

## BS-8045 Gemological Microscope



BS-8045B



BS-8045T

### Introduction

A gemological microscope is the microscope used by jewelers and gem stone experts, the gemological microscope is the most important tool in their jobs. BS-8045 gemological microscope is especially designed to view precious stone samples and the pieces of jewelry that are contained in them, like diamonds, crystals, gems and other jewelry. These microscopes are equipped with multiple illumination systems to enhance the image of the samples.

### Feature

#### 1. Zoom optical system 1:6.7.

With 0.67x-4.5x zoom lens and 10x/22mm eyepiece, the magnification 6.7x-45x fulfills the needs of jewelry appearance observation and internal fine identification. The working distance is 100mm. Excellent optical system provides high definition, high contrast and high resolution images. And with a large depth of field, the final imaging has a strong 3D effect.

#### 2. Multi-functional base and stand.

Professional jewelry microscope stand, with the base rotation, observation angle adjustment, body lifting and other functions. It can be adjusted according to the different habits and different samples.

#### 3. Abundant illumination and imaging mode.

With fluorescent and halogen illumination, you can achieve parallel light, oblique light, transmitted light and other lighting methods, to achieve bright field, dark field and polarized light observation. Thus, you can analyze various components and characteristics of gem. Transmitted illumination adopts 6V/30W halogen lamp, darkfield, brightness adjustable. The upper illumination is 7W daylight fluorescent lamp, it can reflect the true color of the surface of the jewelry, the lamp can be adjusted to any angle you need. You also can choose 1W white LED illumination for the upper illumination, the LED lamp has long life and energy-saving features.

**4. Various auxiliary objectives are available.**

According to the size of the samples and the required magnification, you can choose a variety of auxiliary objectives to change the system’s working distance and magnification.

**5. Trinocular head and C-mount adapters are optional.**

Trinocular head is available for different cameras which can be connected to LCD monitor or computer for image analysis, processing and measurement. Different C-mount adapters are available according to different camera sensor size.

**6. Polarizing device is optional.**

Put the polarizer in the middle stage and screw the analyzer into the thread in the bottom of the viewing tube, then polarizing observation can be fulfilled. The analyzer can be rotated 360°.

**7. Gem clamp.**

Both sides of the stage have mounting holes for gem clamp. There are 2 types of clamps, flat clamp and wire clamp. Flat clamp can hold small samples stably, wire clamp can hold larger samples and can ensure enough light.

**Application**

BS-8045 gemological microscopes are precision microscope that are capable of inspecting diamonds, emeralds, rubies and all other types of precious stones. They are usually used to identify the authenticity of gemstones, they are widely used in design, produce and repair of jewelry.



**Specification**

Item	Specification	BS-8045B	BS-8045T
Viewing Head	Binocular Viewing Head, Inclined at 45°, Interpupillary Distance: 52-76mm	●	
	Trinocular Viewing Head, Inclined at 45°, Interpupillary Distance: 52-76mm		●
Eyepiece (with diopter adjustment)	WF10×/22mm	●	●
	WF15×/16mm	○	○
	WF20×/12mm	○	○
Zoom Objective	Zoom range 0.67×-4.5×, zoom ratio 1:6.7, working distance 100mm	●	●
Auxiliary Objective	0.75×, W.D.:177mm	○	○

	1.5x, W.D.:47mm	○	○
	2x, W.D.:26mm	○	○
Bottom Illumination	6V 30W halogen lamp, Bright and dark field illumination, brightness adjustable	●	●
Upper Illumination	7W Fluorescent lamp	●	●
	1W single LED Light, brightness adjustable	●	●
Focusing	Focusing range: 110mm, torque of focusing knob can be adjusted	●	●
Gem Clamp	Wire clamp	●	●
	Flat clamp	○	○
Stage	At both side, there is a gem clamp fixing holes for you to choose	●	●
Stand	0-45° Inclined	●	●
Base	360° rotatable base, input voltage: 110V-220V	●	●
Polarizing Kit	Polarizer and analyzer	○	○
C-mount Adapters	0.35x/0.5x/0.65x/1x C-mount adapter		○

Note: ● Standard Outfit, ○ Optional