

Vision

ENGINEERING

visioneng.com/lynxevo



Power your productivity

High productivity eyepiece-less stereo microscope

- ✓ Unrivalled ergonomics improves productivity
- ✓ Advanced optics allows fast and accurate inspection
- ✓ Flexibility for a wide range of applications



FM 557119

Vision Engineering Ltd has been certified for the quality management system ISO 9001:2008.

YouTube



The eyepiece-less advantage

Lynx EVO employs revolutionary Dynascope® technology, improving productivity through unrivalled ergonomics and ease of use.

- Superior ergonomics promotes greater productivity and efficiency.
- A natural view of the subject with easy hand-eye co-ordination.



Lynx EVO product details

Lynx EVO is a **high productivity** stereo microscope without eyepieces, **powering your productivity** through stunning 3D imaging. The unique **patented eyepiece-less** optics of Lynx EVO liberates users from restrictive working practices, opening up a world of enhanced efficiency through unrivalled ease of use and **ergonomic performance**.

Highlights

In addition to unrivalled ergonomic benefits, Lynx EVO has the flexibility to be tailored to your requirements.

- Modular design allows tailoring for individual applications.
- 10:1 zoom ratio provides 6x - 60x magnification, increasing to 240x with supplementary lenses.
- Integrated HD camera/software (option) provides seamless image/video capture and annotation capabilities.
- Long working distance for easy sample manipulation.
- Flexible stand options, ideal for industrial and life science applications.

Optical excellence

- Lynx EVO incorporates Dynascope® patented optical technology. Dynascope® technology optimises head and body freedom providing 10mm side-to-side and 70mm front-to-back head freedom.
- 6x – 60x multiplied with supplementary lenses to a total magnification of 240x. 10:1 zoom ratio with indexing lever.
- Iris control within the zoom unit for greater control over the depth of field and contrast.
- Coarse and fine adjustment for fast and precision focusing.

Illumination

- 8-point LED ringlight with intensity control.
- In-built rotating diffuser for contrast adjustment.
- 5-point LED transmitted (substage) illumination (option).

Optical data				
Objective lens	Zoom range	Working distance	Field of view at min. zoom	Field of view at max. zoom
0.45x	2.7x – 27x	176mm	55mm	5.5mm
0.62x	3.7x – 37x	128mm	40mm	4.0mm
1.0x	6x – 60x	75mm	25mm	2.5mm
1.5x	9x – 90x	42mm	16mm	1.6mm
2.0x	12x – 120x	29mm	12mm	1.2mm

With 1.5x multiplier				
Objective lens	Zoom range*	Working distance	Field of view at min. zoom**	Field of view at max. zoom
0.45x	2.7x – 40.5x	176mm	55mm	3.7mm
0.62x	3.7x – 55.5x	128mm	40mm	2.7mm
1.0x	6x – 90x	75mm	25mm	1.7mm
1.5x	9x – 135x	42mm	16mm	1.1mm
2.0x	12x – 180x	29mm	12mm	0.8mm

With 2.0x multiplier				
Objective lens	Zoom range*	Working distance	Field of view at min. zoom**	Field of view at max. zoom
0.45x	2.7x – 54x	176mm	55mm	2.7mm
0.62x	3.7x – 74x	128mm	40mm	2.0mm
1.0x	6x – 120x	75mm	25mm	1.2mm
1.5x	9x – 180x	42mm	16mm	0.8mm
2.0x	12x – 240x	29mm	12mm	0.6mm

* Maximum permissible range with multiplier engaged/disengaged.

** With multiplier disengaged.

Ergo stand

- Small footprint for restricted bench space.
- Exceptionally stable for high magnification use.
- Transmitted (substage) illumination (option) permits viewing of a wider range of sample types.
- Floating stage (option) provides sensitive control for accurate inspection of samples; ideal for inspecting fragile samples, or for avoiding contamination by handling.



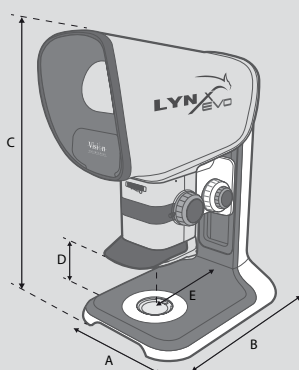
Multi-axis stand

- Precise and robust, ideal for industrial applications where maximum work space is desired.
- Extended reach permits the inspection of large samples (max. throat depth 439mm).
- Integrated gas strut provides counter-balanced adjustability, making operation quick and effortless. Switch between tall components and flat samples with ease.



Available with platform base or mounted directly to the work surface.

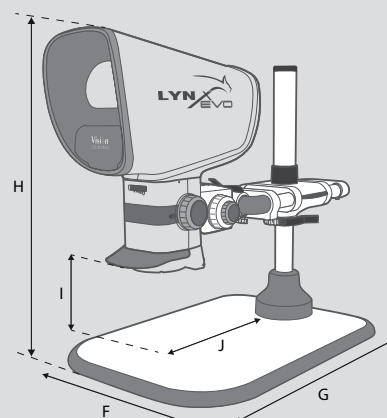
Technical details



Ergo stand dimensions:

- A = 280mm
- B = 420mm
- C = 670mm max.
- D = 200mm max.
(less working distance)
- E = 200mm

Unpacked weight: 15.3kg
Packed weight: 19.5kg



Multi-axis stand dimensions:

- F = 455mm (184mm*)
- G = 682mm - 830mm
- H = 695mm max.
- I = 285mm max.
(less working distance)
- J = 439mm max.

* without platform base.

Unpacked weight: 26.6kg
Packed weight: 30.8kg

Businesses choose **Lynx EVO** because they know their operators are **more efficient, more accurate** and **more productive**. The operator benefits and so does the business.

1 Stunning 3D (stereo) imaging

The Lynx EVO advantage begins with stunning 3D (stereo) imaging, viewed through an ergonomic viewing lens.

Patented eyepiece-less optical technology allows users to move within the optical path, effectively looking around the subject, further enhancing the 3D view and depth perception.

2 A natural view of the subject

With conventional 'eyepiece' stereo microscopes, users must position their eyes extremely close to the eyepieces, blocking out ambient light. The intense light exiting the eyepieces causes the pupils to contract. It is this constant opening and closing of the pupils which is the main cause of eye fatigue, leading to headaches.

With the eyepiece-less design of Lynx EVO, users sit back from the viewer, allowing ambient light into the eyes, providing an entirely natural view of the subject.

3 Ability to wear glasses

With Lynx EVO, operators do not need to remove their glasses (or safety glasses) to use the microscope. In fact, you can easily use Lynx EVO in a laminar flow, or safety cabinet.

4 Protection against cross-infection and sample contamination

By removing the contact between eyepieces and the user, Lynx EVO is kept clean, also preventing user contamination affecting sensitive samples in clean and sterile environments.

5 Ergonomic working position

An ergonomic working position not only makes Lynx EVO much more comfortable and much less fatiguing, but also much easier to use. Optimal operator ergonomics minimises the risk of repetitive strain-related injuries. A happy worker is a productive worker.

6 Freedom of head movement

An additional benefit of Vision Engineering's patented eyepiece-less design is that users do not need to precisely align their eyes with the viewing lens. This freedom of movement reduces the neck and back strain associated with a fixed body position required when using a binocular stereo microscope with eyepieces.

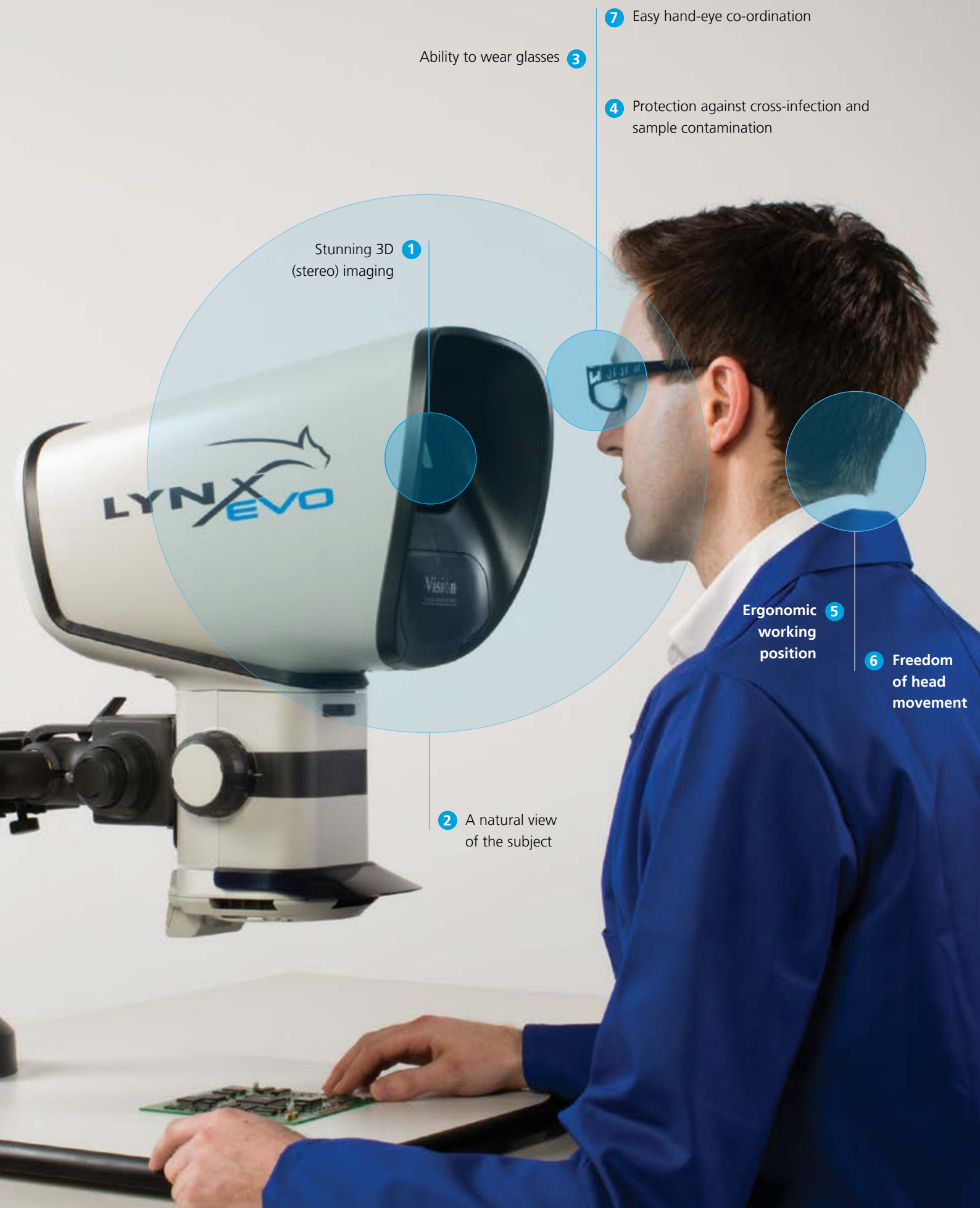
7 Easy hand-eye co-ordination

Sitting back from the viewing lens provides users with much better peripheral vision, allowing natural hand-eye co-ordination, critical for precision inspection tasks, re-work, repair, dissection and other manipulation activities.



Work more efficiently with Lynx EVO.

Power your productivity through eyepiece-less technology



Stunning 3D (stereo) imaging **1**

Ability to wear glasses **3**

7 Easy hand-eye co-ordination

4 Protection against cross-infection and sample contamination

Ergonomic working position **5**

6 Freedom of head movement

2 A natural view of the subject

Multiplier

- Increases the magnification and zoom range by a factor of 1.5x or 2.0x, significantly extending system magnification capabilities without changing the working distance.
- Available as 1.5x, or 2.0x multipliers, a slide lever simply engages/disengages the multiplier, as required.



Multiplier





Floating stage

A floating stage accessory for the Ergo stand provides smooth and precise control, ideal for inspecting sensitive samples, checking uniformity of components, or together with the measuring graticule for scaling or measuring subjects.

Objective lenses

Choose from a range of objective lenses to provide the desired magnification range or working distance.

Objective lenses incorporate anti-reflection coatings to enhance imaging performance.

Objective lenses



360° rotating viewer

360° rotating viewer

The 360° rotating viewer for Lynx EVO is the ultimate inspection accessory, permitting a full 360° rotating view of the subject (at an angle of 34°). Operators can simply switch between rotating and a conventional direct view.

Transmitted (substage) illumination

Transmitted illumination (option) permits viewing of a wider range of sample types. Provides flexibility as transparent samples can be viewed by transmitted as well as incident light.

Transmitted (substage) illumination



Smart Cam

Smart Cam

Easy and convenient high definition image/video capture while retaining both optical paths (for simultaneous stereo viewing).

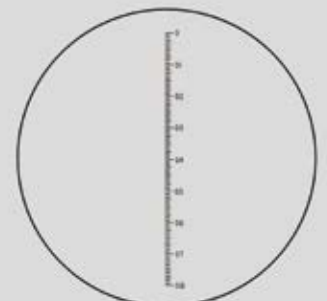
The supplied imaging software includes easy annotation and mark-up capability.

Reticle

Both simple cross hair, and measurement reticle (pictured) with scale are available for the Lynx EVO. The measurement reticle allows quick, simple dimensioning of the subject as it is being inspected.

Custom reticles are also available.

Reticle





360° rotating viewer

Lynx EVO accessories

360° rotating viewer

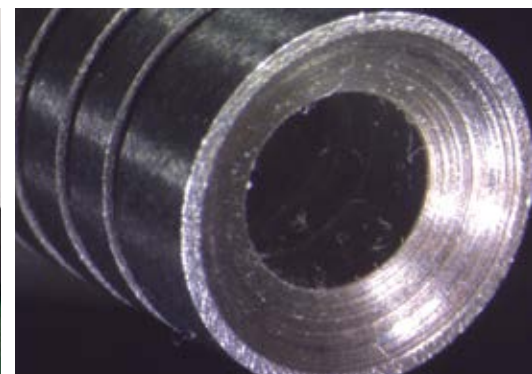
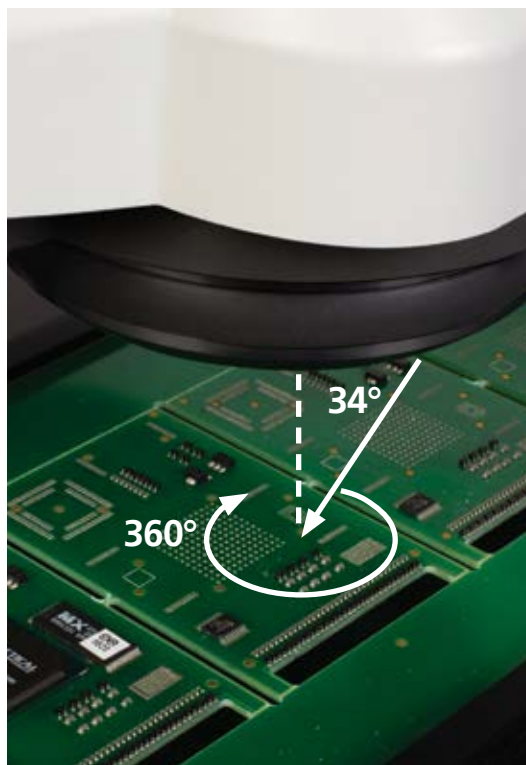
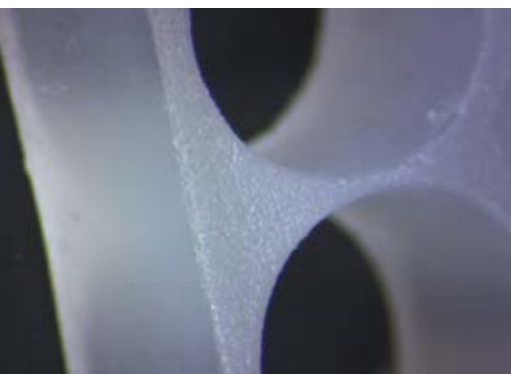
Allows the operator to view a subject from an angle of 34° from vertical, which can be rotated through to 360° enabling a complete stereo view of 3-dimensional subjects.

- The 360° rotation provides enhanced observation for many applications, including electronics, mechanical, medical and plastics components.
- The 34° angle allows details to be seen at the base of any vertical component or feature.
- Simply switch between 360° rotating view and a conventional direct view for ultimate convenience.
- Includes integrated 8-point LED ring light and objective lens.

360° rotating view				
Zoom range	Working distance	Field of view at min. zoom	Field of view at max. zoom	Viewing angle
4.2x (16x*) – 42x	35.5mm	10.2mm*	3.8mm	34° from vertical

Direct view				
Zoom range	Working distance	Field of view at min. zoom	Field of view at max. zoom	Viewing angle
6.8x (15x*) – 68x	56.5mm	12.0mm*	2.5mm	-

* Uninterrupted



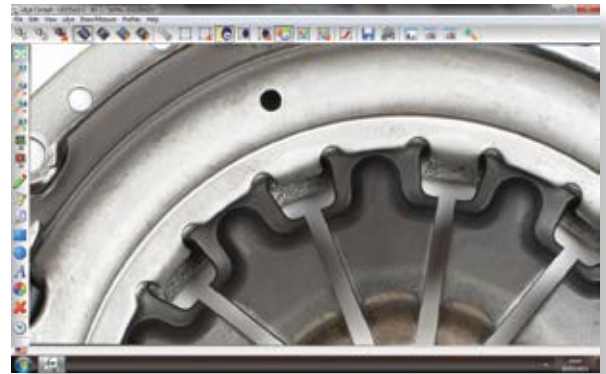
Smart Cam digital camera

- Integrated HD camera/software (option) provides seamless image/video capture and annotation capabilities for documentation purposes, with simultaneous on-screen display (via PC). Ideal for demonstration or training.
- Easy convenient image/video capture while retaining both optical paths for stereo viewing.
- USB2.0 interface for easy connectivity.

Camera data	
Sensor type	CMOS
Resolution (W x H)	1600 x 1200 pixels
Sensor size	1/3"
Pixel size	2.8µm
Colour depth	8-bit
Refresh rate (fps)	18.3 fps max.
File formats	BMP, JPEG, PNG and AVI
Supplied software	uEye Cockpit (Other solutions available)

Imaging software

- The included software provides easy annotation and quick reporting of inspected products. Annotations can be loaded as separate files and so can be used for template checking.
- Easy image capture in compressed JPEG, PNG, or uncompressed BMP format.
- Record video in highly compatible AVI format, allowing a high level of control over movie clips.



Measuring software option

DimensionOne™ is a powerful software solution for Lynx EVO, providing enhanced annotation, as well as on-screen measurement and dimensioning capabilities. *DimensionOne™* comes with a CD and calibration artefact for easy on-screen measurement.

Other compatible software solutions are also available.

Read about *DimensionOne™* software:
[www.visioneng.com/dimensionone »](http://www.visioneng.com/dimensionone)



Dynascope® inside

Lynx EVO employs an evolution of Vision Engineering's patented Dynascope® eyepiece-less optical projection technology. Dynascope technology removes the need for conventional microscope eyepieces, providing the user with brilliant, high contrast imaging, unrivalled ergonomic performance and amazing ease of use.

Dynascope® technology explained

Lynx EVO is a true optical stereo microscope. High resolution, true-colour optical images are viewed through an ergonomic eyepiece-less viewing head.

Light reflects from the patented Dynascope optics, exiting the single viewing lens as twin (stereo) light paths. The large diameter of these exit rays means that users do not need to precisely align their eyes with the viewing lens in order to see the image.

The result is an incredibly easy-to-view, high resolution stereo (3D) image. Without the need for eyepieces.

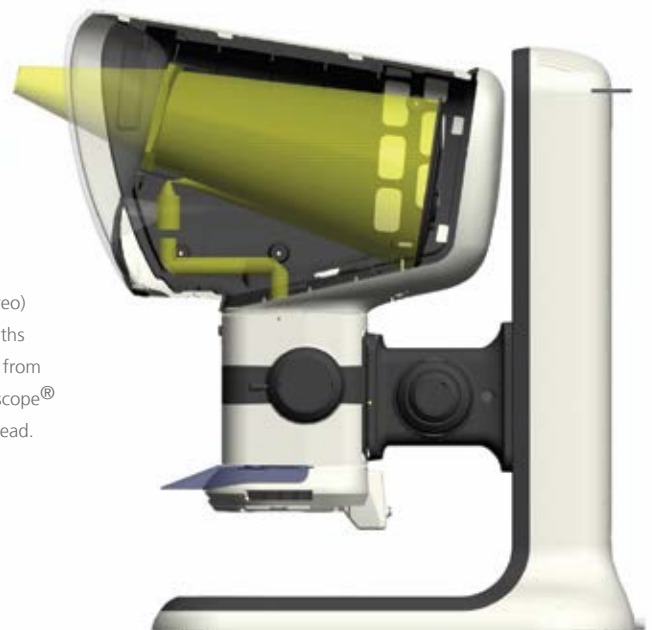
Did you know?

At the heart of Vision Engineering's patented Dynascope® eyepiece-less technology is a spinning multi-lenticular (multi-lens) disc. On the surface of the disc there are more than 3.5 million individual lenses (known as lenticules), which act as independent image-forming surfaces. Each individual lens has a diameter of just a few microns (1 micron = 0.001mm).

The multi-lenticular disk spins at high speed to merge the millions of individual optical paths into a high-clarity image.



Twin (stereo) optical paths projected from the Dynascope® viewing head.





Electronics

Lynx EVO is ideal for electronics PCB inspection and re-work. The patented optical viewing head of Lynx EVO provides unrivalled 3D viewing with ergonomic advantages of simplified hand-eye co-ordination.

Medical devices

From stents to catheters, medical device components require 100% inspection to ensure every product meets an exacting specification.

See every detail with Lynx EVO, time-after-time, across the entire shift.

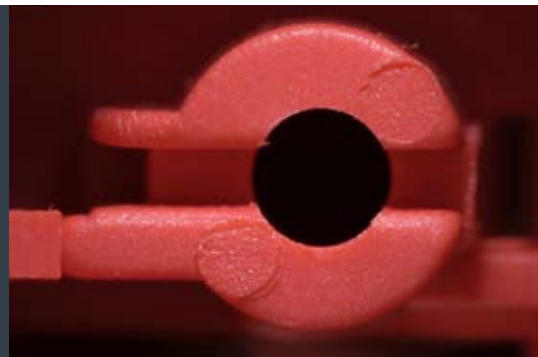


Precision engineering

Precision engineered components cover a very wide range of industries, from aerospace or automotive to watchmaking and general manufacturing. Lynx EVO's clear view and superior ergonomics are ideal for precision inspection, aiding visual accuracy and minimising errors caused by user fatigue.

Plastics and rubber

Rubber seals, packaging, caps and closures are precision manufactured to work effectively. Inspection for quality is essential. Stunning 3D (stereo) viewing with a long working distance make inspection or re-work tasks such as flash removal easy.



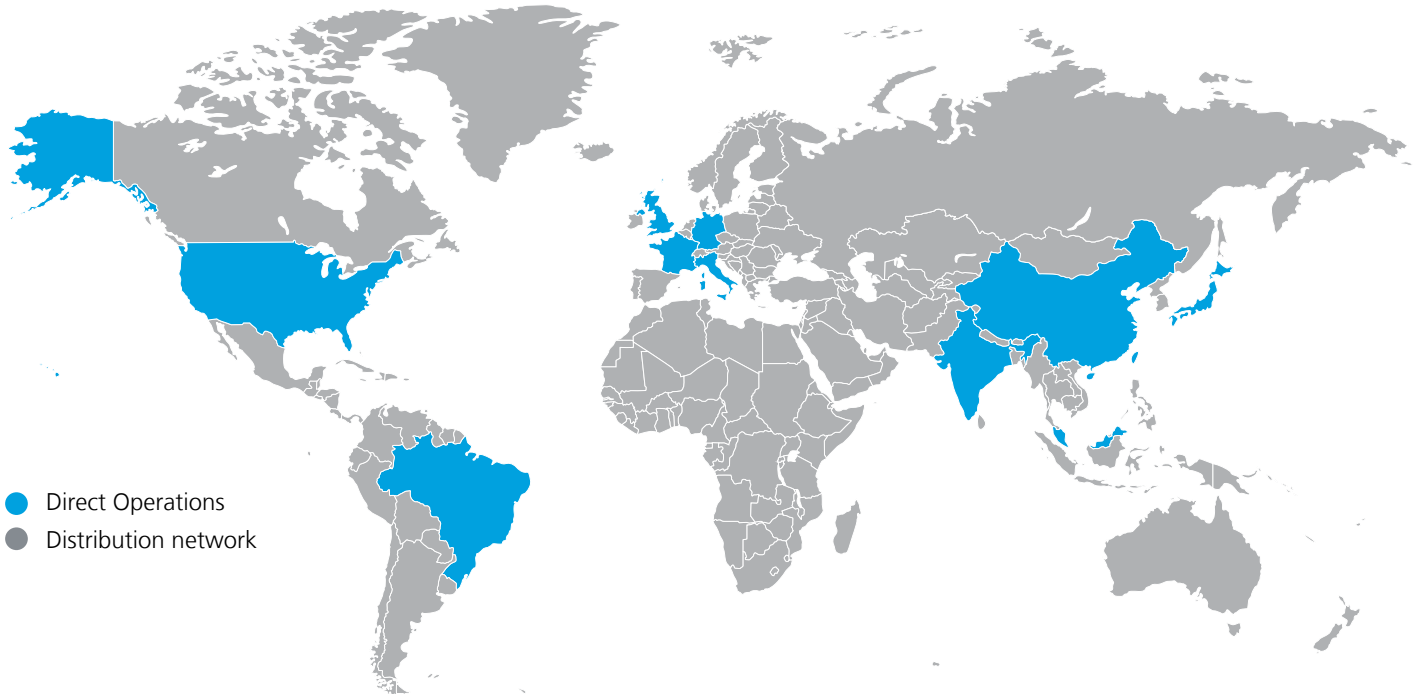
Laboratory / Life sciences

Sample preparation and dissection in a laboratory is made safer and easier with Lynx EVO. The eyepiece-less viewing head not only allows protective goggles or glasses to be worn, but also allows Lynx EVO to be used when placed in a laminar flow, or safety cabinet.

From forensics to fibre optics, solar cells and packaging, Lynx EVO can be utilised for thousands of inspection tasks...



Vision Engineering is a global manufacturer of ergonomic stereo microscopes, digital inspection systems and optical and video measuring systems.



Since 1958, Vision Engineering has become one of the worlds most innovative and dynamic microscope suppliers.

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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www.visioneng.com



Stereo Dynascopic Microscope for inspection and material rework

- Wide range of magnification x3.5 - x120
- Patented stereo eyepieceless optical technology provides superb resolution and contrast
- Easy hand-to-eye coordination resulting in increased throughput, accuracy and reduced scrap
- Long-life, true colour LED illumination for shadow-free viewing of complex surfaces

Eyepieceless Stereo Dynascopic Microscope



The Lynx stereo microscope utilises Vision Engineering's patented Dynascope technology. Dynascope technology offers the user advanced ergonomics by removing the need for restrictive eyepieces.

Lynx is a unique eyepieceless stereo microscope for intricate tasks requiring high-resolution stereo viewing. The eyepieceless optics of Lynx significantly increase head freedom and eye relief, reducing operator stress and fatigue over long periods of time.

Lynx is used in a wide range of industry applications including general manufacturing, medical devices, electronics, precision engineering, plastics and rubber. The multiple accessories available for the Lynx enable a wide variety of tasks including inspection, manipulation, assembly, dissection, soldering, polishing, finishing and measurement.

Features and Benefits

- Incorporated modern advances in optical design allow your eyes and hands to work together resulting in increased throughput, accuracy and reduced scrap and rework.
- Wide magnification range of x3.5 – x120 provides clear, sharp images with long working distances and large depth of field.

Speed

- Increased head and body freedom for the operator leads to greater productivity, increased throughput, improved quality control and less fatigue.

Versatility

- Modular design allows for quick change over of accessories and options. For example, from rework to high magnification inspection on to image capture.

Ergonomics

- Patented Dynascope technology expands the exit pupil providing head freedom and eye relief for excellent ergonomics, superb hand-to-eye coordination and the ability to wear glasses if required.

Ease of Use

- Lynx offers simple 3-dimensional viewing, with the apparent distance to the viewed object image identical to that of the real object, eliminating re-focussing of the operator's eye; thus reducing the likelihood of fatigue.



Lynx, with swing away boom mount, for flexibility and ease of use.

Stand Options

- Adjustable, swing away, boom mount for mounting directly to user's work surface or with coated platform base for easy transport.

Crank handle option allows convenient vertical adjustment when frequent changes in working distance are required.

- Stable, focusable bench stand with subject holder, substage illumination and floating or measuring stage options.



Lynx bench stand with optional image capture accessory and floating stage

Technical Data

Optical

- Dynascope afocal stereo zoom eyepieceless microscope provides a 26.4° field angle.
- Dynascope patented technology optimises head and body freedom providing 10mm radial head freedom and 70mm axial head freedom.

Zoom Magnification (see table below)

- x7 – x40 multiplied by combinations of objective lenses and multipliers (total zoom magnification range x3.5 – x120).
- Zoom ratio 5.7:1
- Secondary multipliers x1.5 and x2.0
- Reducing objectives to increase working distance and field of view.
- Magnifying objectives to increase total magnification

Illumination

- 14 point LED ring light with intensity control
- Substage illumination (bench stand only) 12V/20W Halogen lamp.
- Option of tilting substage illuminator to enhance contrast

Lynx VS8 PCB Inspection Workstation

- Lynx VS8 is designed for specialist PCB inspection and comes complete with scanning table and a switchable oblique and direct viewer.



Accessories

Oblique and Direct Viewer

- Allows the operator to view a subject from an angle of 34° from vertical, which can be rotated through 360° enabling a better stereo view of 3-dimensional subjects including PCB solder joints, holes, pillars and thread forms.



Oblique and direct viewer

Fixed Angle Viewer

- Allows the user three options; a fixed angle of 25° from vertical, the ability to view vertically or tilting the optical head and using the system standing up.



Fixed angle viewer

Ergowedge

- Allows the view to be adjusted between -5° and -25° from horizontal.



Ergowedge

Image Capture and Archive

- Enhance your capabilities with a range of digital and USB camera options.
- Modular multimedia solutions for image archiving, acquisition, processing, analysis and documentation.



Image capture and archive

Step Magnification Multiplier

- Allows the stereo zoom range to be increased by a factor of x1.5 or x2 without any loss in working distance.

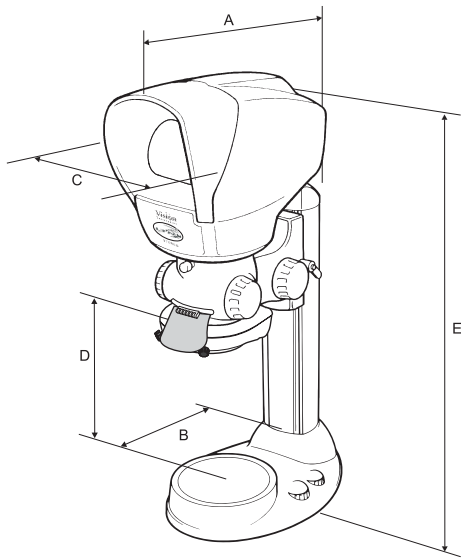


Step magnification multiplier

Measuring/Comparison Graticule

- Allows the user the ability to measure and compare against a scale. Standard range is available as a crossline or graduated scale. Custom graticules can be manufactured to specific designs.

Objective Lens	Zoom Range			Working Distance	Field of View at Max. Zoom			Field of View at Min. Zoom		
		with x1.5 multiplier	with x2.0 multiplier			with x1.5 multiplier	with x2.0 multiplier		with x1.5 multiplier	with x2.0 multiplier
x0.5	x3.5 – x20	x5.3 – x30	x7.0 – x40	177mm	6.7mm	4.3mm	3.3mm	38.0mm	25.3mm	19.0mm
x0.7	x4.9 – x28	x7.4 – x42	x9.8 – x56	130mm	4.8mm	3.2mm	2.4mm	27.0mm	18.0mm	13.5mm
x1.0	x7.0 – x40	x10.5 – x60	x14 – x80	85mm	3.5mm	2.3mm	1.7mm	18.7mm	12.5mm	9.4mm
x1.5	x10.5 – x60	x15.8 – x90	x21 – x120	47mm	2.3mm	1.5mm	1.2mm	12.9mm	8.6mm	6.5mm



Lynx Bench Stand

Bench Stand:

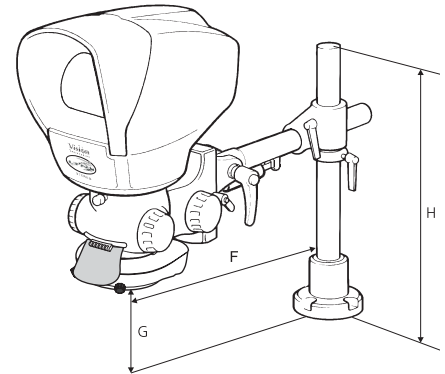
- A = 280mm
- B = 150mm
- C = 200mm
- D = 150mm max, less working distance
- E = 760mm

Unpacked weight: 18.0kg
Packed weight: 22.0kg

Boom Mount:

- F = 400mm maximum
- G = 310mm max, less working distance
- H = 435mm

Unpacked weight: 18.0kg
Packed weight: 22.0kg



Lynx Boom Mount

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Distributor



Lynx[®] VS8 Stereo Inspection Workstation

for dedicated PCB inspection, including Fine Pitch, Surface Mount, TAB and BGA technology.

Lynx VS8 is an advanced stereo zoom microscope for Printed Circuit Board inspection and is ideal for all electronics applications including fine pitch, surface mount, TAB and BGA technology.

- Patented stereo eyepieceless optics provide superb image resolution and contrast for improved fault detection.
- Easy hand-to-eye coordination reduces operator fatigue, resulting in increased throughput, accuracy and reduced scrap.
- Switchable direct or oblique, rotating views allow detailed inspection of solder joints, holes, pillars and thread forms.



Lynx VS8 with patented eyepieceless optics for specialist PCB inspection.



Oblique and direct viewer allows a 34° from vertical view, which can be rotated through 360° for superb stereo view of 3-dimensional subjects.

Lynx VS8 is a variant of Vision Engineering's Lynx stereo microscope. Lynx utilises Vision Engineering's patented Dynascope™ technology to offer the user advanced ergonomics by removing the need for restrictive eyepieces. Lynx VS8 is in use in tens of thousands of PCB manufacturing sites worldwide and provides optimum ergonomics to reduce fatigue, increase operator accuracy and reduce scrap.

Scanning Stage

- Stable, high capacity scanning stage provides free floating movement for all sizes of board, including double sided PCBs. Stage can be locked for precision inspection tasks (x-axis, y-axis, or both). Complete with earthing point for static safe inspection.

Scanning stage	PCB capacity	Viewing area
Standard capacity stage	310mm x 310mm	300mm x 250mm
High capacity stage	460mm x 460mm	450mm x 250mm

Oblique and Direct Viewer

- Allows the operator to view a subject direct or from an angle of 34° from vertical, which can be rotated through 360° enabling a better stereo view of 3-dimensional subjects including PCB solder joints, holes, pillars and thread forms. Integral LED lighting provides long-life, true-colour illumination.



Oblique and direct viewer

Image Capture and Archive

- Digital, USB and 35mm SLR cameras including Sony, Nikon, Pixera, Canon and other leading makes.
- Modular multimedia solutions for image archiving, acquisition, processing, analysis and documentation.



Image capture and archive

Technical Data

Optical

- Dynascope afocal stereo zoom eyepieceless microscope provides a 26.4° field angle.
- Dynascope patented technology optimises head and body freedom providing 10mm radial head freedom and 70mm axial head freedom.

Zoom Magnification (see table)

- x8.2 - x45 standard zoom range.
- Zoom ratio 5.7:1

Illumination

- 14 point LED ring light with intensity control.

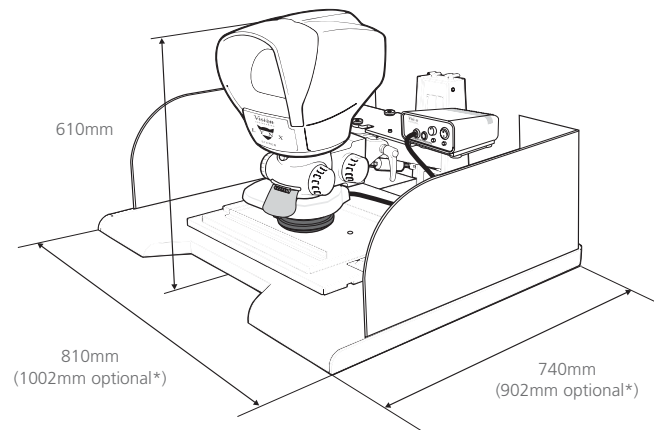
Optical Data

Zoom range		Working distance		Direct view Field of view		Oblique view Field of view	
Direct view	Oblique view	Direct view	Oblique view	at max. zoom	at min. zoom	at max. zoom	at min. zoom (uninterrupted)
x8.2 - x45	x4.9 - x28	57mm	37mm	3.1mm	17.0mm	5.0mm	16.0mm

Weights

- Unpacked weight: 38.5kg (max.)
- Packed weight: 52.5kg (max.)

Dimensions



* High capacity stage.

For more information...

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