



## Stereo Dynascopic Microscope for inspection and material rework

- Wide range of magnification x2.1 - 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 color LED illumination for shadow-free viewing of complex surfaces

# Eyepieceless Stereo Dynascopic Microscope



The Lynx stereo microscope utilizes 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.



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

## 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 x2.1 – 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.

## 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

# Eyepieceless Stereo Dynascopic Microscope



## Technical Data

### Optical

- Dynascope afocal stereo zoom eyepieceless microscope provides a 26.4° field angle.
- Dynascope patented technology optimizes 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 x2.1 – 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

- Digital, USB and 35mm SLR cameras including Sony, Nikon, VisionCam, Canon and other leading makes.
- 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.

### Measuring/Comparison Graticule

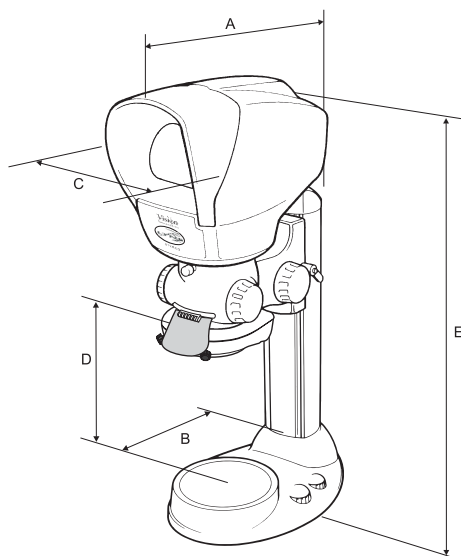
- Allows the user the ability to measure and compare against a scale. Standard range is available as a crossline or graduated scale. Custom graticules can be manufactured to specific designs.



Step magnification multiplier

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
<b>x0.3*</b>	x2.1 – x12	x3.2 – x18	x4.2 – x24	312mm	10.9mm	7.3mm	5.4mm	62.0mm	41.3mm	31.0mm
<b>x0.5</b>	x3.5 – x20	x5.3 – x30	x7.0 – x40	177mm	6.7mm	4.3mm	3.3mm	38.0mm	25.3mm	19.0mm
<b>x0.7</b>	x4.9 – x28	x7.4 – x42	x9.8 – x56	130mm	4.8mm	3.2mm	2.4mm	27.0mm	18.0mm	13.5mm
<b>x1.0</b>	x7.0 – x40	x10.5 – x60	x14 – x80	85mm	3.5mm	2.3mm	1.7mm	18.7mm	12.5mm	9.4mm
<b>x1.5</b>	x10.5 – x60	x15.8 – x90	x21 – x120	47mm	2.3mm	1.5mm	1.2mm	12.9mm	8.6mm	6.5mm

\* when using the x0.3 objective lens with a bench stand model, an extended stand column is required to accommodate the increased working distance.



**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:**

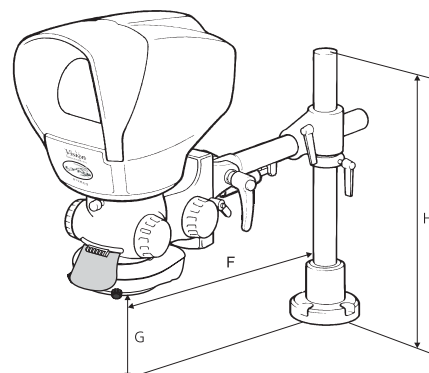
**F** = 400mm maximum

**G** = 310mm max, less working distance

**H** = 435mm

Unpacked weight: 18.0kg

Packed weight: 22.0kg



**Lynx Boom Mount**

## **For more information...**

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