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*Vision*  
**SX80**

Increase your  
productivity  
and production  
quality with the  
**SX range**

Industry experience includes:  
Medical, Electronics & Precision engineering

QUALITY

FOCUSED



# MAGNIFICATION + FLEXIBILITY

## Key features

- High optical quality CMO stereo microscope
- Precision optics deliver high resolution, flat field and high contrast images with long working distances and large depth of field
- SX80: x8- x64 standard magnification range (x256 max.)
- SX100: x8- x80 standard magnification range (x320 max.)
- Modular systems for specific applications

The SX80 and SX100 incorporate over 60 years of proven optical experience in a **high quality CMO-series stereo zoom** microscope. With **exceptional optics**, the modular SX80 and SX100 deliver **superb image quality** at a competitive price, with a wide array of options providing complete flexibility.

### SX80

The SX80 provides high quality stereo viewing, ideal for both industry and life sciences, with a long working distance for easy assembly, manipulation, re-work, dissection, or simple inspection tasks. With an 8:1 zoom ratio, the SX80 has a standard

magnification range of x8- x64 (x256 max.) allowing fast and accurate viewing of all subjects. A compact, modular design allows accessories to be added to the configuration, without loss of clarity or contrast through the common main objective.

### SX100

The high precision optics of the SX100 provide a 10:1 zoom ratio and a standard magnification range of x8- x80 (x320 max.), providing high performance stereo magnification, while maintaining a long working distance. A fine focus option provides users with advanced capabilities for critical examination, allowing operators to quickly switch between manipulation and high magnification inspection tasks, allowing for parts to be reworked accurately to pass stringent quality standards.



SX SERIES RANGE



# STAND OPTIONS + TECHNICAL INFORMATION

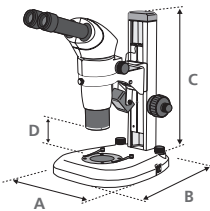


SX80

SX100

## Bench stand

- A = 9.45" (240mm)
- B = 11.22" (285mm)
- C = 13.78" (350mm)
- D = 7.68" (195mm) max.  
(less working distance) ♦
- ♦ with x1.0 objective



## OPTICAL DATA

<b>Standard magnification range</b>	x8 - x64	x8 - x80
<b>Minimum / Maximum capable magnification</b>	x4 - x256	x4 - x320
<b>Zoom ratio</b>	8:1	10:1
<b>Working distance (standard)*</b>	3.07" (78mm)	3.07" (78mm)
<b>Working distance (maximum)</b>	5.12" (130mm)	5.12" (130mm)
<b>Optical principle</b>	CMO	CMO

## FEATURE DATA

<b>Binocular eyepiece options</b>	10x, 15x, 20x	10x, 15x, 20x
<b>Additional objective</b>	0.5x, 1.0x, 2.0x	0.5x, 1.0x, 2.0x

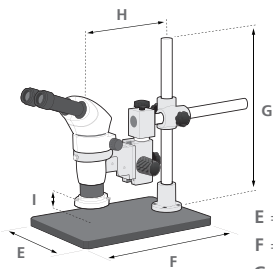
## ACCESSORY OPTIONS

<b>Camera arm</b>	✓	✓
<b>Image capture</b>	✓	✓
<b>Imaging software</b>	✓	✓
<b>Floating stage**</b>	✓	✓
<b>Polarization filter set</b>	✓	✓
<b>Double iris diaphragm</b>	✓	✓
<b>Measurement/comparison graticule</b>	✓	✓
<b>Fine focus adjustment**</b>	✓	✓

## STAND OPTIONS

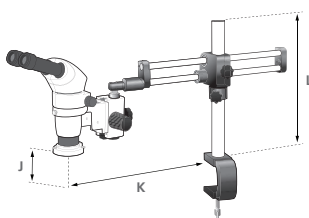
<b>Bench Stand</b>	✓	✓
<b>Boom Mount</b>	✓	✓
<b>Dual Arm Boom</b>	✓	✓
<b>Articulated Arm</b>	✓	✓

## Single arm boom with base



- E = 10.83" (275mm)
- F = 15.55" (395mm)
- G = 19.09" (485mm)
- H = 17.40" (442mm) max.
- I = 9.06" (230mm) max.  
(less working distance) ♦
- ♦ with x1.0 objective

## Double arm boom with clamp



- J = 9.65" (245mm) max.  
(less working distance) ♦
- K = 26.38" (670mm) max.
- L = 15.94" (405mm)
- ♦ with x1.0 objective

## SX80 optical configurations

Eyepieces	Objective Lens	Zoom Range	Working Distance
x10/20 E.W.	x0.5	x4 - x32	5.12" (130mm)
x10/20 E.W.	x1.0*	x8 - x64	3.07" (78mm)
x10/20 E.W.	x2.0	x16 - x128	1.28" (32.5mm)
x15/16 W.F.	x0.5	x6 - x48	5.12" (130mm)
x15/16 W.F.	x1.0*	x12 - x96	3.07" (78mm)
x15/16 W.F.	x2.0	x24 - x192	1.28" (32.5mm)
x20/11 W.F.	x0.5	x8 - x64	5.12" (130mm)
x20/11 W.F.	x1.0*	x16 - x128	3.07" (78mm)
x20/11 W.F.	x2.0	x32 - x256	1.28" (32.5mm)

\*Standard objective

\*\* For use with bench stand

## SX100 optical configurations

Eyepieces	Objective Lens	Zoom Range	Working Distance
x10/22 F.N.	x0.5*	x4 - x40	5.12" (130mm)
x10/22 F.N.	x1.0	x8 - x80	3.07" (78mm)
x10/22 F.N.	x2.0	x16 - x160	1.28" (32.5mm)
x15/16 F.N.	x0.5*	x6 - x60	5.12" (130mm)
x15/16 F.N.	x1.0	x12 - x120	3.07" (78mm)
x15/16 F.N.	x2.0	x24 - x240	1.28" (32.5mm)
x20/13 F.N.	x0.5*	x8 - x80	5.12" (130mm)
x20/13 F.N.	x1.0	x16 - x120	3.07" (78mm)
x20/13 F.N.	x2.0	x32 - x320	1.28" (32.5mm)

# VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection and non-contact measuring systems for over 60 years.

## Innovation

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical / digital techniques, significantly improving viewing ergonomics and enabling customer quality and productivity improvements.

To see our focused quality, please contact your Vision Engineering branch, local authorized distributor, or visit our website: [visioneng.us](http://visioneng.us)

Distributor



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Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015. Quality is as important to us as our customers. Our systems have proved themselves many times over and are chosen by the world's best companies.

## Global

Vision Engineering has manufacturing and design facilities in the UK and USA, plus sales and support offices throughout Europe, the Far East, Asia and the Americas. We support our customers with close technical and service support anywhere in the world.

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Vision Engineering Ltd. has been certified for the quality management system ISO 9001:2015.

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