

## Eyepiece less Stereo Inspection Microscope

### Type: ACUSM-E1

#### DESCRIPTION

ACUCAL Eyepieceless Stereo Inspection Microscope employs a very unique optical system that eliminates the need for eyepieces found in conventional microscopes. It employs Eyepieceless optical head with flexible swing arm and rotating lens turret.

This kind of superior ergonomics design, improve operator's working efficiency while getting truly superb 3D stereo images. For the long time viewing without visual weariness and makes operators no longer suffer the strain of eye, neck and back due to the humanistic design. The freely and comfortable operating can be beyond the visual limit. It is highly recommendable for electronic industry.

This Inspection Microscope is with an especially wide field of viewing. It can from a clear and sharp image with a strong stereo sense of sight be comfortably viewed and conveniently operated.



**Universal Stand**



**Crescent Stand**



**Square Track Stand**

- Produces sharp and stereoscopic images. Easy and comfortable operation. Widely applied in the field of biological dissection, Electronic PCB, SMD component Assembly, Inspection & Rework.
- The objectives can be conveniently changed; owning humanistic operating system.
- Variable Magnification Available, three objectives can be installed simultaneously.
- No visual weariness for long time viewing, largely improve working efficiency. Fatigue free viewing and superb image quality.
- Possessing the super-long working distance, super-large viewing field and depth of focus.

**MAIN FEATURES**

- **Eyepiece-less Design :**
  - Eyepieceless design reduces eye-strain and prolongs period of working time. Operator can work more comfortably and efficiently. Fatigue-free eyepiece-less viewing.
  - Eyepieceless technology projects a large high-quality 3D image directly to your eye, making it easier to see and more comfortable to view than a binocular stereo microscopes.
- **Inter Pupillary Distance (IPD)**
  - The equipment have IPD control to ensures that every user has the perfect stereo view
- **Superb Ergonomics :**
  - Superb ergonomical design makes working and viewing more comfortable
  - The Dynamic View Optics enables a stereo view, which changes as you move your head. See the sides of a subject as well as the top to gain a greater level of information and understanding.
  - No adjustments needed for multi-user operation.
- **Wide selection of optical lens :**
  - To ensure you get the highest image quality, each dedicated lens combines the finest optical quality glass and special coatings to give a high resolution, high contrast view.
  - A variety kind of optional objectives are available: 2x, 4x, 6x, 8x, 10x,15x.
- **Built-in adjustable illumination :**
  - Two separate lights are provided directly from the microscope head. They provide cold, shadow free and adjustable angle illumination Variable intensity control.
- **Three-position nosepiece :**
  - Switching between magnifications could be easily done, as the microscope could hold three objective simultaneously.
- **Stands Options :**

<b>Universal Stand (Standard)</b>	<ul style="list-style-type: none"> <li>- Flexible boom stand make it easy to fix on the table and set height to fit your body. Stable stand, free sliding,</li> <li>- Universal Block with tension adjustment in bottom,it can free to move or fix so that to observe in a good position.</li> <li>- Ability to lift and lower the stand for focus in and out position.</li> </ul>
<b>Square Track Stand (Optional)</b>	<ul style="list-style-type: none"> <li>- Base Plate Size: 400×300×20mm</li> <li>- Vertical arm height: 535mm</li> <li>- Travel: 200mm</li> </ul>

**OBJECTIVE SPECIFICATIONS**

OBJECTIVE MAGNIFICATION	FIELD OF VIEW	WORKING DISTANCE	OUTFIT
2x	68mm	208mm	Standard
4x	34mm	98mm	Standard
6x	23mm	80mm	Standard
8x	17mm	58mm	Optional
10x	13.6mm	50mm	Optional
15x	9.1mm	45mm	Optional

- Illumination: LED with Brightness of 9,400 lux or Halogen with Intensity adjustment.
- Input: AC100~240V, Single Phase, 50/60Hz, Output: DC12V, 0.14A.

**APPLICATIONS**

This Inspection microscope is of great value in a variety of applications such as education, biological dissection and industrial areas like circuit board inspection and repair, surface mount, electronics inspection, coin collecting, gemology and gemstone identification, engraving, repair and inspection of small parts.

They are mainly used for following areas.

- Electronics: PCB board assembling, Soldering, PCB inspection, repair and weld
- Precision project & Plastic: QC, Micro-welding, Injecting
- Medical & Dentistry Equipment Manufacturing: Precise manufacture and assembling, fine dressing, color matching, inspection & repair
- Biological & Medical: Specimen-making, dissecting, dyeing, microscopy
- Public Security System: Trace comparison, stamp and signature identification, bank note and other note identification and evidence and analysis
- Great choice for the inspection of stents, catheters and other medical products
- Inspection and rework, such as the removal of flash and other injection molding defects
- Ideal for watch and jewelry making. Assembly and finishing of the smallest movements or the setting of stones is done with confidence and precision.
- High-concentration applications, which require long periods of intense focused working, such as sample preparation, dissection and manipulation