



# SX45

## Stereo Zoom Microscope

for routine inspection and material rework



- Wide range of magnification x4 - x200
- Affordable stereo zoom microscope with first class performance
- Wide range of options and configurations
- Long-life, true colour LED illumination

Designed as an affordable stereo zoom microscope, the SX45 with its long working distance, precision optics and compact design is the perfect solution to many industrial and biological applications. With a wide array of options and accessories, the SX45 allows further tailoring to individual requirements.

- x8 – x50\* (6.3:1 zoom ratio) click-stop stereo zoom magnification (x200 max.)
- Affordable stereo zoom microscope with first-class performance
- Long-life (up to 6,000 hours), true colour LED illumination
- Wide range of options and configurations
- Extra long working distance (115mm\*)

With more than 50 years experience in design and manufacture of high performance optical systems, Vision Engineering's SX45 delivers value, performance and flexibility. The SX45 provides high quality stereo viewing, ideal for both industry and life sciences, with an extra-long working distance for assembly, manipulation, re-work, dissection, or simple inspection tasks. Additionally, a wide range of stand options and accessories allow tailoring to suit individual requirements.

\* with standard x1.0 objective



## Optical Performance

- Precision optics deliver high resolution, flat field and high contrast images with long working distances and large depth of field
- 22mm Field Number (standard) eyepieces with eyepiece dioptre setting
- Interpupillary distance adjustment (52 to 75mm)



### **Bench stand**, compact and versatile.

- Low-profile base optimises ergonomics for reduced operator fatigue.
- Built-in transformer with intensity adjustment for both surface and substage illumination.



### **Articulated arm**, for enhanced flexibility.

- Designed specifically for applications requiring extended reach, without compromising stability.
- Multi-point adjustability allows precise positioning and alignment.



### **Boom mount**, ideal for larger specimens.

- Stable platform base, or for mounting directly to user's work surface.
- Enhanced freedom of movement.

## Accessories

### Image Capture & Archive

Trinocular head option permits the use of digital or video camera.

Modular multimedia solutions are available for image archiving, acquisition, processing, analysis and documentation.



### LED Ringlight

For use with bench stand variant, where additional surface illumination is required (standard option with articulated arm and boom mount variants).

### Floating Stage

For use with bench stand models, the floating stage provides smooth sample control, ideal for inspection tasks.



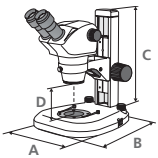
### Polarisation Set

Polarising filters can be accommodated with bench stand variant.

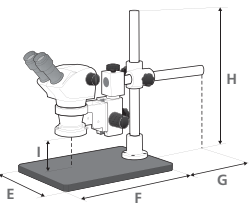
## Technical Data

- Greenhough stereo zoom microscope
- Zoom ratio 6.3:1
- Observation tube inclination 45°
- Interpupillary distance adjustment (52 to 75mm)
- Dioptre adjustment on both eyepieces

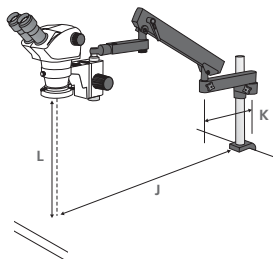
## Dimensions



**Bench Stand:**  
 A = 240mm  
 B = 290mm  
 C = 340mm  
 D = 215mm max., less working distance



**Boom Mount:**  
 E = 275mm  
 F = 395mm  
 G = 410mm max.  
 H = 460mm  
 I = 285mm max., less working distance



**Articulated Arm:**  
 J = 950mm max.  
 K = 270mm (removable)  
 L = 640mm max., less working distance

## Optical Data

Eyepieces	Objective Lens	Zoom Range	Working Distance
x10/22 F.N.	x0.5 *	x4 - x25	220.6mm
x10/22 F.N.	x1.0	x8 - x50	115.0mm
x10/22 F.N.	x2.0	x16 - x100	57.5mm
x20/13 F.N.	x0.5 *	x8 - x50	220.6mm
x20/13 F.N.	x1.0	x16 - x100	115.0mm
x20/13 F.N.	x2.0	x32 - x200	57.5mm

\* stand extension required when using x0.5 objective lens with bench stand model to accommodate increased working distance.





Vision Engineering manufactures a comprehensive range of ergonomic stand-alone mono and stereo microscopes as well as a complete line of non-contact measuring systems.

## For more information...

Vision Engineering has a network of offices and technical distributors around the world. For more information, please contact your Vision Engineering branch, local authorised distributor, or visit our website.

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