



OPTO EDU A18.1832 Touch Screen Motorized/Manual Digital Comparison Microscope 2x~240x

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A18.1832
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month



Product Specification

- Highlight: **2x~240x Digital Comparison Microscope, Motorized Digital Comparison Microscope, Manual Digital Comparison Microscope**

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Product Description

Newly Developed 2024! Touch Screen Intergrated Control System On Microscope Stand
 Total Magnification 2x-240x, 10-55° Til Adjustable Binocular Head With Eyepiece WF10x/22mm, WF20x/13mm
 Sextuple Nosepiece, LWD Infinity Plan Objectives 0.5x,1x,1.5x,2x,4x,6x, Auxiliary Lens 4x,2.0x
 Upper Light 5W UV/LED, 12V/50W Cooling Halogen Side Light, Transmitted Light,
 Touch Screen Control Motorized Nosepiece, Motorized Working Stage XYZ/R Moving, Motorized Column Lifting Movement.



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A18.1832

Fully Automatic Touch Screen Comparison Microscope



A18.1832 Product Features

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A18.1832 comparison microscope is a microscope that uses optical magnification to observe the images of objects in the left and right fields of view at the same time through the same set of eyepieces, and uses methods such as field cutting and docking, overlapping and comparison to compare two objects macroscopically or microscopically. Due to the clear imaging and high resolution, it can identify tiny differences and achieve the purpose of distinguishing the authenticity. This product is an ideal instrument for document inspection and trace inspection by the public security, procuratorate, court and school teaching (used for comparison and identification of bullets, tool marks, fingerprints, seals, text, currency, etc.), and is also suitable for use in industries and departments such as banking, archaeology, electronics, biology, agriculture, etc. that require comparative identification of objects.



- Total optical magnification: 5X-120X. Optional 2X magnifier and 0.4X magnifier can be used to expand the magnification to 2X-240X
- Wide-angle eyepiece with large field of view: one pair each of WF10X/φ22mm and WF20X/φ13mm;
- Objective lens: 0.5X, 1X, 1.5X, 2X, 4X, 6X. Use a six-hole objective lens converter with fixed magnification. The converter is a stagnant design, and the operation is reliable and obvious. Equipped with a 2X magnifier and a 0.4X additional objective lens, it is suitable for observing seal images and expanding the optical magnification.
- Tiltable binocular head: 10° 55°, humanized design; interpupillary distance: adjustable range 55mm-75mm
- Touch screen electronic control: computer software can control left and right single fields of view, docking fields of view, overlapping fields of view; left and right stage forward and backward, left and right, lifting and lowering, single-sided movement and bilateral linkage; left and right objective lens magnification, etc.; the instrument can realize stage X/Y/Z axis movement, left and right stage linkage and tabletop horizontal rotation manually or through computer software; the instrument can be remotely electronically controlled for comparison.

A18.1832 Specification

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- Lighting system: 12V50W air-cooled strong light source reflector lamp, high-power two-color lamp (ultraviolet lamp and LED lamp) each pair, all use touch-type independent switch, can be illuminated separately, or multiple groups of light sources can be used on both sides at the same time, the light intensity can be adjusted separately, and the irradiation direction and inclination angle can be adjusted arbitrarily;
- Coaxial light: 45° reflection angle;
- Polarized light: 0-360° rotatable, 90° orthogonal;
- Stage travel: 50mm front and back, 55mm left and right, electric manual 40+60mm;
- Equipped with special shearing fixture: diameter ranges from 1 to 8mm, can fix and clamp screwdrivers, column keys, wires, lead wires and other subtle traces
- Camera system: 1/2.5-inch color APTINA CMOSMT9T001 chip, with a maximum resolution of 5 million pixels (2560 x 1920), exposure time: 0.294ms~2000ms, G light sensitivity: 0.53 V/lux-sec, frame rate: ≈10~50 frames/second, with USB2.0 high-speed interface.
- Equipped with professional criminal investigation image processing software: it can compare the entire image, and can also use a variety of selection methods (rectangle, free shape, circle, magic wand, etc.) to overlap the image locally, perform universal cutting comparison processing, image measurement, etc.; realize the electric uniform expansion of bullet shell cylindrical traces; correct traces on various distortion bodies, such as linear deformation correction, barrel pillow deformation correction, lens deformation correction; powerful image analysis function, can simultaneously obtain absorbance and reflectance of two images, and analyze the components of sample materials; static images and dynamic images can be compared in real time; set magic wand selection tolerance, select all and reverse selection, select save and release, object attribute setting, object synthesis to image and other functions; provide direct measurement of straight lines and angles; provide automatic calculation of area perimeter, area and other parameters based on the selected area and automatic labeling; provide enhancement of the image area or the entire image, including contrast, brightness, exposure compensation, segmentation, histogram enhancement, feathering, sharpening, motion blur, defocus blur restoration, etc.; equipped with genuine CD and software dongle, USB port plug and play;
- A set of branded computers; G5905/4G/1TB/integrated graphics card W10H/main without optical drive/serial and parallel ports/wired keyboard and mouse/built-in speakers/27-inch high-definition IPS computer monitor. Resolution: 2560×1440 (2K) (parameters are subject to delivery at the time of upgrade)



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