



## REDUCED COSTS + INCREASED QUALITY —

Nature has designed our visual system to be so dominant that our bodies adapt to accommodate any deficiency in the way we see. By **enhancing the visual sense** we extend the body's capability.



Whether looking for moulding defects, surface finish,

machining residue, correct assembly or much more, quality

assurance is enhanced. Reducing cost and increasing quality.

### **Looking at details**

Inspection of small details in finished items or supplied components is made easier and more efficient at the right magnification. Whether looking for moulding defects, surface finish, machining residue, correct assembly or much more, quality assurance is enhanced, reducing cost and increasing quality.

### **Working with tools**

Depth perception is often required when working with tools. This is especially important when working with sensitive or delicate subjects or when working with small components. SX Elite provides the necessary depth perception allowing easier working, increasing efficiency and reducing errors.

### **Reporting results**

Swift and accurate communication is vital in the modern working environment. SX Elite's camera system gives you the ability to quickly and efficiently capture and share images with suppliers, customers and team members, saving money and reducing waste.

### Work quicker and easier

Enables easy access for reworking and sample manipulation. View more of the subject with easier location of points of interest, efficient inspecting and working with tools.

### See more detail

Different subjects require different illumination. SX Elite offers direct, oblique, quadrant, ultra violet and sub-stage illumination for optimal lighting for each subject type. By lighting subjects correctly more details can be seen clearly, increasing speed and confidence of inspections and rework.

### Share information, communicate efficiently and extend ability

Pictures aid accurate and efficient communication. View, capture and annotate images easily and quickly for training, archiving, communicating with colleagues, suppliers and customers.

Communicate effectively with suppliers increasing speed of issue resolution, increasing product quality and reducing down time. The easy-to-use software supports custom overlays and image enhancements, extending inspection capability.

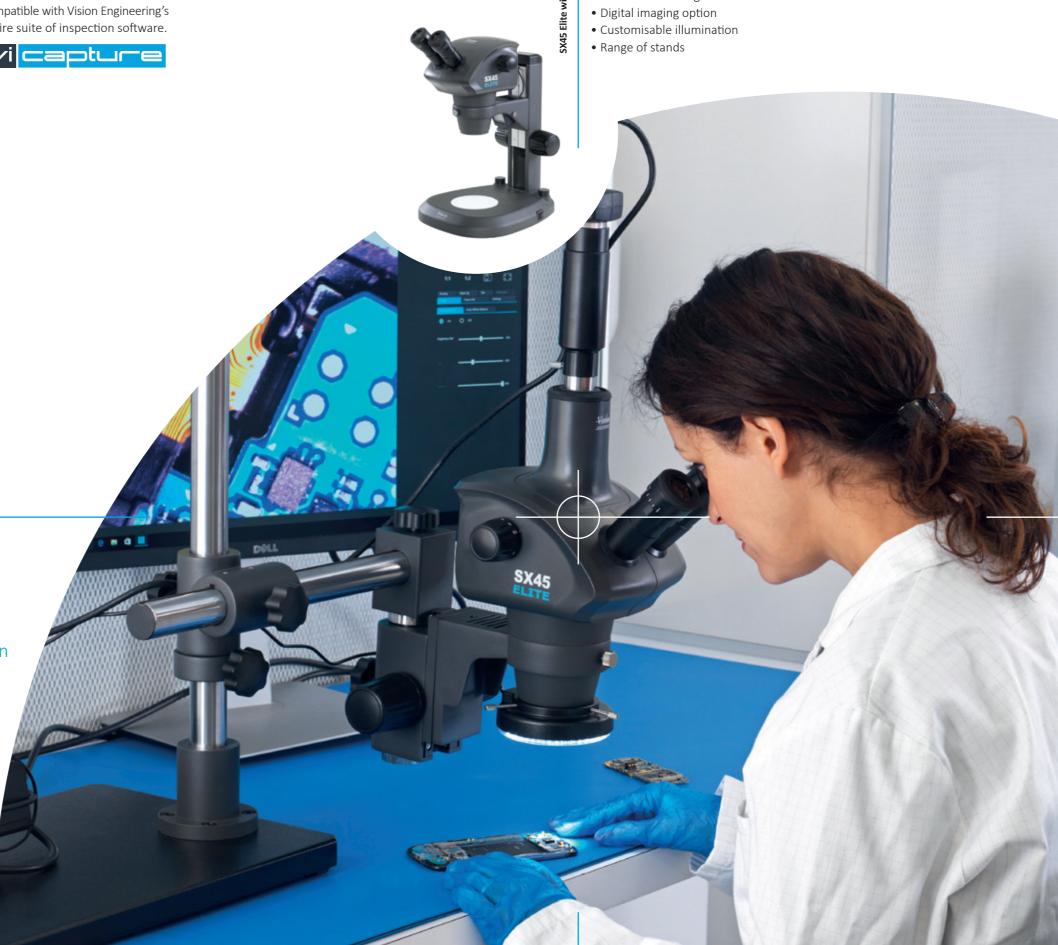
SX Elite's camera option comes complete with ViCapture, Vision Engineering's intuitive imaging software. SX Elite's camera is also compatible with Vision Engineering's entire suite of inspection software.



• Available magnification range: x4 - x200 • Maximum working distance: 220mm

# MAGNIFICATION + FLEXIBILITY

SX Elite's **easy-to-use zoom control** combines speedy access to greater visual data with flexibility of operation. Click stop magnification points allow users to recall magnifications quickly, easily and repeatably. The addition of magnifying eyepieces and external objectives enable precise magnification adjustment to meet user's needs.



**Key features** 

• Stereo zoom microscope

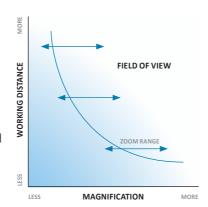
### STAND OPTIONS + TECHNICAL INFORMATION

There are several factors that are inseparable when selecting **working magnification**. As magnification increases, **field of view** and **working distance** decrease.

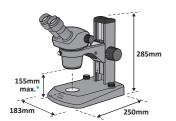
### **Stand selection**

Select the stand that best meets the needs of the task. Require space for large samples, special equipment or clean/clear work area?

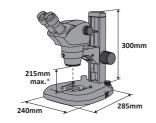
Then select a boom stand or articulated arm. If light from below is required, choose a bench stand.



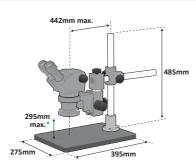
**SX25** Elite bench stand



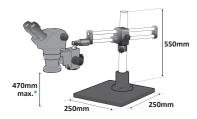
**SX45** Elite bench stand



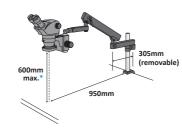
Single arm boom with base



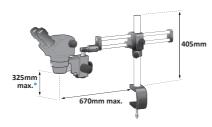
**Double arm boom** with base



**Articulated arm boom** with clamp



**Double arm boom** with clamp



Stand options	SX25 Elite	SX45 Elite	Single arm boom	Double arm boom		Double arm boom
	bench stand	bench stand	with base	with base	with clamp	with clamp
SX25 Elite	✓	✓	✓	✓	✓	✓
SX45 Elite	-	✓	✓	✓	✓	✓
Sub stage illuminator	✓	✓	-	-	-	-
Incident illuminator	✓	✓	-	-	-	-
Height adjust	✓	✓	✓	✓	✓	✓
X/Y adjust	-	-	✓	✓	✓	✓
Floating stage compatible	-	✓	-	-	-	-
Ring light compatible	✓	✓	✓	✓	✓	✓



TECHNICAL INFORMATION

	SX25 Elite	SX45 Elite	SX45-TR Elite
OPTICAL DATA			
Standard magnification range	x10 - x45	x8 - x50	x8 - x50
Minimum / Maximum capable magnification	x5 - x180	x4 - x200	x4 - x200
Zoom ratio	4.5:1	6.3:1	6.3:1
Working distance (standard)	97mm	115mm	115mm
Working distance (maximum)	180mm	220mm	220mm
Optical principle	Greenough	Greenough	Greenough
FEATURE DATA			
Binocular eyepieces	✓	✓	✓
Trinocular camera port	-	-	✓
Eyepiece options	10x, 15x, 20x	10x, 15x, 20x	10x, 15x, 20x
Additional objective	0.5x, 0.75x, 2.0x	0.5x, 0.7x, 2.0x	0.5x, 0.7x, 2.0x
ACCESSORY OPTIONS			
Image capture	-	-	✓
Imaging software	-	-	✓
Floating stage	-	✓	✓
Measurement comparison graticule	✓	✓	✓
Standard ring-light	✓	✓	✓
Quadrant ring-light	✓	✓	✓

x2.0

X25 Elite	optical config	urations		SX4
yepieces	Objective Lens	Zoom Range	Working Distance	Eyepi
10/20 E.W.	x0.5	x5 - x22.5	180mm	x10/2
10/20 E.W.	x0.75	x7.5 - x33.8	120mm	x10/2
10/20 E.W.	x1.0*	x10 - x45	97mm	x10/2
10/20 E.W.	x2.0	x20 - x90	30mm	x15/1
15/16 W.F.	x0.5	x7.5 - x33.6	180mm	x15/1
15/16 W.F.	x0.75	x11.3 - x50.6	120mm	x15/1
15/16 W.F.	x1.0*	x15 - x67.5	97mm	x20/1
15/16 W.F.	x2.0	x30 - x135	30mm	x20/1
20/11 W.F.	x0.5	x10 - x45	180mm	x20/1
20/11 W.F.	x0.75	x15 - x67.5	120mm	*Stand
20/11 W F	v1 0*	v20 = v90	97mm	to ac

45 Elite optical configurations

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	
x15/16 F.N.	x0.5*	x6 - x37.5	220.6mm	
x15/16 F.N.	x1.0	x12 - x75	115.0mm	
x15/16 F.N.	x2.0	x24 - x150	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				

x20/11 W.F. \*Standard objective



### 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.

### Quality

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.

**To see our focused quality**, please contact your Vision Engineering branch, local authorised distributor, or visit our website: visioneng.com

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FM 557119 Vision Engineering Ltd. has been certified for the quality management system ISO 9001:2015.