Increase your productivity and production quality with the SX Elite range

Industry experience includes:
Medical, Electronics & Precision engineering
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.
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.

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.

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.

Vision Engineering FOCUSED ON QUALITY

Key features
- Stereo zoom microscope
- Available magnification range: x4 - x200
- Maximum working distance: 220mm
- Digital imaging option
- Customisable illumination
- Range of stands

SX Elite with bench stand

SX45 Elite with bench stand
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.

Stand options

<table>
<thead>
<tr>
<th>SX25 Elite bench stand</th>
<th>SX45 Elite bench stand</th>
<th>Single arm boom with base</th>
<th>Double arm boom with base</th>
<th>Articulated arm boom with clamp</th>
<th>Double arm boom with clamp</th>
</tr>
</thead>
</table>

**SX25 Elite**

**SX25 Elite bench stand**
- Working distance:
  - Regular: 97mm
  - Long: 115mm
- Zoom ratio: 4.5:1
- Minimum / Maximum capable magnification:
  - Minimum: x5 - x100
  - Maximum: x4 - x200

**SX45 Elite**

**SX45 Elite bench stand**
- Working distance:
  - Regular: 97mm
  - Long: 115mm
- Zoom ratio: 6.3:1
- Minimum / Maximum capable magnification:
  - Minimum: x5 - x100
  - Maximum: x4 - x200

**SX45-TR Elite**

**SX45-TR Elite bench stand**
- Working distance:
  - Regular: 97mm
  - Long: 115mm
- Zoom ratio: 6.3:1
- Minimum / Maximum capable magnification:
  - Minimum: x5 - x100
  - Maximum: x4 - x200

**Optical data**

<table>
<thead>
<tr>
<th>SX25 Elite</th>
<th>SX45 Elite</th>
<th>SX45-TR Elite</th>
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</thead>
<tbody>
<tr>
<td>Standard magnification range</td>
<td>x10 - x45</td>
<td>x10 - x50</td>
</tr>
<tr>
<td>Minimum / Maximum capable magnification</td>
<td>x5 - x100</td>
<td>x4 - x200</td>
</tr>
<tr>
<td>Working distance (standard)</td>
<td>97mm</td>
<td>115mm</td>
</tr>
<tr>
<td>Working distance (maximum)</td>
<td>180mm</td>
<td>220mm</td>
</tr>
<tr>
<td>Optical principle</td>
<td>Greenough</td>
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</tr>
</tbody>
</table>

**Feature data**

- Binocular eyepieces
- Trinocular camera port
- Eyepiece options: 10x, 15x, 20x
- Additional objective: 0.5x, 0.75x, 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

**SX25 Elite optical configurations**

<table>
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<tr>
<th>Objective Lens</th>
<th>Zoom Range</th>
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<tbody>
<tr>
<td>x10/15 W</td>
<td>x1.5 - x2.5</td>
<td>180mm</td>
</tr>
<tr>
<td>x10/16 W</td>
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<tr>
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<td>x2.0 - x3.0</td>
<td>300mm</td>
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<td>x15/16 W</td>
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<td>300mm</td>
</tr>
<tr>
<td>x20/22 E.W.</td>
<td>x2.0 - x3.0</td>
<td>300mm</td>
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<tr>
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*Stand extension required when using 0.5x objective lens with bench stand model to accommodate increased working distance.
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