

## BSC-200 Comparison Microscope



### Introduction

BSC-200 Comparison Microscope can observe two objects with a pair of eyepieces at the same time. Using field cutting, docking and overlapping methods, two (or more) objects can be compared together. BSC-200 has clear image, high resolution, and can identify tiny differences between objects accurately. It is basically used for forensic science and police departments.

### 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 changeable objectives, right and left objectives can be adjusted to consistency.
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 (optional), used to eliminate stray and glare light.
8. Coaxial illumination device (optional), 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-200 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

Model		BSC-200
Total Optical Magnification	9.6X-115.2X	●
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	●
Comparison Mode	Left or right single view field observation, overlapping view field observation, segmentation and jointing view field observation	●
Objective	0.8X, 1.2X, 2X, 3X, 4.8X changeable objective	●
Auxiliary Objective	0.4X, 2X Auxiliary Objective (with auxiliary objective, the total magnification can be extended to 3.2X-192x)	○
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)		Video Attachment	Photo Attachment	Working Distance (mm)
		10X Eyepiece	20X Eyepiece			
0.8X	1.2X	9.6X/φ28	16X/φ15	Actual Measured Value	1.92X-12X	102
1.2X		14.4X/φ18	28.8X/φ10			
2X		24X/φ11	48X/φ6			
3X		36X/φ7	72X/φ4			
4.8X		57.6X/φ4.6	115.2X/φ2.5			

Note: With 0.8X objective, 10X eyepiece, the magnification=0.8X\*1.2X\*10X=9.6X

## Sample Images

