

## BSC-300 Comparison Microscope



### Introduction

BSC-300 Comparison Microscope can observe two objects with a pair of eyepieces at the same time. Using field cutting, jointing and overlapping methods, two (or more two) objects can be compared together. BSC-300 has clear image, high resolution, and can identify tiny differences between objects accurately. It is basically used for forensic science and police departments.

BSC-300 has excellent optical performance and complete comparison function, it is suitable for various comparison demands, so it has a very wide range of applications.

### Features

1. Can be used for Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation.
2. With sextuple nosepiece, comes with 0.5X, 1X, 1.5X, 2X, 4X, 6X objectives. The nosepiece has stop clicks, comfortable to change the objectives.
3. Stage size: 100mm\*100mm, moving range: the moving range of transverse, longitudinal, vertical directions are 0-54mm, horizontal rotation 0°-360°, stage inclined to any direction of 0°-45°.
4. Two stages can be adjusted horizontally at the same time, moving range: 0-62mm.

5. Coarse lifting range of 0-62mm.
6. Equipped with 12V/50W air-cooled lamps, large power LED lamps, light intensity is adjustable.
7. Polarizing attachment, used to eliminate stray and glare light.
8. Coaxial illumination device, used for observation of deep hole, small hole and smooth surface.
9. With C-mount video attachment, digital cameras can be used for synchronous observation, images and videos can be saved and analyzed.
10. With Photo attachment, Nikon or Olympus DSLR cameras can be used to take pictures.



Small Bullet Holder



Filters



Polarizing Attachment

## Application

BSC-300 is the ideal device for Public Security Bureaus, procuratorates, courts and their colleges to compare and identify the bullet, tool marks, fingerprints, seals, text, signatures, drawings, and bank notes. It also can be applied to electronic, biochemical, agriculture, archaeology, banking, Customs and industries or sectors who have the requirements to detect or identify objects.

## Specification

Item	Description	BSC-300
Total Optical Magnification	6X-144X	●
Viewing Head	Seidentopf trinocular head, inclined at 45°, interpupillary distance 48-75mm	●
Eyepiece	Wide field eyepiece WF10X/22, diopter adjustment	●
	Wide field eyepiece WF20X/12, diopter adjustment	●
Field of View	Φ2mm~Φ60mm	●
Comparison Mode	Left or right single view field observation, overlapping view field observation, segmentation and jointing view field observation	●
Objective	0.5X, 1X, 1.5X, 2X, 4X, 6X	●
Auxiliary Objective	0.4X, 2X auxiliary objective (with auxiliary objective, the total magnification can be extended to 2X-240X)	○
Nosepiece	Sextuple nosepiece	●
Stage	Manually operate stage, moving range: X: 54mm, Y: 54mm, Z: 54mm	●
	Two stage horizontal moving range: 62mm. The coarse vertical lifting range: 62mm	●
Illumination	High power LED illumination, brightness and angel adjustable	●
	Side illumination, 12V/50W air cooled reflecting lamps	●
	Polarizing attachment	●

	Coaxial illumination device	●
	Bottom transmitted light source, white light	○
	Five-band light source	○
Photo Attachment	Photo attachment for DSLR digital camera (Nikon, Canon)	●
Video Adapter	C-mount for digital cameras	●
Software	Professional criminal investigation image processing software	○
Bullet Holder	Small bullet holder	●
	Semicircle arc bullet holder	○

## Eyepieces and Objective Parameters

Objective	Bridge	Magnification/FOV (mm)		Working Distance (mm)
		10X Eyepiece	20X Eyepiece	
0.5X	1.2X	6X/Φ60	12X/Φ24	143
1X		12X/Φ21	24X/Φ12	102
1.5X		18X/Φ15	36X/Φ8	
2X		24X/Φ11	48X/Φ6	
4X		48X/Φ6	96X/Φ3	
6X		72X/Φ3.9	144X/Φ2	

Dimension: 39cm(L)\*38cm(W)\*70cm(H)

## Sample Images

