

DESCRIPTION

Stereozoom microscopes are optical microscopes that give a three-dimensional (3-D) view of a sample and generally operate at low magnification. The 3-D image allows solid surfaces to be examined with greater clarity and permits the precise manipulation of samples during magnification.



ACUPSZM125T is a research level Stereo Zoom Microscope with infinite Parallel Galileo optical system. Based on Galileo optical system and Achromatic objective, it can provide real and perfect microscopic images on details. The excellent ergonomics and user-friendly operating system can truly allow users to experience a simple and comfortable work. The Mirror in the base can be 360 ° rotatable to achieve the best observation results. ACUPSZM125T can meet the research demands of life sciences, biomedicine, microelectronics, semiconductors, materials science and other fields of research needs.

TECHNICAL SPECIFICATION

Optical System

- Common Main Objective (CMO) & Infinite Parallel Galileo Optics zoom based Stereoscopic with Plan Apochromatic optics

Trinocular Observation Head

- **Standard Outfit** : Fixed Observation head inclined at 30°, rotatable at 360° with Vertical phototube for micro photography, binocular: trinocular =50: 50
- **Optional Outfit** : 5°~45° Tilting Trinocular Head, Light Splitting Switch binocular: trinocular =100: 0 or 0:100.
- Inter-pupillary distance adjustment from 50mm to 76mm.

Eyepiece

- High Eye Point Wide field 10X (paired) F.O.V. 22mm with Diopter adjustment facility in both eyepieces

Zooming Range & Ratio

- Zoom 0.63 X to 8X with magnification ratio of 12.5:1, click stop for 0.63×, 0.8×, 1×, 1.25×, 1.6×, 2×, 2.5×, 3.2×, 4×, 5×, 6.3×, 8×with built-in aperture diaphragm

Magnification Range

- 6.3X-80X with 10X eyepiece & 1X objective

Working Distance

- 78 mm with Plan Apochromatic 1x Objective

Mechanical Body

- Co-axial Coarse & Fine Focusing unit on both sides with tension adjustable, coarse focusing range: 50mm, precision fine focusing range 0.002mm

Power Supply

- Operating Voltage 100-240VAC/50-60Hz, output 12V, Single Phase.

Illumination System

- **Transmitted Illumination** : External 5W LED Module, ColorTemperature 5000-5500K White Light, Wide Voltage 100-220V, Output 12V 5W, Power Supply Box Size 270×100×130mm, With Single Optical Fiber 500mm
Built-in 360 degree rotatable mirror, location and angle adjustable
- **Reflected Illumination:** LED ring (white) light for homogenous illumination directly mountable on objective lens with intensity control, ON/OFF switch and power supply module.



ACUCAL RING ILLUMINATOR

Model No.: ACSRI-LED

Environmental Conditions:

- Ambient Temperature: 0 to 40° C

Standard Accessories

- Operating Manual, Dust Cover, Guarantee Card and Styrofoam Molded pack.

APPLICATIONS

With complete eyepieces, objectives and accessories it is an ideal instrument has great value in a variety of applications such as

- life science and medical research, including dissection, IVF, biological experiment, chemical analysis and cell culture.
- It also can be used in Industrial areas for PCB, SMT surface, electronics inspection, semiconductor chip inspection, metal and materials testing, precision parts testing.
- Coin Inspection, Gemology and Gemstone setting, Engraving, repair and inspection of small parts.

FEATURES

- **Apochromatic objective:** Apochromatic design has significantly improved the color reproduction of the objective. Correcting the axial chromatic aberration of red/green/blue/purple, and converge them on a focal plane, the objective is able to present the real color of the samples.
- **Aperture diaphragm adjustment:** Shift the aperture diaphragm lever in front of the microscope to adjust depth of field for high-quality image.
- High quality optical components, providing sharp and striking contrast image and ensure flat image at big depth of field.
- Ease the tiredness with ergonomic design. The excellent ergonomics and user-friendly operating system can truly allow users to experience a simple and comfortable work.
- The Mirror in the base can be 360 ° rotatable to achieve the best observation results.

OPTIONAL ACCESSORIES

- Main Objective APO: 0.5X & 2X
- Wide Field Eyepieces: 15X/Ø16, 20X/Ø12 & 30X



Polarizer/Analyzer



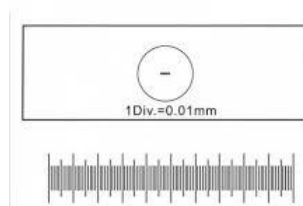
Fibre Optics Illumination



Fluorescence Attachment



Dark Field Attachment



Calibration Slide



Micrometer Eye Piece