Opto-Edu has introduced its **A18.4903 Digital Stereo Comparison Microscope**, a sophisticated system designed for side-by-side visual comparison in forensic, industrial, and quality control applications. This instrument integrates dual optical paths, advanced digital imaging, and professional software to facilitate comparison.



Core Capability: Simultaneous Dual-Path Observation The system’s defining feature is its dual independent optical paths. It utilizes two separate stereo microscopes (marked L and R) to present real-time images of two different samples—or different areas of one sample—for direct comparison on a single monitor.

Optical and Imaging System Features

- Dual Zoom Stereo Microscope 0.7x-4.5 Supply 2 Indepedent Light Path Real Time Image for Comparison
- Dual Digital Camera System Both Support USB/LAN Connection, High Resolution L20.0M, R12.0M
- Professional Comparision Software DB Capture for Windows Support Split/Overlap/Comparison Function
- 3 Kinds Illumination: Near Coaxial LED Light, 4 Zone LED Ring Light, 6 Colors Oblique LED Light,
- Working Stage 180x155x26mm, Moving 25x55mm, Round Stage 360° Rotate, With Universal Holder Set



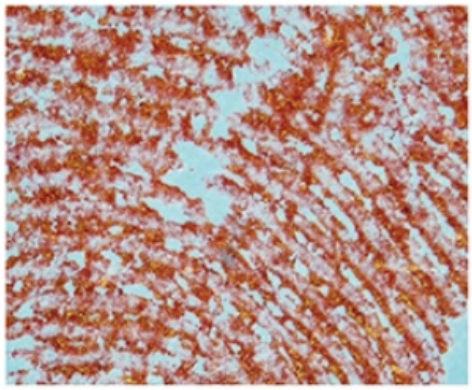


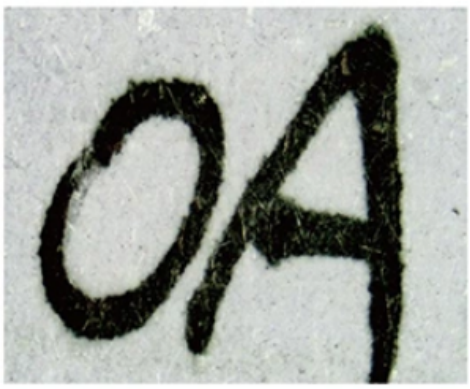
Near-coaxial Falling Light

Brightness Control Knob

Near-coaxial Light Switch







Innovative Multi-Lighting System

The microscope incorporates a triple illumination system to reveal diverse surface details:

- **Near-Coaxial LED Light**: Evenly illuminates flat, shiny surfaces to reduce glare and highlight scratches or embossed features.

- **4 Zones LED Ring Light**: 72 LEDs ring light, controll four independent sections (top, bottom, left, right) for diffuse reflection.

- **6 Colors Oblique LED Light**: Offer red, yellow, green, blue, purple, and white light. Different wavelengths can be used to enhance contrast for specific applications.

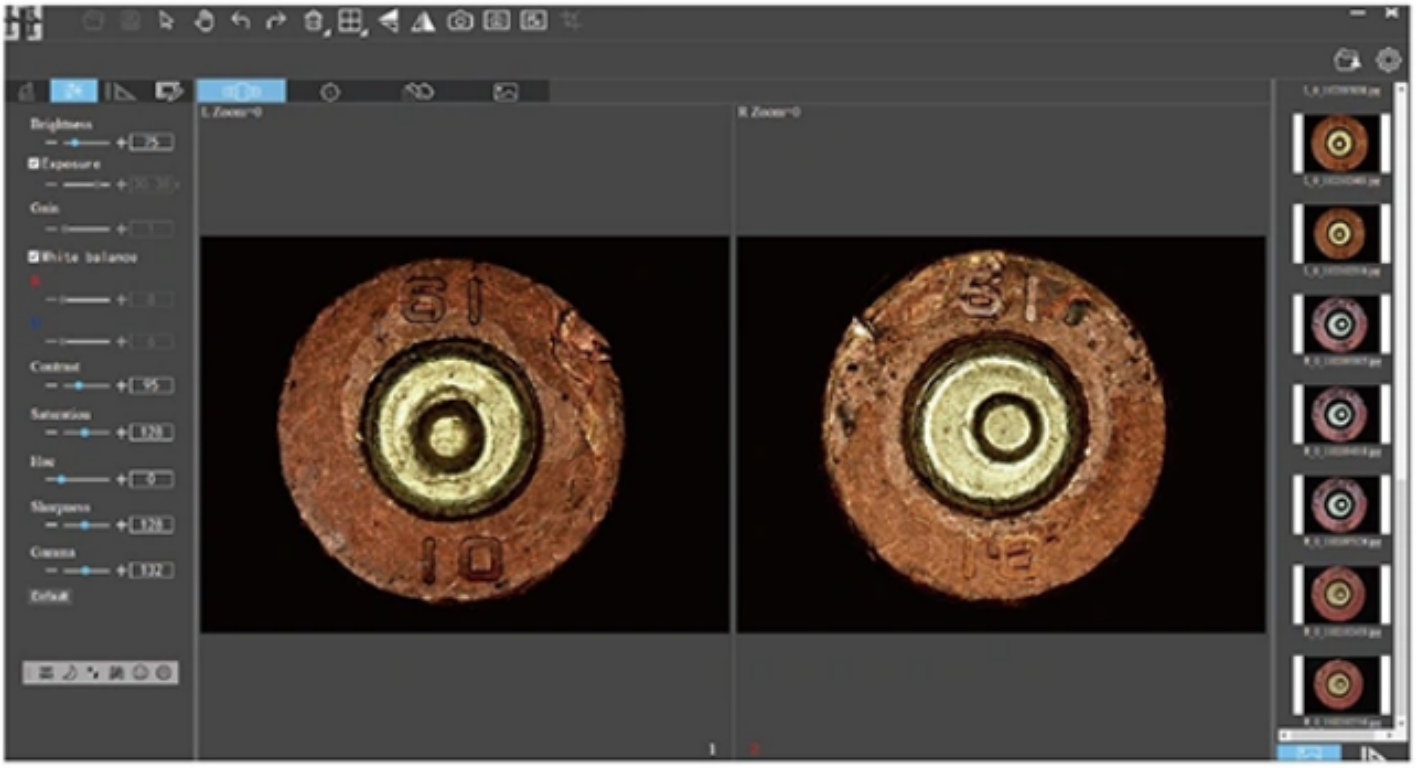
Professional Comparison Software

"DB Capture" software for Windows enables powerful analysis:

- **Display Modes**: Supports split-screen, overlay, and direct comparison views.

- **Advanced Tools**: Allows transparency adjustment, fine-tuning of individual image positions, and comparison with historical images from a local database.

- **Image Control**: Permits independent adjustment of parameters like white balance and exposure for each camera feed.



Target Applications

A18.4903 microscope is engineered for fields requiring meticulous visual comparison, including:

- **Forensic Science**: Document verification, seal analysis, and trace evidence examination.
- **Industrial Quality Control (QC)**: Comparison of components against a standard master part.
- **Manufacturing & Electronics**: Inspection of precision parts, PCB assemblies, and material surfaces.
- **Research & Development**: Detailed material analysis and failure inspection.

The A18.4903 system, with its integrated design that includes a centralized power

supply for a clutter-free workspace, is positioned as a comprehensive solution for high-precision comparative observation tasks.

About Opto-Edu

Opto-Edu has the most professional experience of microscopes in the Chinese market, with our professional sales team, customers will get supply of the BEST SELECTED microscopes for all kinds of purposes with competitive price and 3 YEARS Warranty.

Contact Opto-Edu (Beijing) Co., Ltd.

Email: sale@optoedu.com Website: www.optoedu.com