

MICROSCOPES CATALOG



Microscopes that make everyday lab work and teaching easier.

ABOUT OUR COMPANY

A Story About The Company

Schneider Gemmologie GmbH is a provider of gemmological microscopes and optical tools based in Idar-Oberstein, Germany. The company was acquired by Schmidt & Bender as a daughter company, combining Schneider's long gemmological tradition with Schmidt & Bender's strength in high-end optical engineering. We focus on robust, application-oriented microscopes and accessories for education and quality laboratories. Our instruments are designed for clear, reliable observation of gemstones and fine details, while remaining easy to use in everyday practice. Together with Schmidt & Bender, we are expanding our product range and international reach to better support customers in related precision inspection fields.

SG MICROVISION CMOS MICROSCOPE CAMERA (CSG001-2025)

**From eyepiece to screen in
one step.**

Our SG MicroVision CMOS camera series offers four USB 2.0 models from 5.1 MP to 10 MP, all with color CMOS sensors, binning modes and multi-platform software support for still images and video. They share the same simple USB power and passive cooling concept, so you can choose resolution and performance without changing handling or system requirements.



Technical specification

Specification	SG MicroVision 10	SG MicroVision 9	SG MicroVision 8	SG MicroVision 5.1
Sensor & format	10 MP, IMX577 (C), 1/2.3" (5.56 × 4.26 mm)	9 MP, special (C), 1/2.4" (5.41 × 4.05 mm)	8 MP, special (C), 1/2.5" (5.06 × 3.79 mm)	5.1 MP, AR0521 (C), 1/2.5" (5.70 × 4.28 mm)
Pixel size	1.55 × 1.55 µm	1.55 × 1.55 µm	1.55 × 1.55 µm	2.2 × 2.2 µm
Sensitivity / dark signal	250 mV @ 1/30 s; 0.25 mV @ 1/30 s	250 mV @ 1/30 s; 0.25 mV @ 1/30 s	250 mV @ 1/30 s; 0.25 mV @ 1/30 s	18.8 ke-/lux; 73 dB DR; 40 dB SNR
Max resolution (fps)	3.3 fps @ 3584 × 2748	3.5 fps @ 3488 × 2616	4 fps @ 3264 × 2448	7.0 fps @ 2592 × 1944
Medium resolution (fps)	12 fps @ 1792 × 1374	13 fps @ 1744 × 1308	15 fps @ 1600 × 1200	27.7 fps @ 1296 × 972
Low resolution (fps)	53 fps @ 896 × 684	55 fps @ 872 × 654	62 fps @ 800 × 600	100.5 fps @ 648 × 486
Binning	1 × 1, 2 × 2, 4 × 4	1 × 1, 2 × 2, 4 × 4	1 × 1, 2 × 2, 4 × 4	1 × 1, 2 × 2, 4 × 4
Exposure time	0.4 ms – 2000 ms	0.4 ms – 2000 ms	0.4 ms – 2000 ms	0.2 ms – 2000 ms

✓ Additional Hardware Specs

- Spectral Range: 380–650 nm (with IR-cut filter); AR coating for monochromatic cameras
- White Balance: ROI-based or manual temperature/tint adjustment
- Color Processing: Ultra Fine Color Engine
- SDK Support: Multi-platform (Windows/Linux/macOS/Android) with Native C/C++, C#/VB.NET, Python, Java, DirectShow, TWAIN
- Recording: Still images and video
- Cooling: Passive natural convection

✓ Operating Environment

- Temperature:
 - Operating: -10°C to +50°C
 - Storage: -20°C to +60°C
- Humidity (non-condensing):
 - Operating: 30–80% RH
 - Storage: 10–60% RH



✓ Power & Software

- Power: DC 5V via USB (PC-powered)
- OS Compatibility: Windows XP/Vista/7/8/10 (32/64-bit), macOS, Linux
- PC Requirements:
 - CPU: Intel Core 2 2.8 GHz or higher
 - RAM: 2 GB minimum
 - USB: High-speed USB 2.0 port
 - Display: 17-inch or larger
 - Drive: CD-ROM

✓ Standard Package Contents

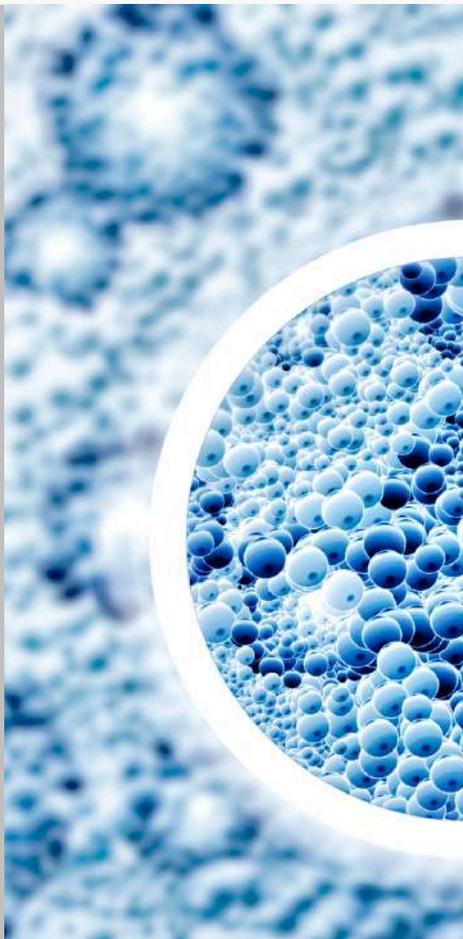
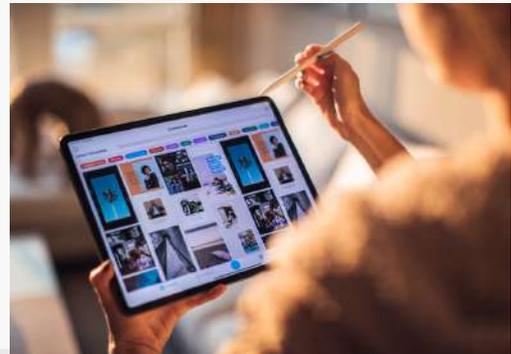
- USB 2.0 digital camera
- High-speed USB 2.0 cable

SG TOUCHVIEW ANDROID MICROSCOPE CAMERA (ASG001-2025)

Android powered precision for
Every Microscope

✓ Device & Imaging

- **Device type** : Integrated HD digital camera tablet running Android 11
- **Imaging sensor** : 1/1.8" CMOS image sensor
- **Resolution** : 8 megapixels with 4K UHD output support
- **Pixel size** : 2.0 × 2.0 μm



✓ Display & System

- Display: 10.5" high-definition capacitive touchscreen
- Operating system: Android 11

✓ Connectivity & Interfaces

- Wireless LAN: Dual-band 2.4 GHz / 5 GHz with Wi-Fi 6 support
- Bluetooth: Version 5.0
- Interfaces: 2 × USB 3.0, 1 × USB 2.0, HDMI output, Gigabit Ethernet

✓ Power & Media

- Power supply: 12V DC, 2A
- Image format: 8.0 MP JPEG still images
- Video output: Full HD 1080p

✓ Image Control & Operation

- Image controls: Brightness, contrast, saturation, and color temperature adjustment

- Camera functions: Image mirroring, image flipping, freeze frame, monochrome mode
- User operation: Touchscreen control with mouse and keyboard support, Android interaction

☑ Physical & Compatibility

- Dimensions: 237 × 169 × 10.5 mm
- Weight: Approximately 700 g
- Compatibility: Suitable for all trinocular microscopes



☑ Storage & Measurement

- Data storage: Photo and video recording with image preview
- Annotation tools: Coordinate points, crosshair overlay, coordinate axes, text annotations
- Linear measurement: Straight lines, curved lines, folded paths, parallel distances, point-to-line measurement
- Geometric tools: Line segment length, fixed-radius circles, 2-point and 3-point circles, concentric circles
- Area measurement: Polygonal and rectangular area calculation
- Measurement software: Built-in S-Eye 2.0 system

SG ZOOM MASTER STEREO MICROSCOPE (SSG002-2025)

Precision 0.8–8× zoom with ergonomic tilting head—
perfect for inspection, assembly and quality control.

✓ Specifications

- **Viewing head:** Tilting binocular head, 0–30° inclination
- **Zoom system:** 0.8×–8× continuous zoom; zoom ratio 1:10
- **Eyepieces (standard):** WF10×/22, diopter adjustable
- **Objective (standard):** 1× plan objective
- **Field of view (with auxiliary lens):** 1.8–55 mm
- **Working distance:** 78 mm standard; 123 mm with 0.5× auxiliary lens
- **Total magnification (with auxiliary lens):** 24×–240×



✓ Stand options (Mechanical)

- **Track stand (without light source):**
 - Base: 12.8" (H) × 9.3" (W) × 11.2" (L)
 - Focus mount/E-arm: 76 mm (standard)
 - Vertical range base → E-arm: 6" to 10"
 - Total weight: 8 lbs
- **Pole stand (Optional):**
 - Base: 12.8" (H) × 9.3" (W) × 11.2" (L)
 - Focus mount/E-arm: 76 mm (standard)
 - E-arm focusing vertical travel: ±1"
 - Vertical range base → E-arm: 3.75" to 11.25"

✓ Optical Technical data (auxiliary lens)

- **Plain 1× auxiliary lens**
 - Working distance: 78 mm
 - 10× eyepiece (@22 mm): Mag: 8–80× / FOV: 25.7–8
 - 15× eyepiece (@16 mm): Mag: 12–120× / FOV: 20–2.0
 - 20× eyepiece (@12.5 mm): Mag: 16–160× / FOV: 15.6–1.6

- Achro 0.5× auxiliary lens
 - Working distance: 123 mm
 - 10× eyepiece (@22 mm): Mag: 4–40× / FOV: 55.5–5.5
 - 15× eyepiece (@16 mm): Mag: 6–60× / FOV: 40–4.0
 - 20× eyepiece (@12.5 mm): Mag: 8–80× / FOV: 31.2–3.2



Optional accessories

- **Eyepieces:** WF15×/16
WF20×/12.5
- **Objective / auxiliary optics:**
Acho 0.5× auxiliary objective
WD = 220 mm
- **Imaging:**
One-way photo port
0.4× CCD/C-mount adapter
- **Stands:**
Track stand (without light source)
pole stand

SG BIOPHASE 1000 INFINITY PHASE CONTRAST MICROSCOPE (BSG004-2025)

Infinity Plan optics with turret phase contrast—reveal live cell detail up to 1000×

✓ General Configuration

- **Centering system:** Integrated centering telescope
- **Filter:** Blue filter
- **Illumination:** 6V 20W halogen lamp, Köhler illumination with field diaphragm, easy bulb replacement
- **Camera interface:** 1× CCD adapter
- **Power supply:** Wide-range input 100–240V
- **Packing details:** Gross weight: 12 kg



✓ Standard Optical Specifications

- **Viewing Head:** Trinocular viewing tube, interpupillary distance 52–75 mm, 30° inclined, trinocular light split 20:80, high-quality prism, diopter adjustment +5 to -5
- **Eyepiece:** WF10×/20 mm, high eye-point up to 21 mm, diopter adjustment ±5
- **Nosepiece:** Quadruple reversed nosepiece
- **Focusing system:** Coaxial coarse and fine focus, low-position design
- **Coarse focus:** Adjustable tension, 14 mm per rotation
- **Fine focus:** 0.1 mm per rotation, minimum reading 1 micron (left-side fine knob)
- **Stage:** Double-layer mechanical stage, size 156 × 138 mm, travel range 76 × 54 mm
- **Stage control:** Low-position X–Y coaxial controls, holds up to two specimen slides
- **Condenser:** Abbe condenser NA 1.25 with iris diaphragm and phase contrast slot
- **Condenser features:** Center-adjustable, color-coded phase rings matched to objective magnifications

☑ Optional accessories

- **Phase contrast condenser:** Multi-purpose phase contrast condenser with dark field opening for PH10×–20×–40×
- **Phase contrast objectives (positive):** Infinity Plan Phase Contrast Objectives: 10×, 20×, 40×, 100×
- **Dark field:** Dry dark field condenser for objectives 4×, 10×, 40×, 100×



☑ Optional accessories

- **Viewing heads:**
Binocular or trinocular head,
30° inclined,
360° rotatable,
interpupillary distance 48–75 mm
- **Additional eyepieces:**
WF10×/22 mm (high eye-point 21 mm);
WF16×/13 mm (high eye-point 21 mm);
Reticle eyepiece WF10×/20 mm
- **Objectives:**
Infinity Plan objectives: 4×, 10×, 20×, 40×, 60×,
100×
- **Mechanical stage upgrade:**
185 × 177 mm stage,
travel range 75 × 50 mm,
low-position left/right hand X–Y controls,
two-slide holder
- **Illumination upgrade:**
LED illumination module, 3W
- **Filters:**
Green filter; Yellow filter; Frosted glass
- **Polarization kit:** Analyzer + polarizer set
- **Phase contrast objective (positive):** 60×
- **Phase contrast objectives (negative):** 10×,
20×, 40×, 80×, 100×
- **Imaging adapters:**
CCD adapter 0.5×;
CCD adapter 0.25×;
Canon EOS digital camera adapter

SG BIOPRO 1000 TRINOCULAR COMPOUND MICROSCOPE (BSG002-2025)

Trinocular Clarity with Advanced Fine Control

The SG BioPro 1000 is a high-quality laboratory compound microscope designed for routine clinical, university and research use, offering reliable imaging with standard achromatic objectives.

✓ Standard Configuration (Included)

- **Optical & Viewing System**
 - Compensation-free trinocular head
 - 30° inclined viewing angle
 - Interpupillary distance: 55–75 mm
 - Eyepiece: WF10X/18 (Ø23.2 mm)
- **Objectives (Standard Achromatic Set)**
 - 4X, 10X, 40X (Spring), 100X (Spring, Oil)
- **Nosepiece**
 - Quadruple revolving nosepiece



- **Stage**
 - Double-layer mechanical stage
 - Size: 180 × 150 mm
 - Travel range: 75 mm × 50 mm
- **Focusing System**
 - Coaxial coarse & fine focusing
 - Rack and pinion mechanism
 - Fine focus precision: 0.002 mm
- **Condenser**
 - ABBE condenser N.A. 1.25
 - Iris diaphragm with filter holder
- **Illumination**
 - High-brightness Köhler illumination
 - 12V / 20W halogen lamp
 - AC 85–230V power input
 - Adjustable brightness control
- **Packaging**
 - Gross weight: 10 kg per set

✓ Optional accessories

- **Eyepieces** : WF16X, WF20X, P16X
- **Additional Objectives**
 - Achromatic 20X, 60X (Spring)
 - Semi-plan: 4X, 10X, 20X, 40X(S), 60X(S), 100X(S)
 - Plan: 4X, 10X, 20X, 40X(S), 60X(S), 100X(S)
 - Infinity Plan Objective 4X

SG DIC VISION TRINOCULAR METALLURGICAL MICROSCOPE (MSG002-2025)

Advanced DIC Precision for Metallurgical Excellence

Standard Configuration (Included)

- **Optical System**
 - Infinite optical system
 - Extra wide field eyepiece EW10×/22
- **Objectives (Infinite Plan Achromatic)**
 - 10× / 0.25 / ∞ / - (BF/DF), WD 10.0 mm
 - 20× / 0.4 / ∞ / 0 (BF/DF), WD 4.30 mm
 - 40× / 0.65 / ∞ / 0.17, WD 0.54 mm
 - 100× / 1.25 / ∞ / 0.17, WD 0.13 mm
 - 5× / 0.12 / ∞ / - (BF/DF), WD 12 mm
 - 40× / 0.6 / ∞ / 0 (BF/DF), WD 2.90 mm
 - 50× / 0.75 / ∞ / 0 (BF/DF), WD 0.32 mm
 - 100× / 0.8 / ∞ / 0 (BF/DF), WD 2 mm

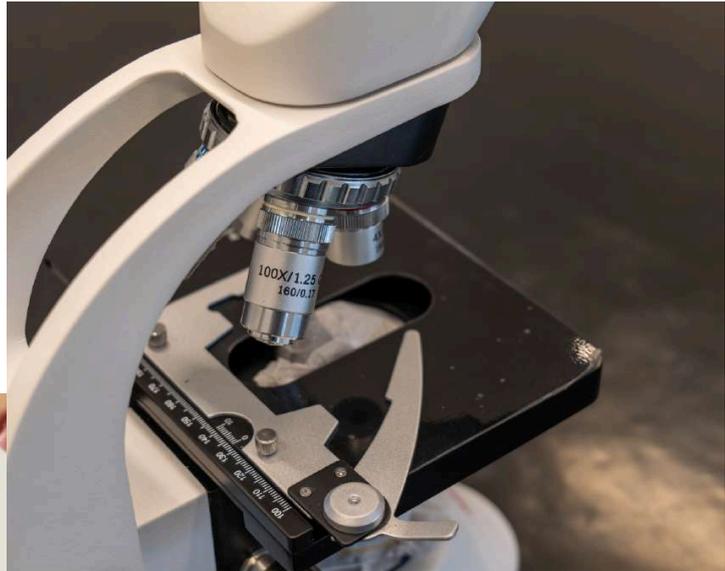


- **DIC System**
 - DIC capability: 20× and 100×
- **Mechanical Specifications**
 - Maximum specimen height: 30 mm
 - Sample height capacity: 50 mm
 - Backward quintuple nosepiece
 - Coaxial coarse and fine focusing
 - Fine focusing precision: 1 μm
- **Viewing Head**
 - Siedentopf trinocular viewing head
 - 30° inclined
 - Interpupillary distance: 48–75 mm

Illumination System

- **Incident (Reflected) Light**
 - 24V / 100W halogen lamp with adjustable brightness
 - Köhler illumination with aspherical condenser
 - Polarizer and analyzer included
 - Integrated device for polarizer and analyzer
 - Filters: Blue, Green, Yellow, Ground glass

- **Transmitted Light**
 - Swing-out condenser NA 0.9 / 0.25
 - 24V / 100W halogen light with aspherical condenser
 - Blue filter
- **Filters**
 - ND25
 - ND6
- **Stage**
 - Double-layer mechanical stage 186 × 138 mm
 - Travel range: 74 mm × 50 mm
 - Glass specimen preparation plate
 - Specimen preparation plate
 - Slide glass
- **Attachments & Interfaces**
 - Specimen presser
 - Photo attachment
 - Video attachment: C-Mount 1× and 0.5×



Optional Accessories

- Infinity Plan Achromatic Objective 40× / 0.6 / ∞ / 0 (BF/DF)
- ND25 filter
- ND6 filter
- DIC 20×
- DIC 100×
- Polarizer & Analyzer
- Integrated device for polarizer and analyzer
- C-Mount 1×
- C-Mount 0.5×
- Specimen presser

SG DIGISCOPE USB MICROSCOPE (DSG001-2025)

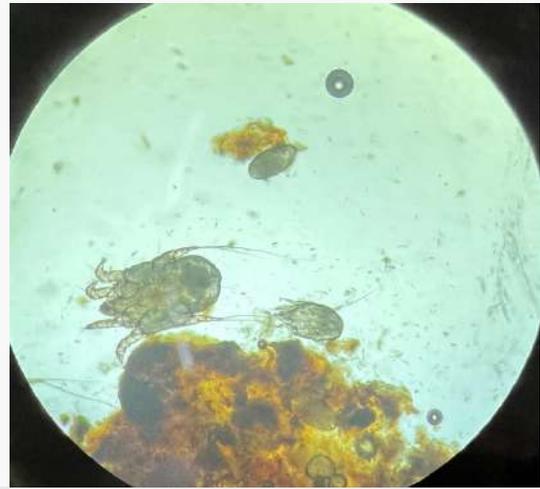
5MP Precision Inspection — Compact, Clear, Connected.

☑ Imaging System

- **Image Sensor:** 5 Mega Pixels (true resolution)
- **Still Image Resolution:** 5M, 3M, 1.3M, VGA, QVGA
- **Video Resolution:** 5M, 3M, 1.3M, VGA, QVGA
- **Frame Rate:** Maximum 30 fps under 600 Lux brightness
- **Magnification Range:** 20× – 200× (up to 300×)

☑ Imaging System

- **Focus Type:** Manual focus
- **Focus Range:** 10 mm – 50 mm



☑ System & Software

- **Video Format:** AVI
- **Photo Format:** JPEG or BMP
- **Light Source:** 8 adjustable LEDs
- **PC Interface:** USB 2.0
- **Windows Compatibility:** Windows 7 / 10 / 11
- **Mac Compatibility:** Mac OS X 10.6 or above
- **OSD Languages:** English, German, Spanish, French, Russian
- **Bundled Software:** MicroCapture with measurement function

☑ Physical Specifications

- **Product Dimensions:** 110 mm (L) × 33 mm (Diameter)
- **Packing Weight:** 900 g

SG BIOVISION 2000 TRINOCULAR LABORATORY MICROSCOPE (BSG003-2025)

Infinity Clarity. Limitless Capability.

✓ Standard Configuration

- **Optical & Viewing System**
 - Trinocular head, 30° inclined, 360° rotatable
 - Interpupillary distance: 52–75 mm
 - Diopter adjustment: +5 to -5
 - Eyepiece: WF10X/20 mm, high eye-point up to 21 mm
 - Filter :Blue filter
- **Objectives (Infinity Plan)**
 - Infinity Plan 4X / 0.1, WD 13.21 mm
 - Infinity Plan 10X / 0.25, WD 5.03 mm
 - Infinity Plan 40X / 0.65, WD 0.72 mm
 - Infinity Plan 100X / 1.25, WD 0.17 mm
- **Nosepiece**
 - Backward quadruple nosepiece



- **Focusing System**
 - Low-position coaxial coarse & fine focus
 - Coarse adjustment: 14 mm per rotation
 - Fine adjustment: 0.1 mm per rotation
 - Fine focus division: 0.001 mm
- **Stage**
 - Double-layer mechanical stage, 156 × 138 mm
 - Moving range: 76 × 54 mm
 - Low-position X–Y coaxial control knob
 - Holds two specimen slides
- **Condenser**
 - Abbe N.A. 1.25 with aperture iris diaphragm
 - Slot for phase contrast slide
 - Center adjustable
 - Color-coded diaphragm scale markings
- **Illumination & Power**
 - 6V / 20W halogen lamp
 - Köhler illumination with field diaphragm
 - Easy bulb replacement
 - Power : 100–240V wide voltage range
- **Weight**
 - 9 kg
- **Certification**
 - ISO9001, ISO14001, ISO13485
 - CE Certified

☑ Optional Accessories

- **Viewing Heads**
 - Binocular head (30° inclined, 360° rotatable, IPD 48–75 mm)
 - Trinocular head (30° inclined, 360° rotatable, IPD 48–75 mm)
- **Eyepieces**
 - WF10×/22 mm (high eye-point 21 mm)
 - WF16×/13 mm (high eye-point 21 mm)
 - Reticle eyepiece WF10×/20 mm
- **Additional Objectives**
 - Infinity Plan 20X / 0.4 / 0.17, WD 2.71 mm
 - Infinity Plan 60X / 0.80 / 0.17, WD 0.35 mm (Spring)
- **Nosepiece Upgrade**
 - Quintuple reversed nosepiece



- **Illumination Upgrade**
 - LED 3W
- **Filters**
 - Green filter
 - Yellow filter
 - Frosted glass
- **Polarization**
 - Analyzer + Polarizer
- **Dark Field**
 - Dry dark field condenser (4X, 10X, 40X, 100X)
- **Centering Telescope**
- **Phase Contrast**
 - Phase contrast condenser NA 1.25 (10X–100X)
 - Infinity Plan Phase Contrast Objectives (Positive): 10X–20X–40X–60X–100X
 - Infinity Plan Phase Contrast Objectives (Negative): 10X–20X–40X–60X–100X
- **Fluorescence Attachment**
 - Fluorescence Set 100W
 - UV / V / B / G excitation filters
- **Adapters**
 - CCD 1.0X
 - CCD 0.5X
 - CCD 0.25X
 - Canon EOS digital adapter

SG INVERTSCOPE 100 BIOLOGICAL INVERTED MICROSCOPE (ISG001-2025)

Optimized for Live Cell Observation with Long Working Distance Precision

✓ Standard Configuration

- **Viewing Head**
 - Model ISG001-2025 (NB100 version)
 - Trinocular head, 30° inclined
 - Interpupillary distance: 48–75 mm
 - Binocular tube rotatable 360°
 - Model ISG001-2025T (NB100T version)
 - Tilting binocular head (5°–35°)
 - Interpupillary distance: 48–75 mm
 - Binocular tube rotatable 360°
- **Eyepiece**
 - High-point, extra wide field eyepiece EW10×/22 mm



- **Infinity Plan LWD Objectives**
 - 4× / 0.1, WD = 18 mm
 - 40× / 0.6, WD = 2.6 mm (cover glass 1.2 mm)
- **Infinity Plan Phase Contrast Objectives**
 - PH10× / 0.25, WD = 10 mm
 - PH20× / 0.4, WD = 5.1 mm
- **Nosepiece**
 - Quintuple nosepiece
- **Condenser**
 - ELWD Condenser NA 0.3
 - LWD 72 mm
 - Without condenser LWD 150 mm
- **Phase Annulus Plate**
 - 10×–20× and 40× phase annulus plate
- **Stage**
 - Plain stage 160 × 250 mm
 - Glass insert
 - Auxiliary stage 70 × 180 mm
 - Optional attachable mechanical stage
 - X–Y coaxial control
 - Movement range: 120 × 78 mm

- **Focusing System**

- Coaxial coarse and fine focusing
- Vertical objective movement
- Coarse range: 37.7 mm per rotation
- Fine focus division: 0.2 mm per rotation

- **Illumination**

- 6V / 30W halogen lamp
- Adjustable brightness

- **Filters**

- Blue filter
- Green filter
- Ground glass filter ($\Phi 45$ mm)



Optional Accessories

- **Infinity Plan LWD Objectives**
 - 10 \times / 0.25, WD = 10 mm
 - 20 \times / 0.4, WD = 5.1 mm
- **Infinity Plan Phase Contrast Objective**
 - PH40 \times / 0.6, WD = 0.35 mm (cover glass 1.2 mm)
- **Centering Telescope**
 - Centering telescope, tube $\Phi 30$ mm
- **Phase Annulus Plate**
 - Center adjustable phase annulus plate for PH 10 \times , 20 \times , 40 \times
- **Stage Holders**
 - Terasaki holder
 - $\Phi 38$ mm Petri dish holder
 - $\Phi 54$ mm slide glass holder
- **Video Adapters**
 - 1 \times C-mount adapter
 - 0.5 \times C-mount adapter

SG METALLPRO INVERTED METALLURGICAL MICROSCOPE (MSG001-2025)

Precision Focus for Advanced Metallography.

✓ Standard Configuration

- **Viewing System**
 - Compensation-free trinocular head
 - 45° inclined viewing angle
- **Eyepieces**
 - Wide field WF10X / 18 mm
 - Wide field WF10X / 18 mm with 0.1 mm crosshair
- **DIN Plan Metallurgical Objectives**
 - 4X / 0.1, WD 25 mm
 - 10X / 0.25, WD 11 mm
 - 20X / 0.4, WD 9 mm
 - 40X / 0.6, WD 3.8 mm



- **Filters**
 - Flashboard filters: Blue, Green, Yellow
- **Focusing System**
 - Coaxial coarse and fine focusing
 - Rack and pinion mechanism
 - Fine focusing scale value: 0.002 mm
- **Nosepiece**
 - Quadruple revolving nosepiece
- **Stage**
 - Double-layer mechanical stage
 - Stage size: 172 × 142 mm
 - Moving range: 30 mm × 30 mm
- **Illumination (EPI)**
 - Aperture iris diaphragm
 - Field iris diaphragm

- **Light Source**
 - 12V / 20W halogen lamp
 - AC 85–230V power input
 - Adjustable brightness
- **Polarizing System**
 - Analyzer rotatable 360°
 - Polarizer and analyzer movable in/out of optical path
- **Measuring Tool**
 - 0.01 mm micrometer



Optional Accessories

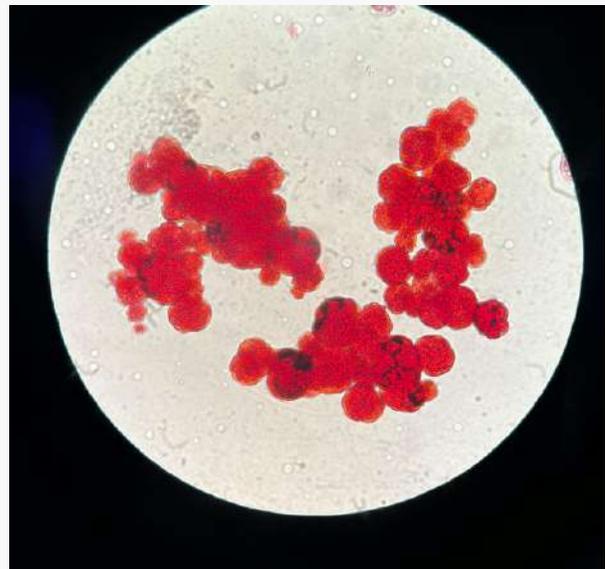
- **Additional DIN Plan Metallurgical Objectives**
 - 50X
 - 80X
 - 100X
- **Software**
 - Professional Metallurgical Image Analysis Software
- **Adapters**
 - CCD adapters: 0.5X, 0.57X, 0.75X
 - Photo adapter
- **Dark Field**
 - Simple Dark Field Kit

SG STEREOVIEW DIGITAL STEREO MICROSCOPE (SSG001-2025)

Digital Stereo Precision with Integrated 5MP Imaging

Standard Configuration

- **Viewing Head**
 - Inclined binocular head
 - 360° rotatable
 - Built-in CMOS camera (5 Megapixel)
- **Eyepiece**
 - HWF10X / ϕ 22
- **Objective System**
 - Zoom magnification range: 0.67X – 4.5X
- **Focusing**
 - Coarse focusing adjustment



• Illumination

- **Incident (Top) Light**
 - 12V / 10W halogen lamp
 - Adjustable brightness
- **Transmitted (Bottom) Light**
 - 12V / 10W halogen lamp
 - Adjustable brightness

Optional accessories

- **Additional Eyepieces**
 - WF5X / ϕ 16
 - WF15X / ϕ 15
 - WF20X / ϕ 10

SG HD VIEW VIDEO MICROSCOPE (VSG001-2025)

Real-Time HD Video Microscopy for Precision Inspection

The SG HDView Video Microscope is an intelligent all-in-one digital inspection system designed for industrial analysis, precision measurement, electronics repair, quality control, and laboratory applications. Featuring a large HD display, high-resolution imaging, LED illumination, and integrated measurement tools, it delivers sharp, real-time visual inspection with advanced functionality.



Standard Configuration

- **Optical System**
 - Magnification: 12X–78X (Zoom)
 - Optional magnification range: 9X–220X
 - Built-in 0.35X video coupler
 - Standard 1X objective lens
 - Optional lenses: 0.75X, 1.5X, 2X
 - Working distance: 100 mm (max 198 mm optional)
 - Field of view: 23 mm – 3 mm



- **Camera System**
 - 2.0 MP HD camera
 - Resolution: 1920 × 1080 (Full HD)
 - Frame rate: 60 fps @ 1920×1080
 - Sensor: 1/2" SONY sensor
 - Pixel size: 2.75 × 2.75 μm
 - SNR: 65 dB
 - Manual exposure control
 - Manual focus control
- **Display**
 - 12" HD LCD monitor
 - 1080P resolution
 - Wide screen
 - Multi-angle adjustment
 - HDMI/VGA output port
 - External HDMI display support
- **Illumination**
 - High-quality LED ring illumination
 - 144 LED bulbs
 - Adjustable brightness

- **Measurement & Software**

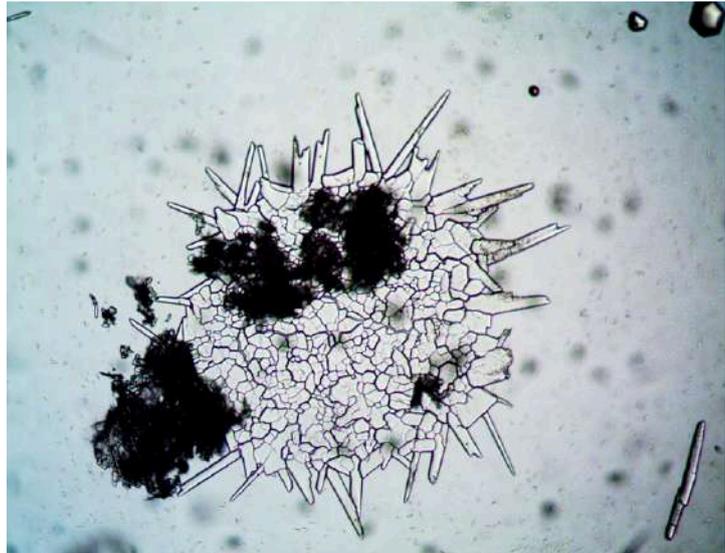
- Graphic measurement tools
- Camera drawing function
- Excel data export
- Image capture and video recording
- Edge enhancement function
- HDR depth of field adjustment
- Crosshair overlay
- 14 measurement tools available
- Save images and measurement data to U-Disk

- **Operation**

- Mouse operation or manual control
- USB storage support
- Frame selection area drawing
- Freeze frame function
- Image comparison function
- Mirror image (horizontal/vertical)
- Color / black & white mode
- Electric frequency adjustment
- Color temperature adjustment

- **Interfaces**

- USB port (U-Disk storage)
- HDMI output
- VGA output
- Working voltage: 5V–12V



- **Mechanical Specifications**

- Base size: 260 mm (X) × 320 mm (Y)
- Height: 480 mm
- Camera size: 280 × 180 × 67 mm
- Weight (microscope): 5.5 kg
- Display size: 280 × 180 × 16 mm
- Display resolution: 1920 × 1080



Key features

- All-in-one HD digital inspection system
- Real-time image comparison
- Excel output for measurement data
- Built-in reticle and cross-line functions
- USB storage integration
- External monitor connectivity
- High-definition industrial inspection performance

SG STEREO MAX PROFESSIONAL MICROSCOPE (SSG003-2026)

Precision Stereo Imaging with Ultra-Long Working Distance

The SG Stereo Max is ideal for PCB inspection, precision assembly, and industrial quality control. It is also well suited for material surface analysis, biological specimen observation, and gemstone examination.



Optical system

- Infinity-corrected apochromatic optical system
- Zoom ratio: 7.5:1
- Zoom range: 0.67X – 5X
- Total magnification: 6.7X – 50X (with 10X eyepieces)
- Working distance: 125 mm
- Eyepiece: 10X / Φ 23



Viewing head

- Trinocular viewing head
- Interpupillary distance: 50–76 mm
- 360° rotatable head
- Observation Methods : Brightfield, Darkfield, Simple polarization, Oblique illumination



Imaging Performance

- High-resolution stereo imaging
- Excellent color fidelity
- Enhanced contrast and edge definition
- Smooth transition from macro to micro observation



Mechanical & Ergonomics

- Ultra-long 125 mm working distance
- Spacious sample operation area
- Stable zoom control system
- Comfortable viewing posture for extended use



Optional accessories

- 15X, 20X, 30X eyepieces
- Ring light illumination
- Fiber optic illuminator
- Heating stage
- High-precision platform
- Various stand configurations

THANK YOU

We are ready to assist you

Please contact for inquiries and other technical support!



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