

Comparison microscope

CM-3492 DIGITAL COMPARISON MICROSCOPE

- Optical Magnification of Lines 0.83X~10X
- Dual Lens 8.0MP+8.0MP Preview And Snapshot
- 7 Colors Illuminations To Display More Details
- X/Y/Z/R Axis Fine Tuning Workbench
- Extra-hard Wear-resistant Aluminum Alloy Housing
- Dedicated Measurement Software



CM-3492 Digital Forensic Comparison Microscope Specification

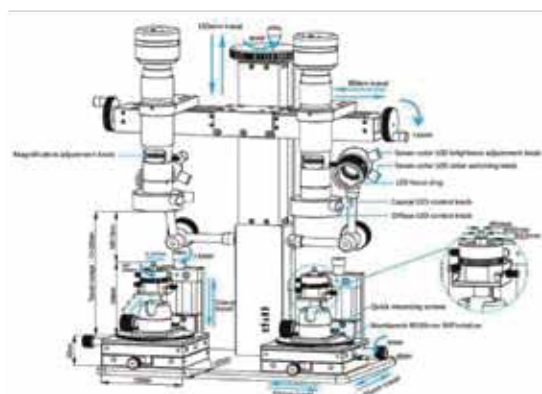
Hardware configuration

Image Sensor	SONY IMX274 COMS Sensor
Expose Mode	Rolling Shutter
Maximum Resolution	3840 x 2160 (8,294,400 pixels)
Sensor Optical Format	1/2.5"
Pixel Size	1.62 μ m x 1.62 μ m
Dynamic Range	>80dB
SNRmax	\geq 50dB
Spectral Characteristics	380-650nm
Exposure Capability	Real-time Auto, Single Auto, Manual Adjustment
White Balance	Real-time Auto, Single Auto, Manual Adjust R G B Separately
Record Format	Snapshot

Optical Parameters

Optical Magnification Of	0.83x~10x
Optical Resolution Of	5 μ m
Working Distance(mm)	72mm
Observation Range (mm)	0.65x0.36~8.2x4.6mm
Comprehensive Magnification	Full Screen Display On A 21-inch 16:9 Minitor:57x~715x
	Full Screen Display On A 17-inch 16:9 Minitor:46x~578x
Working Stage	Square Manual Working Stage 120*120*43mm, Moving Range 55*55*55mm
	Joint Left/Right Moving Range 80mm, Joint Up/Down Range 150mm
	Clamp Working Stage Dia.100mm, 360° Rotatable
	Round Titable Working Stage Moving Range 0-14.5mm, 45°-90° Inclined,

Ring LEDs(Coaxial & Diffuse LED) Parameters	
Power	<3W
Input Voltage	DC 5V
Dimming Method	0-100% Linear Adjustment
Centric Brightness	Coaxial: ≥12000LX (Height 100mm)
	Diffuse Reflection: ≥42000LX (Height 100mm)
Number Of LEDs	Coaxial Light: 13 Small Angle Highlighting Lamp Beads
	Diffuse Light: 40 Bright White LEDs
Color Temperature	5000K~5500K
Adjustment Method	Separate Control (Independently Controlled By One Knob For One
Seven-color LED Parameters	
Power	<3W
Input Voltage	DC 5V
Dimming Method	0-100% Linear Adjustment
Comprehensive Magnification	Red: 610um
	Yellow: 600um
	Warm White: 586um
	Green: 528um
	White: 494um
	Purple: 458um
	Blue: 470um
Adjustment Method	Brightness And Light Switching Are Controlled By Different Knobs
Software Environment	
Windows System Demand	Microsoft ® Windows ® XP / 7 / 8 / 8.1/10(32 & 64 bit)
	CPU: Dual-core 3.0 GHz Or More CPU
	Memory: 4G Or More
	Network:10/100/1000Mbps Compatitable Interface
	At Least 10 GB Available Hard Disk Space
Operating Environment	
Operating Temperature	0°C~ 40°C
Storage Temperature	-20°C~ 60°C
Operating Humidity	30~60%RH
Storage Humidity	10~80%RH



CM-3183 MOTORIZED FORENSIC DIGITAL COMPARISON MICROSCOPE

- Total Optical Magnification 2x~240x
- LWD Infinity Plan Achromatic Objective
- Left/Right, Split And Overlapping Image Comparison
- Separation Line Adjusting System
- Magnification Correcting System
- Full Motorized Function by Software Control



CM-3183 Motorized Digital Forensic Comparison Microscope, With Motorized Working Table

Magnification	2x~240x
Head	0-45° Titable Bionocular Head, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
	WF20x/12mm, High Eyepoint
Nosepiece	6 Hole Click Stop Nosepiece
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x, 6x
	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Seperation Line Adjust System In Back, With Special Designed Adjust Driver
Working Stage	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
	Round Titable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
Light Source	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Transmit Bottom Light (Built-in Working Stage)
	Ultraviolet Light Lens, 2pcs
Adapter	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
	0.5x CCD Adapter For Digital Camera, 1pc Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)

CCD Camera	Built-in 3.0M High Resolution Color CCD Camera,USB 2.0 Output,2048*1536 Pixels,Pixel Size 3.2*3.2μm	
Software	Professional Forensic Image Analysis Software	
	Motorized/Manual Viewfield Changeover Full /Split /Overlapping Image	
	Motorized/Manual Control Working Stage X/Y/Elevation 3D Movement	
	Motorized/Manual Control Round Working Stage Rotation +/- Direction	
	Motorized/Manual Control To Change Objective Magnification	
Working Table	A18.1830 Include Motorized Working Table,	
Power	80~240V Wide Range Voltage	
Bullet Holder	Standard Bullet Holder 2 Sets,Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects	
Dimension	Instrument Size 40*60*72cm	
Optional Accessories		
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813

Objective	Eyepiece 10X	Eyepiece 20X	Photograpging & Video System	Working Distance
	Mag./Viewfield φ22mm	Mag./Viewfield φ12mm		
1X/0.03	10X/φ22	20X/φ12	Measure According to Monitor & Digital Camera	102mm
1.5X/0.04	15X/φ15	30X/φ8		
2X/0.05	20X/φ11	40X/φ6		
4X/0.072	40X/φ5.5	80X/φ3		
6X/0.075	60X/φ3.7	120X/φ2		
0.5X/0.02	5X/φ44	10X/φ24		138mm

CM-3182 MOTORIZED FORENSIC COMPARISON MICROSCOPE

- Total Optical Magnification 2x~240x
- LWD Infinity Plan Achromatic Objective
- Left/Right, Split And Overlapping Image Comparison
- Separation Line Adjusting System
- Magnification Correcting System
- Full Motorized Function by Software Control



CM-3182 Motorized Digital Forensic Comparison Microscope, With Motorized Working Table

Magnification	2x~240x
Head	0-45° Titable Bionocular Head, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
	WF20x/12mm, High Eyepoint
Nosepiece	6 Hole Click Stop Nosepiece
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x, 6x
	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Seperation Line Adjust System In Back, With Special Designed Adjust Driver
Working Stage	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
	Round Titable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
Light Source	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Transmit Bottom Light (Built-in Working Stage)
	Ultraviolet Light Lens, 2pcs
Adapter	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
	0.5x CCD Adapter For Digital Camera, 1pc Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)

CCD Camera	Built-in 3.0M High Resolution Color CCD Camera,USB 2.0 Output,2048*1536 Pixels,Pixel Size 3.2*3.2μm	
Software	Professional Forensic Image Analysis Software	
	Motorized/Manual Viewfield Changeover Full /Split /Overlapping Image	
	Motorized/Manual Control Working Stage X/Y/Elevation 3D Movement	
	Motorized/Manual Control Round Working Stage Rotation +/- Direction	
	Motorized/Manual Control To Change Objective Magnification	
Power	80~240V Wide Range Voltage	
Bullet Holder	Standard Bullet Holder 2 Sets,Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects	
Dimension	Instrument Size 40*60*72cm	
Optional Accessories		
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813

Objective	Eyepiece 10X	Eyepiece 20X	Photograpging & Video System	Working Distance
	Mag./Viewfield φ22mm	Mag./Viewfield φ12mm		
1X/0.03	10X/φ22	20X/φ12	Measure According to Monitor & Digital Camera	102mm
1.5X/0.04	15X/φ15	30X/φ8		
2X/0.05	20X/φ11	40X/φ6		
4X/0.072	40X/φ5.5	80X/φ3		
6X/0.075	60X/φ3.7	120X/φ2		
0.5X/0.02	5X/φ44	10X/φ24		138mm



CM-3185 FORENSIC COMPARISON MICROSCOPE

- Total Optical Magnification 3.8x~230x
- Left/Right, Split And Overlapping Image Comparison
- Separation Line Adjusting System
- Magnification Correcting System
- Halogen,LED,Polarizing & All Kinds Light Source



CM-3185 Digital Forensic Comparison Microscope Specification

Magnification	3.8x~230x
Head	Binocular Head, 30° Incline, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
	WF20x/12mm, High Eyepoint
Objective	5 Step Zoom Plan Objective 0.8x, 1.25x, 2x, 3.2x, 4.8x
	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line	Separation Line Adjust System In Back, With Special Designed Adjust Driver
Working Stage	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
	Round Titable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
Light Source	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Ultraviolet Light Lens, 2pcs
Adapter	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
	0.5x CCD Adapter For Digital Camera, 1pc
Power	80~240V Wide Range Voltage
Bullet Holder	Standard Bullet Holder 2 Sets
Dimension	Instrument Size 37*30*63cm

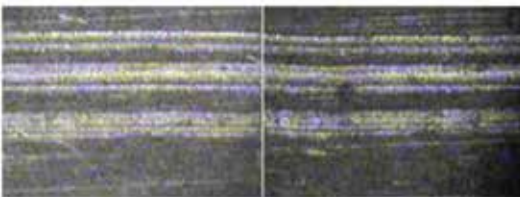
Optional Accessories		
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813
LCD Pad Digital Camera	9.7" LCD Pad Digital Camera, Android System, See A18.1825-LCD	A59.3520

Mag./Viewfield		Eyepiece 10X	Eyepiece 20X	Photo Adapter	Video Adapter	Working Distance
Objective	Bridge Body					
0.8X	1.2X	9.6X/φ28	19.2X/φ17	2.5X	0.5X	101mm
1.25X		15X/φ18	19.2X/φ17			
2X		24X/φ11	48X/φ7			
3.2X		36X/φ7	77X/φ4.5			
4.8X		58X/φ4.2	115X/φ2.3			
Total Magnification with 0.8x objective, auxiliary lens 0.4x, WF10x eyepiece, magnification = $0.8 \times 0.4 \times 10 \times 1.2 = 3.8x$						

Adjust the white balance



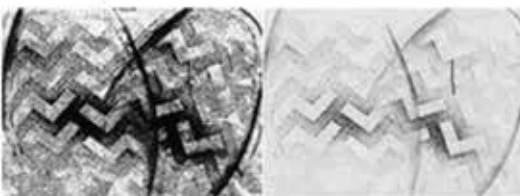
Wipe traces cutting docking



Bucket of pillow distortion correction



Histogram enhancement



CM-3188 FORENSIC COMPARISON MICROSCOPE

- Total Optical Magnification 2x~240x
- LWD Infinity Plan Achromatic Objective
- Left/Right, Split And Overlapping Image Comparison
- Separation Line Adjusting System
- Magnification Correcting System
- Halogen,LED,Polarizing & All Kinds Light Source



CM-3188 Forensic Comparison Microscope Specification

Magnification	2x~240x
Head	Binocular Head, 30° Incline, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
	WF20x/12mm, High Eyepoint
Nosepiece	6 Hole Click Stop Nosepiece
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x,6x
	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Working Stage	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
	Round Titable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
Light Source	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Ultraviolet Light Lens, 2pcs
Adapter	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
	0.5x CCD Adapter For Digital Camera,1pc
CCD Camera	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)
	Built-in 3.0M High Resolution Color CCD Camera,USB 2.0 Output,2048*1536 Pixels,Pixel Size 3.2*3.2µm
Power	80~240V Wide Range Voltage

Bullet Holder	Standard Bullet Holder 2 Sets, Bullet Holder Set for all kinds of Bullet, Cartridge	
Dimension	Instrument Size 43*34*65cm	
Optional Accessories		
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821
Software	Professional forensic image analysis software	A30.1821
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813
Digital Camera	9.7" LCD Pad Digital Camera, Android System, See A18.1828-LCD	A59.3520

Mag./Viewfield	Eyepiece 10X	Eyepiece 20X	Photo Adapter	Video Adapter	Working Distance
Objective					
1X	10X/φ21	20X/φ12	1.8X	0.5X	101mm
1.5X	15X/φ15	30X/φ8	2.7X		
2X	20X/φ11	40X/φ6	4X		
4X	40X/φ6	80X/φ3	7X		
6X	60X/φ3.9	120X/φ2	11X		
0.5X	5X/φ60	10X/φ24	0.9X		143mm



- This model is an ideal instrument for police stations.
- Procuratorial organs and courthouses to identify finger prints, shot marks, tool traces, seals and writings.
- For colleges and universities to use for educational purposes.
- It is also suitable for banks, archeological studies, electronics researches, biological - science and agriculture, etc.

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Optical Emission Spectrophotometer	DSC/TGA	Semi Auto Bio Chemistry Analyzer	HEMA 2062 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon 3800
						
Fully Automated CLIA	NOVA-2100 Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	TOC Analyzer	Laser Particle Size Analyzer	Ion Chromatograph	Water purification system

Regulatory compliances



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