COMPARISON MICROSCOPES & VIDEO SPECTRAL COMPARATOR

1. BSC-200 Comparison Microscope

Introduction

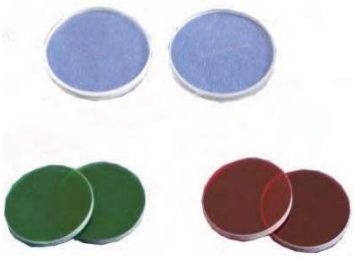
BSC-200 Comparison Microscope can observe two objects with a pair of eyepieces at the same time. Using field cutting, docking and overlapping methods, two (or more) objects can be compared together. BSC-200 has clear image, high resolution, and can identify tiny differences between objects accurately.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

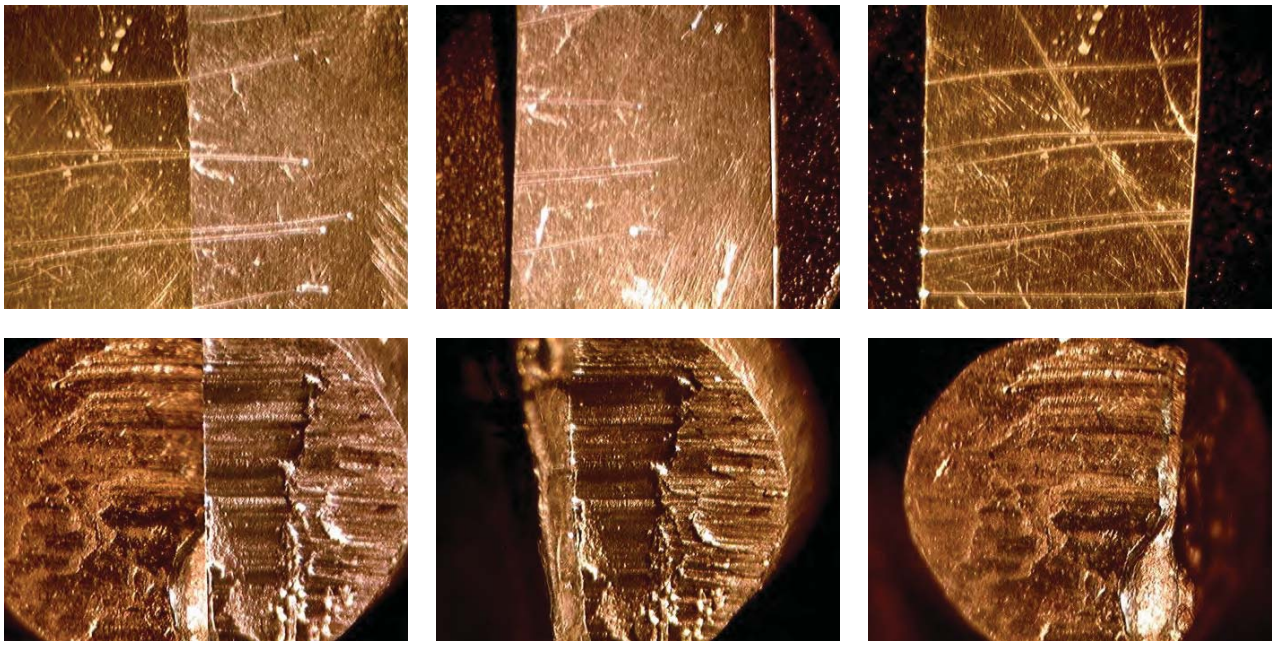
Model		BSC-200
Total Optical Magnification	9.6X-115.2X	●
Viewing Head	Seidentopf trinocular head, inclined at 45°, interpupillary Distance 48-75mm	●
Eyepiece	Wide field eyepiece WF10X/22, diopter adjustment	●
	Wide field eyepiece WF20X/12, diopter adjustment	●
Comparison Mode	Left or right single view 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-192×)	○
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



2. BSC-220 Comparison Microscope

Introduction

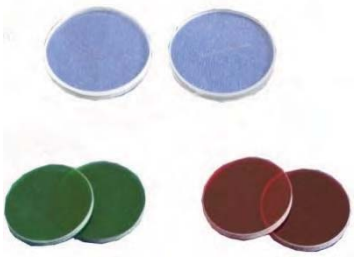
BSC-220 Comparison Microscope can observe two objects with a pair of eyepieces at the same time. Using field cutting, docking and overlapping methods, two (or more) objects can be compared together. BSC-200 has clear image, high resolution, and can identify tiny differences between objects accurately. 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 DLSR cameras can be used to take pictures.

Small Bullet Holder



Filters

Polarizing Attachment

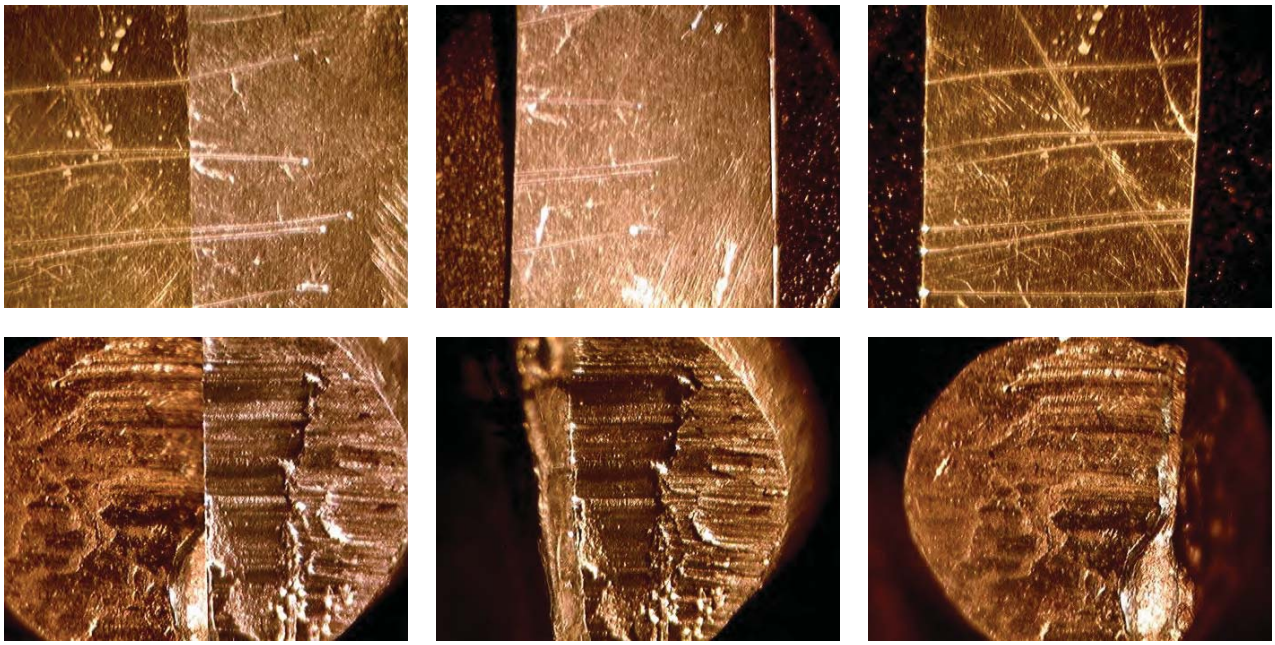
Application

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-220
Total Optical Magnification	8.4X-108X (Bridge magnification: 1.2X)	●
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	0.7-4.5X continuous zoom	●
Auxiliary Objective	0.4X, 2X Auxiliary Objective (with auxiliary objective, the total magnification can be extended to 3.36X-216X)	○
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	○

Sample Images



3. 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 DLSR 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

4. BSC-320 Digital Comparison Microscope

Introduction

BSC-320 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. The comparison mode switching and stages movement can be controlled both manually and by PC. BSC-320 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. The comparison mode switching can be controlled both manually and by PC.
2. With changeable objectives, right and left objectives can be adjusted to consistency.
3. Stage size: 125mm*130mm. 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. The movement including X, Y, Z-axis moving, horizontal rotation and the synchronous movement of the two stages, can be controlled both manually and by PC.
7. Equipped with 12V/50W air-cooled lamps, large power LED lamps, light intensity is adjustable.
8. Polarizing attachment, used to eliminate stray and glare light.
9. Coaxial illumination device, used for observation of deep hole, small hole and smooth surface.

10. With C-mount video attachment, digital cameras can be used for synchronous observation, images and videos can be saved and analyzed.
11. With Photo attachment, Nikon or Olympus DLSR cameras can be used to take pictures.

Small Bullet Holder

Filters

Polarizing Attachment

Application

BSC-320 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-320
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	●
Comparison Mode	Left or right single view field observation, overlapping view field observation, segmentation and jointing view field observation, switched manually or with PC	●
Objective	0.5X, 1X, 1.5X, 2X, 4X, 6X changeable objective	●
Auxiliary Objective	0.4X, 2X Auxiliary Objective (with auxiliary objective, the total magnification can be extended to 4X-240X)	○
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 on the stage, white light	●
	Five-band light source	○
Camera	USB 2.0 CMOS digital camera, with C-mount interface, 1/2.8” sensor, 3.1MP	●
Photo Attachment	Photo attachment for DSLR digital camera (Nikon, Canon)	●
Video Adapter	C-mount for digital cameras	●

PC	Computer, G5905/4G/1TB, 19.5inch screen	●
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	

Sample Images

Spectral Comparator

5. VSC-200 Video Spectral Comparator

Introduction

VSC-200 Video Spectral Comparator is a device mainly used for identifying alterations, covering up, fading, forgery, adding strokes, handwriting indentation, anti-counterfeiting hidden marks, etc. of documents, receipts and files. VSC-200 Video Spectral Comparator includes host, CCD camera and criminal investigation image processing software.

Features

1. Light source system

Uniform strong light source: 1* 24V/150W tungsten halogen lamp, equipped with a dedicated cooling fan, condenser lens, and heat-insulating glass.

UV long wave: 365nm: 1* 10W, for visible fluorescence observation.

Visible side light: 1* 12V/50W LED lamp, capable of detecting infrared absorption and reflection, with angel adjustable lamp holder, for detecting indentation.

Perspective white light lamp: 2* 20W, capable of detecting watermarks.

Excitation filters for visible light sources: using high transmittance, narrow half width bandpass filters at 000nm, 365nm, 440nm, 530nm, 555nm, 585nm and 615nm.

Reception filters: 000nm, 450nm, 565nm, 700nm, 720nm, 800nm and 900nm cut-off long wave pass filters.

2. Image system

The high-sensitivity camera: a 1/3" CCD color camera with a resolution of 800 TV lines and a sensitivity of 0.0001 Lux. High resolution and sensitivity for both near-infrared and visible light spectral ranges.

Motorized zoom lens: The relative aperture of lens is 1.2. The aperture, focusing, and zoom magnification (1X-30X) are all electrically adjustable.

3. Image processing software

The storage/printing function: it can store all images and data obtained by the video spectral comparator during the inspection process, and can be used in conjunction with a printer to print out the required images.

The comparison function: it can perform horizontal and vertical stitching or overlapping comparison between two detected images. Static and dynamic images can be compared in real-time.

Gray value measurement: it can measure the gray value of any specified point or area in the image. And the grayscale changes at that location under various detection conditions can be displayed in the form of curves. This method is particularly advantageous for identifying subtle grayscale differences between different texts in the image formed by the inspected document that are difficult for the human eye to detect.

Depth of field automatic synthesis

Processing Blurred image

Motion blur processing, geometric correction of deformed images and fast image processing

Other image processing: It can do reflectivity and absorbance measurement, image measurement and annotation, extraction of the main part of the stamps, curve and linear image shaping, universal cutting comparison, image ghosting and other various image processing methods.

4. Main function

Multiple excitation light and receiving filter combinations are used to test the fluorescence differences of different inks.

The combination of reflective light source and receiving filter is used to test the absorption and reflection differences to different wavelength bands of light of different inks.

The combination of reflective light source and receiving filter is used to test the penetration effect to different infrared light bands of different inks.

The combination of transmitted light source and receiving filter is used to test the penetration effect to different infrared light bands of different inks.

The side light source illuminates the document in a grazing incidence manner to inspect the scratch and cutting marks on the document.

The transmitted light source illuminates the document from below upwards to inspect the traces of cutting and patching on the document.

Application

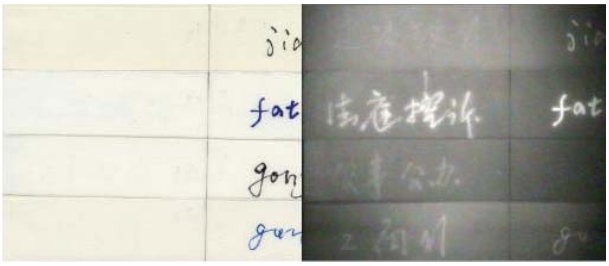
VSC-200 is mainly used for identifying alterations, covering up, fading, forgery, adding strokes, handwriting indentation, anti-counterfeiting hidden marks, etc. of documents, receipts and files. It is an ideal choice for Public Security Bureaus, procuratorates, courts and their colleges.

Specification

Item	Specification	BSC-200
Host	The host	●
Light source system	Uniform strong light source, 1* 24V/150W tungsten halogen lamp, equipped with a dedicated cooling fan, condenser lens, and heat-insulating glass.	●
	UV long wave, 365nm, 1* 10W, for visible fluorescence observation.	●
	Visible side light, 1* 12V/50W LED lamp, capable of detecting infrared absorption and reflection, with angel adjustable lamp holder	●
	Perspective white light lamp, 2* 20W, capable of detecting watermarks.	●
	Excitation filters for visible light sources, using high transmittance, narrow half width bandpass filters at 000nm, 365nm, 440nm, 530nm, 555nm, 585nm and 615nm.	●
	Reception filters, 000nm, 450nm, 565nm, 700nm, 720nm, 800nm and 900nm cut-off long wave pass filters.	●
Image System	The high-sensitivity camera, a 1/3” CCD color camera with a resolution of 800 TV lines and a sensitivity of 0.0001 Lux. High resolution and sensitivity for both near-infrared and visible light spectral ranges.	●
	Motorized zoom lens: The relative aperture of lens is 1.2. The aperture, focusing, and zoom magnification (1X-30X) are all electrically adjustable.	●
PC	Laptop	○
Software	Professional criminal investigation image processing software	●

Sample Images

Adding Handwriting



Fading Handwriting

Handwriting Observation

Cover up Handwriting

6. VSC-300 Video Spectral Comparator

Introduction

VSC-300 Video Spectral Comparator is identifying alterations, covering up, adding, repairing, fading, forgery of documents, and encrypting documents, seals and receipts, fluorescence inspection, handwriting indentation, forging marks, fingerprint traces, trace evidence, ink detection, seal comparison, image measurement, image processing, etc. VSC-300 Video Spectral Comparator includes host, digital camera, laptop and criminal investigation image processing software.

Features

1. Light Source system

Uniform strong light source: 1* 24V/150W tungsten halogen lamp, equipped with a dedicated cooling fan, condenser lens, and heat-insulating glass.

UV shortwave: 254nm. 1* 10W, for visible fluorescence observation.

UV long wave: 365nm: 1* 10W, for visible fluorescence observation.

Diffuse reflection fluorescent lamp: 220V LED warm light lamp.

Visible side light: 1* 12V/50W LED lamp, capable of detecting infrared absorption and reflection, with angel adjustable lamp holder, for detecting indentation.

Perspective UV lamp: 2* 10W, for printing ink.

Perspective white light lamp: 2* 20W, capable of detecting watermarks.

Excitation filters for visible light sources: using high transmittance, narrow half width bandpass filters at 000nm, 365nm, 450nm, 465nm, 515nm, 530nm, 565nm, 580nm and 900nm.

Reception filters: 000nm, 415nm, 450nm, 565nm, 700nm, 720nm, 740nm, 800nm and 900nm cut-off long wave pass filters.

2. Image system

The high-sensitivity camera: a USB 3.0 CMOS camera with 1/2.8" sensor and 2MP resolution.

Output: HD video output up to 1080p 60fps, supporting Windows, Linux.

Motorized zoom lens: 30X optical zoom (4.3-129mm) and 12X digital zoom.

Camera	
Item	**Specification**
Sensor	1/2.8" SONY CMOS sensor
Effective Pixels	1980(H)*1080(V)
Video Output	1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps
Minimum Illuminance	Color 0.01lux/ DSS 0.0013 lux
	Mono 0.0015lux/ DSS 0.0008lux
Signal to noise ratio	More than 50dB (AGC close)
Magnification	30X optical zoom, 12X digital zoom
Focal Length	F=4.3mm-129mm
Aperture	F1.6 (wide)-F1.8 (tele)
Field of View Angle	63.7
Interface	USB 3.0
Supporting Operation System	Windows, Linux
Power Supply	DC 6-12V
	300mA
Working Temperature	-10°C~+50°C/ 0%~90% RH
Size	59.2mm (W)*62.2mm (H) *85.6mm (D)
Weight	0.28kg

3. Image processing software

The storage/printing function: it can store all images and data obtained by the video spectral comparator during the inspection process, and can be used in conjunction with a printer to print out the required images.

The comparison function: it can perform horizontal and vertical stitching or overlapping comparison between two detected images. Static and dynamic images can be compared in real-time.

Gray value measurement: it can measure the gray value of any specified point or area in the image. And the grayscale changes at that location under various detection conditions can be displayed in the form of curves. This method is particularly advantageous for identifying subtle grayscale differences between different texts in the image formed by the inspected document that are difficult for the human eye to detect.

Depth of field automatic synthesis

Processing Blurred image

Motion blur processing, geometric correction of deformed images and fast image processing

Other image processing: It can do reflectivity and absorbance measurement, image measurement and annotation, extraction of the main part of the stamps, curve and linear image shaping, universal cutting comparison, image ghosting and other various image processing methods.

4. Main function

Multiple excitation light and receiving filter combinations are used to test the fluorescence differences of different inks.

The combination of reflective light source and receiving filter is used to test the absorption and reflection differences to different wavelength bands of light of different inks.

The combination of reflective light source and receiving filter is used to test the penetration effect to different infrared light bands of different inks.

The combination of transmitted light source and receiving filter is used to test the penetration effect to different infrared light bands of different inks.

The side light source illuminates the document in a grazing incidence manner to inspect the scratch and cutting marks on the document.

The transmitted light source illuminates the document from below upwards to inspect the traces of cutting and patching on the document.

Application

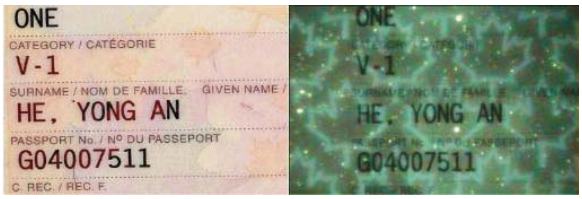
VSC-300 is mainly used for identifying alterations, covering up, adding, repairing, fading, forgery of documents, and encrypting documents, seals and receipts, fluorescence inspection, handwriting indentation, forging marks, fingerprint traces, trace evidence, ink detection, seal comparison, image measurement, image processing, etc. It is an ideal choice for Public Security Bureaus, procuratorates, courts and their colleges. 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	Specification	BSC-200
Host	The host	●
Light source system	Uniform strong light source, 1* 24V/150W tungsten halogen lamp, equipped with a dedicated cooling fan, condenser lens, and heat-insulating glass.	●
	UV shortwave, 254nm. 1* 10W, for visible fluorescence observation.	●
	UV long wave, 365nm, 1* 10W, for visible fluorescence observation.	●
	Diffuse reflection fluorescent lamp, 220V LED warm light lamp.	●
	Visible side light, 1* 12V/50W LED lamp, capable of detecting infrared absorption and reflection, with angel adjustable lamp holder	●
	Perspective UV lamp, 2* 10W, for printing ink.	●
	Perspective white light lamp, 2* 20W, capable of detecting watermarks.	●
	Excitation filters for visible light sources, using high transmittance, narrow half width bandpass filters at 000nm, 365nm, 440nm, 530nm, 555nm, 585nm and 615nm.	●
	Reception filters, 000nm, 450nm, 565nm, 700nm, 720nm, 800nm and 900nm cut-off long wave pass filters.	●

Image System	The high-sensitivity camera, a 1/3" CCD color camera with a resolution of 800 TV lines and a sensitivity of 0.0001 Lux. High resolution and sensitivity for both near-infrared and visible light spectral ranges.	•
	Motorized zoom lens: The relative aperture of lens is 1.2. The aperture, focusing, and zoom magnification (1X-30X) are all electrically adjustable.	•
PC	Laptop	•
Software	Professional criminal investigation image processing software	•

Sample Images



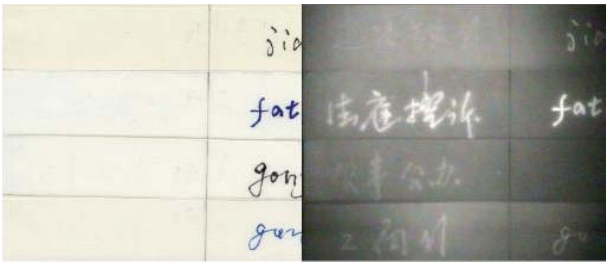
Passport

RMB

Hong Kong and Macao Pass

Hong Kong Dollar

Adding Handwriting



Fading Handwriting

Handwriting Observation

Cover up Handwriting