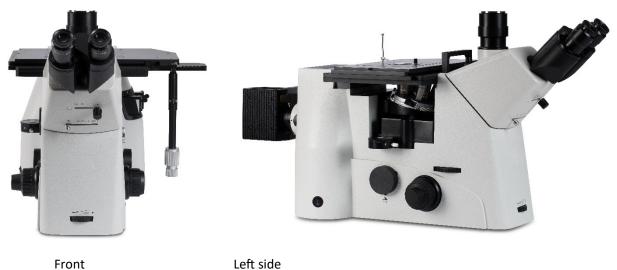




## **BS-6045 Research Inverted Metallurgical Microscope**



BS-6045



#### Introduction

BS-6045 research inverted metallurgical microscope has been developed for research with a number of pioneering designs in appearance and functions, with wide field of view, high definition and bright&dark field semi-apochromatic and apochromatic metallurgical objectives and ergonomical operating system, it could provide a perfect research solution.





#### Features

#### 1. Excellent Infinite Optical System.

With the excellent infinite optical system, semi-APO and APO objectives, BS-6045 Inverted metallurgical microscope provides high resolution, high definition and chromatic aberration corrected images.

#### 2. 3-layers Mechanical Stage.

3 layers mechanical stage 340x230mm, moving range 130x85mm, Maximum support 30kgs. The spacious workspace for large and heavy samples. Anti-scratching stage surface, suitable for observation of various materials and shapes specimens. At the same time, there are many kinds of specimen plates, it can observe and analyze all kinds of small specimens. The flexible low-position knob is accurate and comfortable when moving sample.



3. Clear Imaging, Reliable result.





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#### (1) NIS45 Semi-APO and APO Objectives.

The NIS45 Infinite LWD Plan BF&DF 5×, 10×, 20× Semi-APO and 50×, 100x APO objective lens can reproduce the natural color accurately by using carefully selected high-transparent glass and advanced coating techniques.

#### (2) 3 Camera Interface Available.

Camera adapters can be connected on trinocular head and at both sides. Used to connect camera and various application extension accessories. By means of a light splitting lever, to realize splitting ratio of different optical paths. At the same time, it can be equipped with 0.4x, 0.5x, 1x C-mount adapters and difference cameras to meet different image requirements.





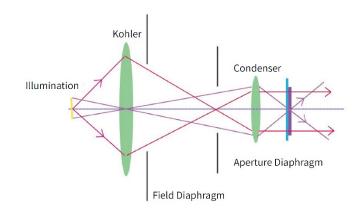


# (3) Internal Magnification Changeover. With built-in turret magnification changeover structure, 1X and 1.5X magnification can be changed accordingly. Provide higher magnification and more details of the specimens.

#### (4) Kohler Illumination.

Kohler Illumination is regarded as the perfect illumination system for microscopes, which provides perfect bright and uniform field of view, and makes it possible to expand the functions of microscope at the same time.





#### 4. High flexibility, offer more possibilities.





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#### (1) Various Sliders for High Quality Image.

Field diaphragm and iris diaphragm can be used to adjust the field of view and the sharpness of the imaging, also adjust aberration. The iris diaphragm and filter can easily adjust the brightness or color of light. The analyzer slider can adjust the polarizing observation and DIC image. Multiple sliders are used in combination to ensure high quality images.







# (2) Six-Position Observation Module Turntable Structure.

It adopts a six-position observation module turntable structure, the observation modules can be easily taken out from the turntable and convenient to place each kind of observation module. When using, just turn the dial to change observation mode, accurate positioning and easy to use.





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#### 5. Ergonomic Design, Comfortable Operation.



(1) Low-position Control Knobs. Coaxial focusing system with low-position X-Y coaxial control knobs, so the head can be placed on the table. The ergonomic design provides operators comfortable experience.

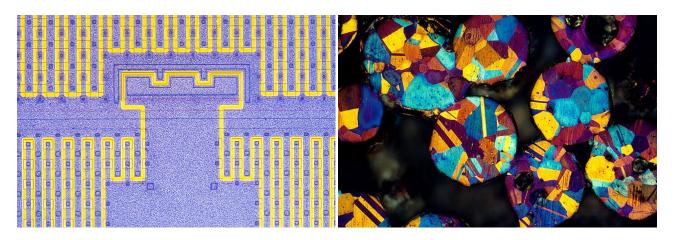


(2) 45° Inclined Viewing Head. No matter standing or sitting, users can observe in a natural posture, which reduce fatigue. The interpupillary distance and Diopter of the eyepiece can be adjusted to user's requirement.

#### 6. Various Observation Methods.

With the development of scientific research, single observation mode is not enough for complex scientific research and testing requirement. BS-6045 can achieve multiple observation requirements, regardless of Bright Field, Dark Field, DIC, Polarizing and Fluorescent observation, all can get clear, high definition and complete image.

Observation Mode	Bright Field	Dark Field	DIC(optional)	Fluorescent(optional)	Polarizing
BS-6045	v	V	v	V	V

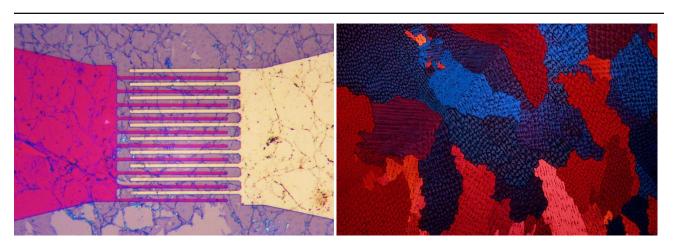


Electronic chip, Reflection, Bright field

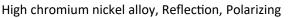
Bronze powder, Reflection, Polarizing

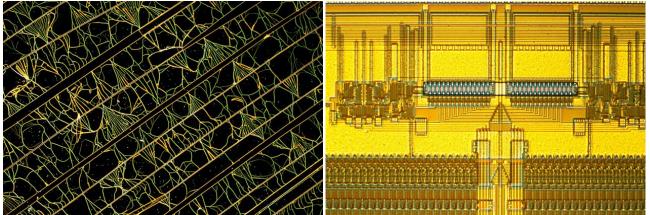






Electrode, Reflection, Bright field





Embossing of silicon nitride, Reflection, Dark field

Integrated circuit, Reflection, DIC

## Application

BS-6045 research inverted metallurgical microscope is widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, it also can be used in electronics, chemical and semiconductor industry, such as wafer, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, other non-metallic materials and so on.

### Specification

Item	Specification				
Optical System	NIS45 Infinite Color Corrected Optical System (Tube length: 200mm)				
Viewing Head	Siedentopf Trinocular Head, inclined at 45°, interpupillary distance 47mm-78mm; 3 position beam split ratio: 50/50, 100/0, 0/100				
Eyepiece	Super wide field plan eyepiece SW10×/22mm, diopter adjustable				
	Super wide field plan eyepiece SW10×/25mm, diopter adjustable				
	Wide field plan eyepiece WF15×/16mm, diopter adjustable				
	Wide field plan eyepiece WF20×/12mm, diopter adjustable				
Objective	NIS45 Infinite LWD Plan Semi-	5×/NA=0.15, WD=20mm	•		





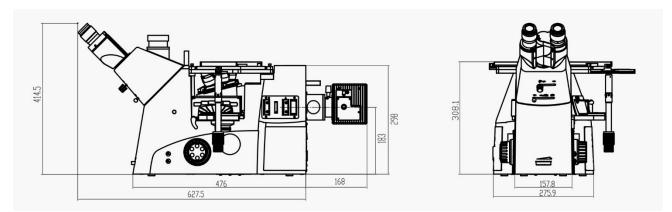
	ABO Objective (RE & DE)	10×/NA=0.3, WD=11mm	•		
	APO Objective (BF & DF)	20×/NA=0.45, WD=3.0mm	•		
	NIS45 Infinite LWD Plan APO	50×/NA=0.8, WD=1.0mm	•		
	Objective (BF & DF)	100×/NA=0.9, WD=1.0mm	•		
Nosepiece	Sextuple Nosepiece (with DIC slot)	extuple Nosepiece (with DIC slot)			
	Reflected light 12W/100W halogen lamp, Koehler illumination, with 6 position turrets				
	BF1 bright field module (has function of reducing the light intensity and anti-glare)				
	BF2 bright field module				
Reflected	DF dark field module				
Illumination	Color correction yellow, green filter, Built-in blue filter				
	Built-in ND6, ND25 filter and color correction filter				
	Four-band fluorescent module				
	100W HBO Lamp				
Focusing	Low-position coaxial coarse and fine focusing, fine division 2µm, Moving range 9mm				
Stage	Three-layer mechanical stage, stage size: 340×230mm, movement range 130×85mm, flexible knob. Different size small stages could be attached to main stage		•		
Auxiliary Stage	Φ20 Field aperture, Φ28 Field aperture, Drop-shaped field aperture				
Internal magnification	1×, 1.5×				
Image Output	Output changeable (Left side / Right side / Eyepiece tube) Splitting ratio: Left / Eyepiece =100/0; Right / Eyepiece =80/20; Left(or Right) / Eyepiece =0/100		•		
DIC Kit	DIC 5×-20× (can be used for 5×, 10	50×/NA=0.8, WD=1.0mm     100×/NA=0.9, WD=1.0mm     ot)     gen lamp, Koehler illumination, with 6 position turrets     ction of reducing the light intensity and anti-glare)     Iter, Built-in blue filter     or correction filter     fine focusing, fine division 2µm, Moving range 9mm     tage size: 340×230mm, movement range 130×85mm, flexible     could be attached to main stage     perture, Drop-shaped field aperture     tight side / Eyepiece tube)     100/0; Right / Eyepiece =80/20; Left(or Right) / Eyepiece =0/100     10×, 20× objectives)     0×, 100× objectives)	0		
DIC KIL	DIC 50×-100× (can be used for 50×,		0		
Delectricing Kit	Polarizer for reflected illumination				
Polarizing Kit	Analyzer for reflected illumination,	a lamp, Koehler illumination, with 6 position turrets on of reducing the light intensity and anti-glare) r, Built-in blue filter correction filter e focusing, fine division 2µm, Moving range 9mm e size: 340×230mm, movement range 130×85mm, flexible nuld be attached to main stage ture, Drop-shaped field aperture ht side / Eyepiece tube) /0; Right / Eyepiece =80/20; Left(or Right) / Eyepiece =0/100 ×, 20× objectives) , 100× objectives)	•		
	0.4× C-mount Adapter				
	0.5× C-mount Adapter				
	1× C-mount Adapter				
Other Accessories	Dust Cover				
	Power Cord				
	Calibration slide 0.01mm				
	Specimen Presser				

Note: • Standard Outfit, • Optional





## Dimension



Unit: mm

System Diagram





