





Lynx stereo dynascopic microscope

Vision Engineering manufacture a wide range of patented optical systems, offering fatigue-free viewing with superb hand/eye co-ordination, for improved quality and productivity.

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

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.

Health & Safety





Vision Engineering and its products conforms to the requirements of the EC Directives on Waste Electrical and Electronic Equipment (WEEE) and Restriction of Hazardous Substances (RoHS).

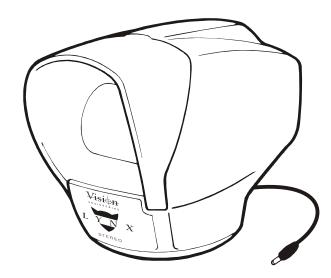
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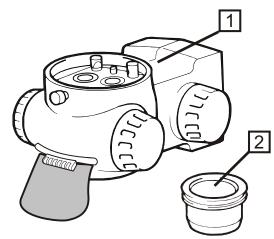
Head assembly

The head pack contains the Lynx viewing head.



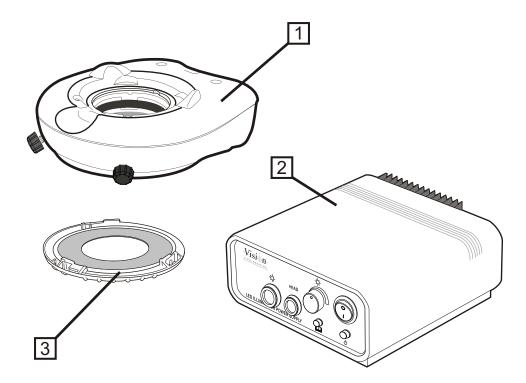
Zoom/focus assembly

- 1 Zoom/focus assembly
- 2 Objective



Illumination assembly

- 1 LED Ringlight
- 2 Power Supply
- 3 Converging lens



Stand assembly

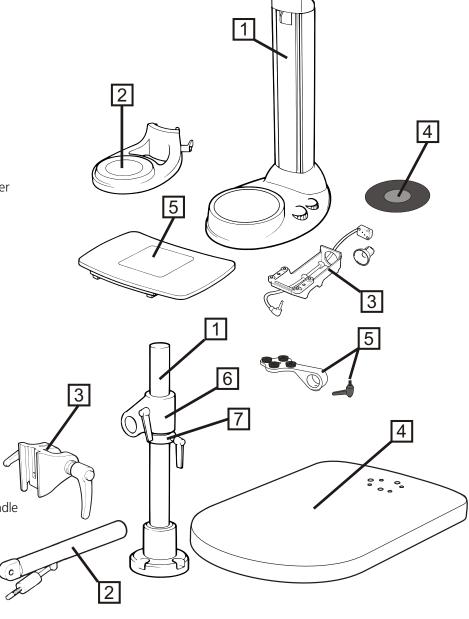
Bench stand

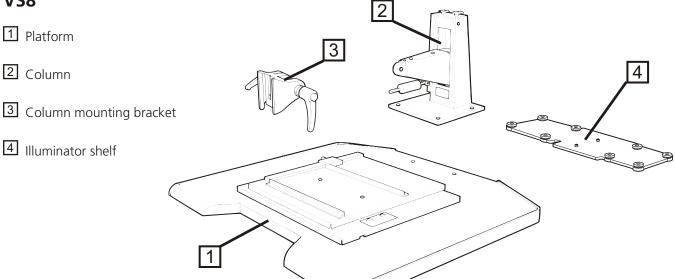
- 1 Column and stand
- 2 Adjustable subject platform
- 3 Substage illuminator (optional)
- 4 Condenser assembly with diffuser (optional)
- 5 Floating stage (optional)

Boom mount

- 1 Upright boom bar
- 2 Horizontal boom bar
- 3 Boom mount bracket
- 4 Platform (optional)
- 5 Control box shelf and locking handle
- 6 Support collar
- **7** Securing collar

VS8

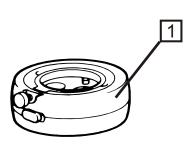


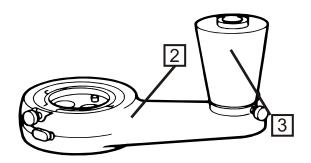


Accessories

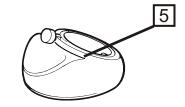
- 1 Zoom multiplier
- 2 Photo arm
- 3 Photographic adapter (various)
- 4 Objectives (various)

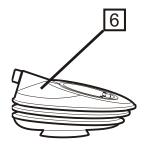
- 5 Fixed angle viewer
- 6 Ergowedge angle adapter
- 7 LED oblique and direct viewer
- 8 Graticule
- 9 Unicam



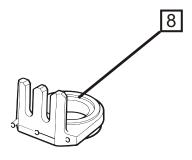


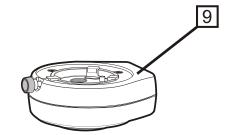








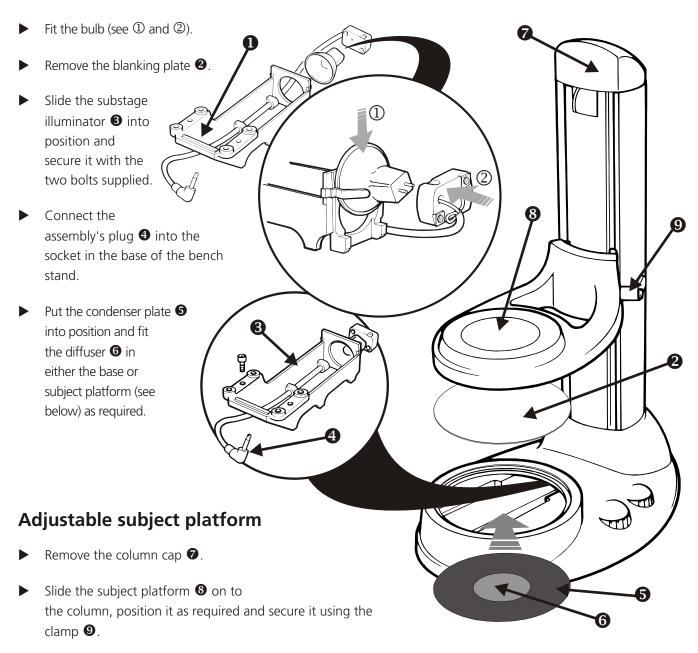




Bench stand

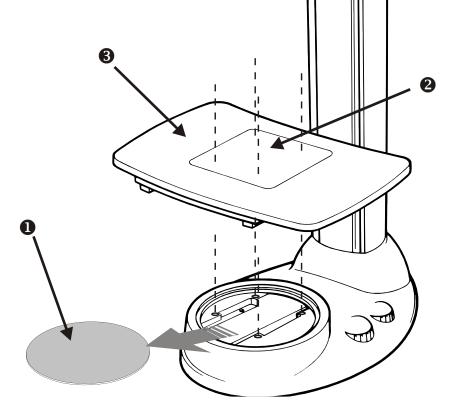
Substage illuminator (optional)

lacktriangle Remove the protective film from the mirror lacktriangle.



Floating stage (optional)

- ▶ Remove the blanking plate **①** and stage glass **②**.
- ▶ Lower the stage **3** onto the stand and secure it with the 4 bolts supplied.
- Replace the stage glass.

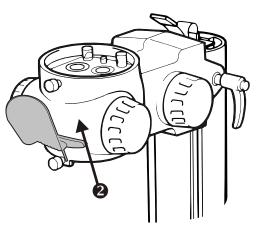


Zoom/focus assembly

▶ Remove the column cap **①**. Slide the zoom/focus assembly **②** on to the column to allow the column connector to be attached to the male connector at the rear of the assembly.



► Replace the column cap.



Boom mount

Work surface mounting

Drill holes in the bench using the template ①.
 Allow room for the horizontal support bar ② to protrude behind the Lynx.

- ► Feed the stand securing bolts **3** up through the pressure cups **4** and secure into the stand base.
- ► Attach the horizontal support bar to the vertical bar **5**.
- ➤ Slide the securing collar **6** up and lock it in the desired position.

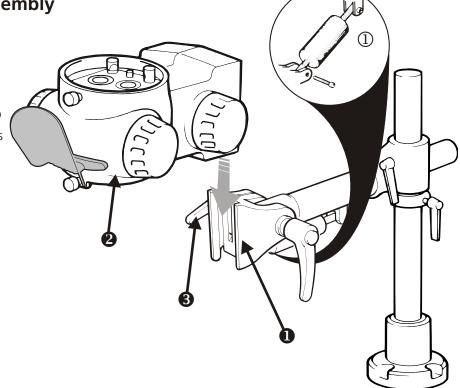
➤ Slide the control box shelf ② over the horizontal support bar and secure it with the locking handle ③.



If you have purchased the optional platform **9**, the mounting procedure is identical to that described above with the exception that there is no need to drill the mounting holes as the platform comes pre-drilled.



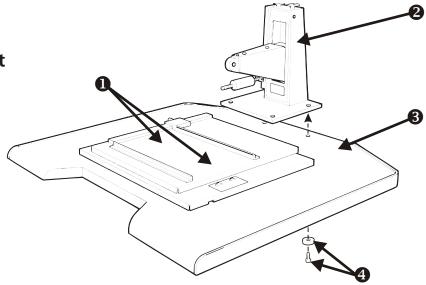
- Attach the boom mount bracket
 to the horizontal post (see inset ①).
- Slide the zoom/focus assembly 2 on to the interface and tighten its securing clamp 3.



VS8

Column to stand attachment

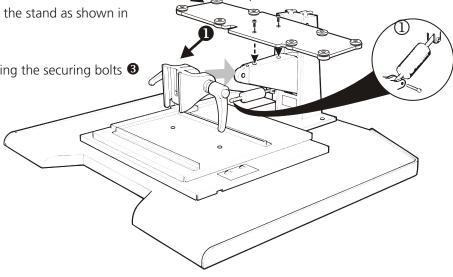
- ► Remove the transit screws **①**.
- Attach the column 2 to the stand
 using the securing bolts and pressure cups 4 (4 off each).



Interface bracket and illuminator shelf

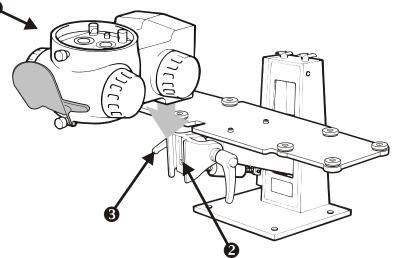
► Attach the interface bracket **①** to the stand as shown in inset ①.

► Attach the control box shelf ② using the securing bolts ③ supplied.



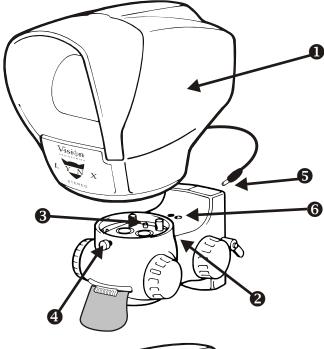
Zoom/focus assembly

➤ Slide the zoom/focus assembly **①** on to the interface bracket **②** and tighten its securing clamp **③**.



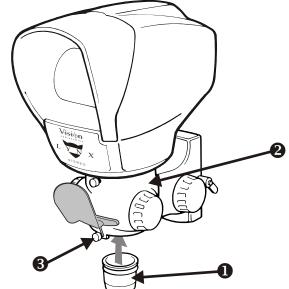
Head

- ▶ Place the head ① on to the zoom/focus assembly ②, ensuring the alignment pin ③ in the zoom/focus assembly lines up with the relevant slot in the head. Tighten the securing screw ④.
- ► Insert the head connector **⑤** into the head socket **⑥**.



Objective lens

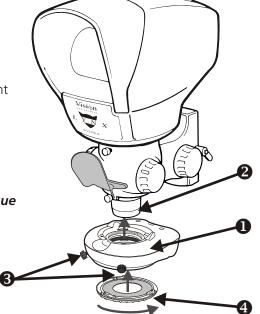
Note: For the equivalent procedure for the VS8, see LED oblique and direct viewer on page 11.



Ringlight

- ▶ Place the ringlight **1** into position over the objective lens **2** and tighten the securing screws **3**.
- Attach the ringlight's cable between the control box and the ringlight (see **Attaching the LED ringlight cable** on page 9).
- ► Clip the converging lens ④ into place (only required if using x1.5 or x2 magnifying lenses, or x0.3 or x0.5 reducing lenses).

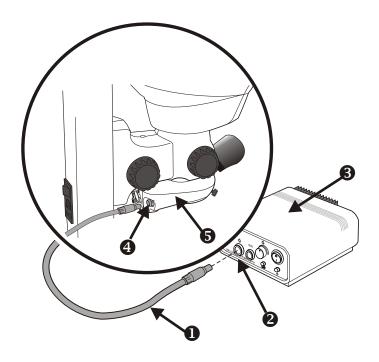
Note: For the equivalent procedure for the VS8, see LED oblique and direct viewer on page 11.



Cable connection

Attaching the LED ringlight cable

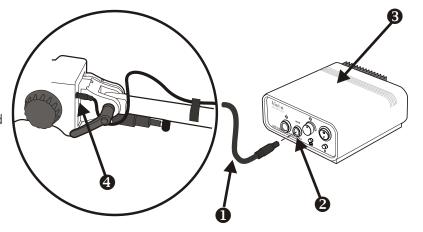
- ► Connect the LED ringlight cable **1** to the illuminator socket **2** on the front of the control box **3**.
- ➤ Connect the other end of the cable to the connector **4** on the rear of the LED ringlight **5**.



Zoom/focus assembly power cable

Note: This procedure is for the boom mount only.

► Connect the head power cable **1** to the head connector socket **2** on the front of the control box **3**. Connect the other end of the cable to the head power input connector **4**.



Control box mains connection (boom mount, VS8 & ringlight)

The mains input connector is located on the rear of the control box and is comprised of the input socket

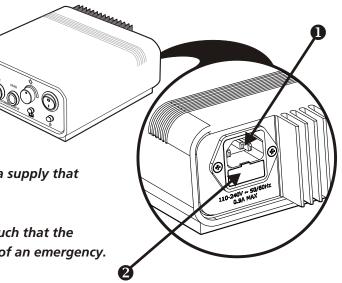
1, and fuse **2**.

Notes:

If replacing, ensure the correct fuse is fitted for your supply voltage.

Mains cables should only be connected to a supply that has an earth, using the cables supplied.

The power supply unit should be located such that the mains lead can be unplugged in the event of an emergency.

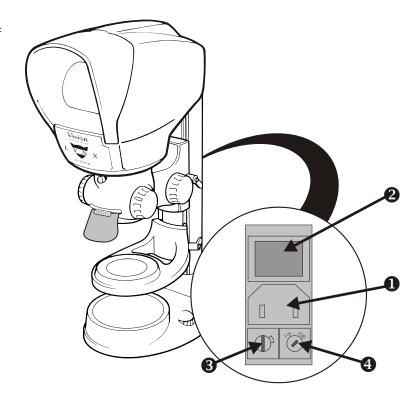


Mains connection bench stand

The mains input connector is located on the rear of the bench stand and is comprised of the input socket **①**, on/off switch **②**, fuse **③** and input voltage selector **④**.

Note:

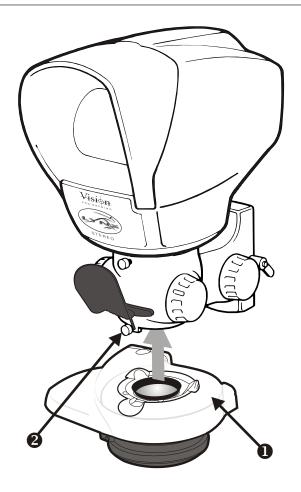
Ensure the input voltage selector is set to the correct mains supply voltage.



LED oblique and direct viewer

Note: The LED oblique and direct viewer includes an integrated objective lens and LED ringlight.

- ▶ Place the LED oblique and direct viewer **1** into position and tighten the securing screw **2**.
- Attach the viewer's cable to the illuminator (see below).



LED oblique and direct viewer cable connection

► Connect the LED oblique and direct viewer cable **1** to the illuminator socket **2** on the front of the control box **3**.

► Connect the other end of the cable to the connector ④ on the rear of the LED oblique and direct viewer ⑤.

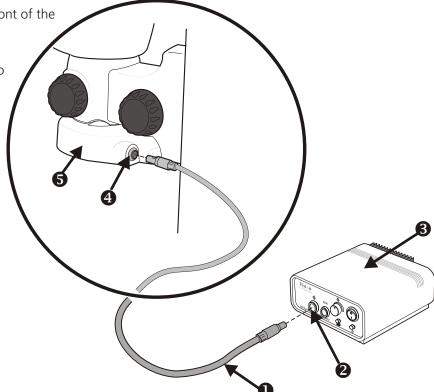


Photo arm

- Remove the head **1**. Place the photo arm 2 into position and tighten the securing screw **3**.
- Replace the head on to the assembly and tighten the head securing screw 4.

Attach the appropriate camera adapter **5** to the photo arm and tighten the securing screws **6**.

The camera attaches to the interface.

Set up the camera interface as detailed in the datasheet provided.

Note: There are many digital cameras available on the

> market. In order for a digital camera to interface to your Lynx, it must have a C-Mount interface. Contact Vision Engineering to see if an adapter is available. Cameras and video equipment purchased through Vision Engineering have been tested for

compatibility.

Adapters for USB, digital and 35mm Note:

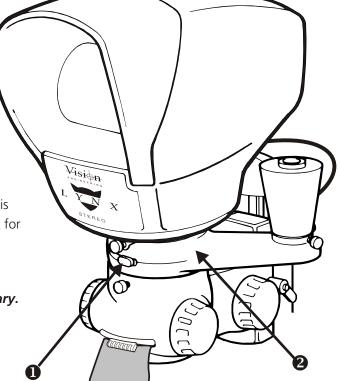
SLR cameras are different.

Operation

The photo arm is the first component to be installed, regardless of camera type. It mounts between the zoom body and the Dynascope head (see above).

To see the image through the camera, slide the lever **1** on the camera arm **2** all the way to the left. This will re-direct the right-hand optical path to the camera and eliminate that path from the viewing screen, thereby yielding a mono image. For this reason engage the camera only when needed and not for normal stereo viewing.

Refer to the camera and adapter product datasheets for more information if necessary.



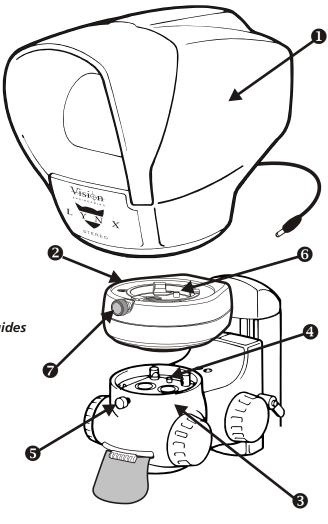
Note:



Unicam

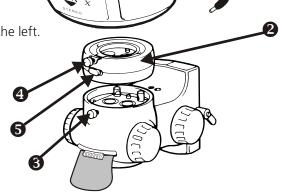
- ▶ Remove the head ① and place the Unicam ② on the zoom/focus assembly ③, ensuring the alignment pin ④ in the zoom/focus assembly lines up with the relevant slot in the Unicam.
- ► Tighten the securing screw **5**.
- ► Replace the head, ensuring the alignment pin **6** in the Unicam lines up with the relevant slot in the Head.
- ► Tighten the securing screw **②**.

Note: For connection, setup and operating instructions, refer to the Unicam User Guides supplied with the unit.



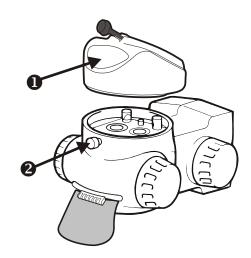
Zoom multiplier

- ▶ Remove the head ①. Place the zoom multiplier assembly ② into position and tighten the securing screw ③.
- ► Replace the head on to the assembly and tighten the head securing screw ④.
- ▶ To engage the multiplier, slide its lever **⑤** all the way to the left.

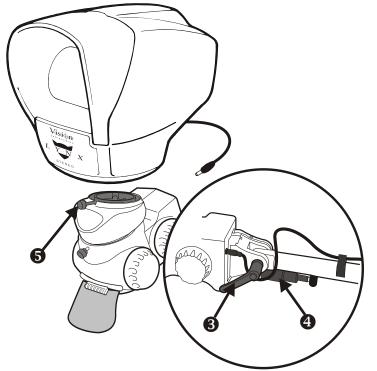


Fixed angle viewer (boom mount only)

▶ Remove the head. Place the fixed angle viewer **1** into position and tighten the securing screw **2**.

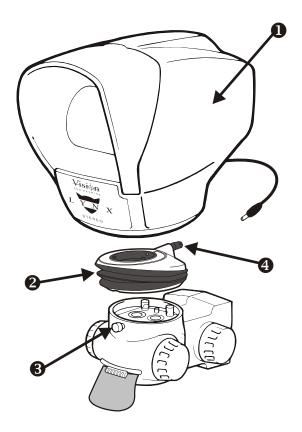


- ▶ Loosen the securing clamp ③ and turn the knurled tilt adjustment knob ④ so that the top of the fixed angle viewer is parallel to the work surface.
- ► Retighten the securing clamp.
- ▶ Replace the head on to the assembly and tighten the head securing screw **⑤**.



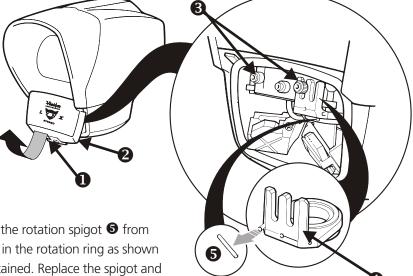
Ergowedge

- ▶ Remove the head **①**. Place the ergowedge **②** into position and tighten the securing screw **③**.
- ► Replace the head on to the assembly and tighten the head securing screw **4**.
- ► The head can now be tilted forward and backward as required.

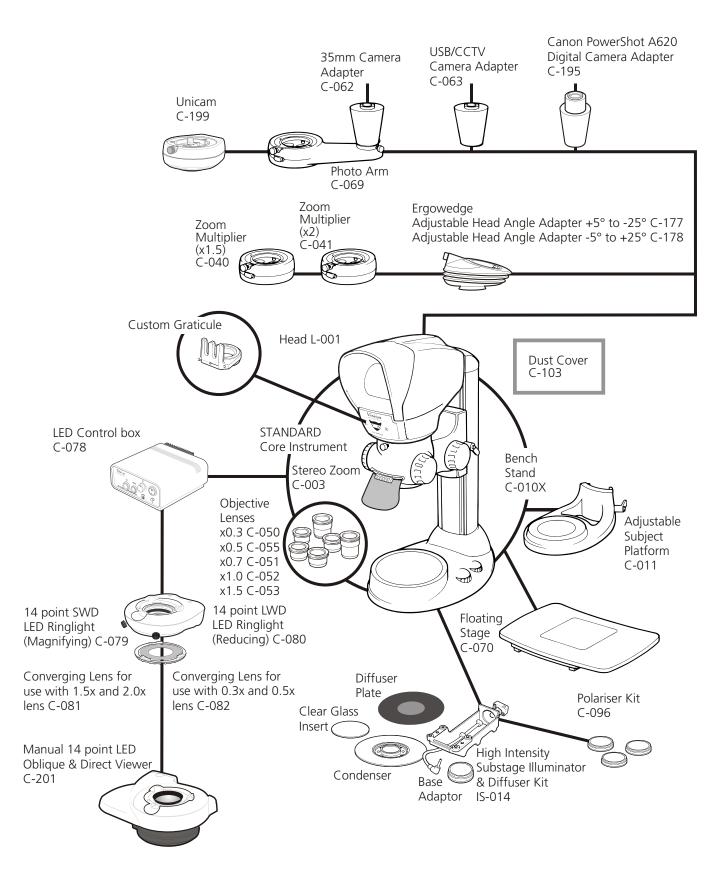


Graticule

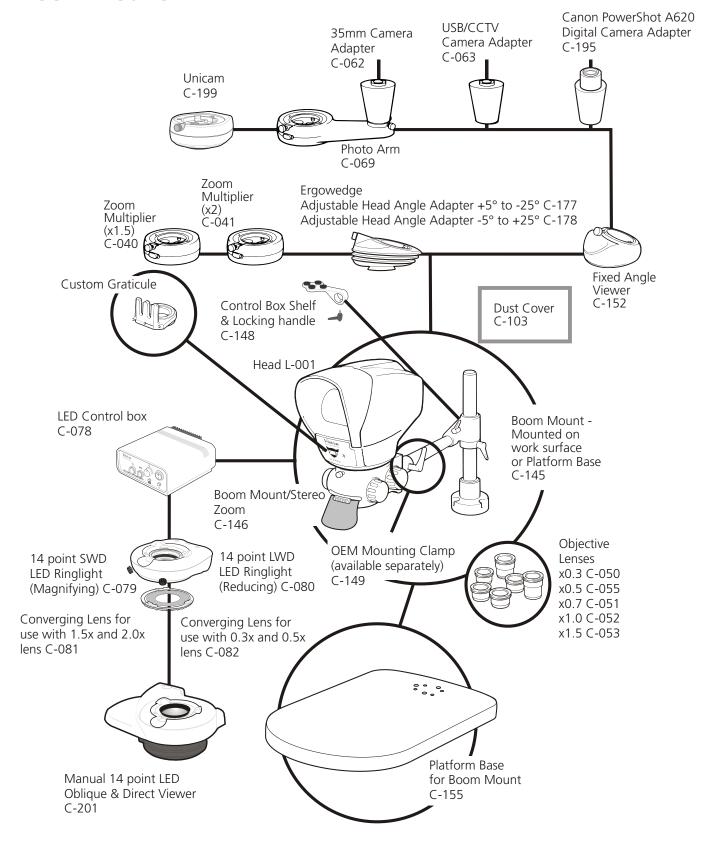
- Turn on the Lynx and place a subject in the centre of the viewing platform.
- ➤ Squeeze the securing clip **①** at the base of the front cover **②** and lift the cover off.
- Loosen the appropriate retaining knob 3 (the graticule can be placed on either side of the head), slide the graticule 4 into position and move the graticule up or down for focus and sideways to centralize. Re-tighten the retaining knob.
- ➤ To adjust the graticule rotationally, remove the rotation spigot **⑤** from its storage position in the graticule, insert it in the rotation ring as shown and rotate it until the correct position is obtained. Replace the spigot and close the front cover.



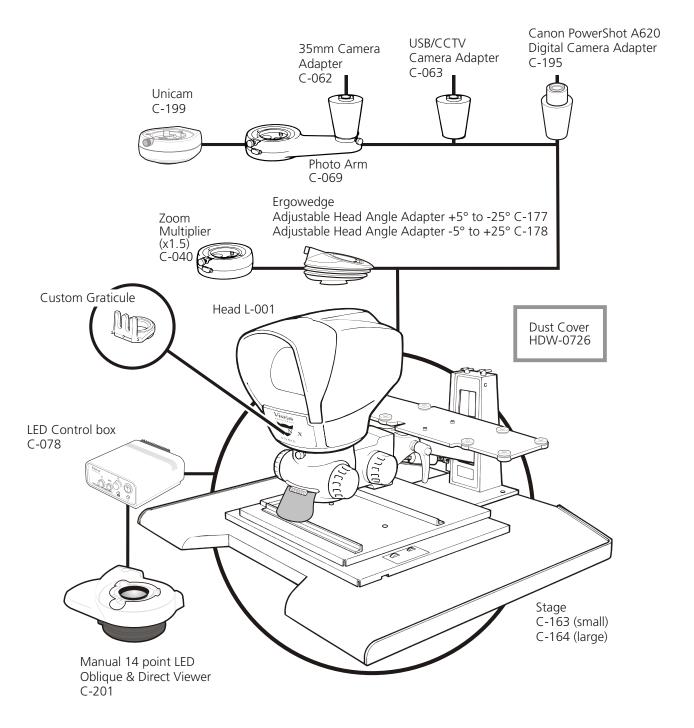
Bench stand



Boom mount



VS8



Head and LED illuminator control box

Icons

The icons on the front panel of the control box symbolise the following:

On/Off switch



Power on indicator



Illuminator intensity control



Ringlight connection point



Refer to manual

HEAD Power for viewing unit (boom mount only)

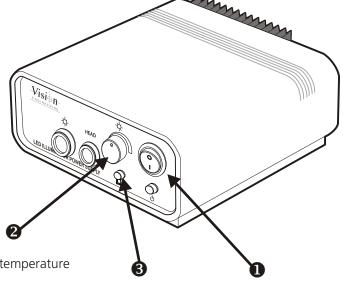
Controls

The LED ringlight, which can be used with substage illumination, provides above stage illumination and is used for illuminating surface features, blind holes, etc.

- Switch the unit on **1** and adjust intensity by rotating the dimmer control **2**.
- ► The LED illuminator is provided with a temperature protection system ③ to ensure long term LED performance is not compromised by overheating.

If the temperature protection indicator illuminates, the power to the LED's will gradually reduce until the temperature stabilises. If the indicator remains illuminated,

remove the illuminator and ensure neither the air inlet around the objective, nor the fan outlet are obstructed.



LED illuminator specification

The LED illuminator unit has an integral power supply with the following specification:

Input voltage: 110 to 240v ~ 50/60Hz 0.9A max

Fuse rating: 110v 1.0A anti-surge type

230v 0.5A anti-surge type

The fuse is located in the IEC mains connector on the rear of the control box (see page 10).

Bench stand controls

The bench stand controls are comprised of the zoom height control **①**, focus control **②**, zoom control **③**, subject platform height adjuster **④**, substage illuminator dimmer **⑤** and redundant control **⑥**.

Getting started

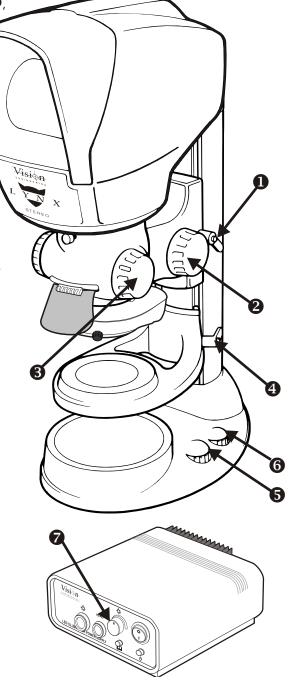
Turn on the illuminator and bench stand power supplies.

▶ Place the subject to be viewed in the centre of the viewing platform.

Set the zoom height control to the approximate working distance for the objective lens fitted (see Magnification table on page 23).

► Turn the zoom control to maximum magnification and adjust the focus control to obtain a clear, sharp image of the subject. The focus will now be maintained throughout the zoom range.

► The level of illumination is adjusted using the control **②** located on the front of the control box.

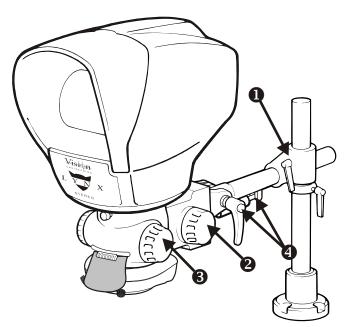


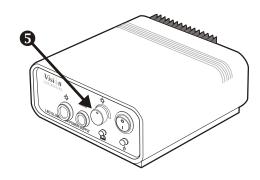
Boom mount controls

The boom mount controls are comprised of the head height control **①**, focus control **②**, zoom control **③** and zoom angle controls **④**.

Getting started

- ► Turn on the illuminator and bench stand power supplies.
- ▶ Place the subject to be viewed in the centre of the viewing platform.
- Set the zoom height control to the approximate working distance for the objective lens fitted (see Magnification table on page 23).
- Turn the zoom control to maximum magnification and adjust the focus control to obtain a clear, sharp image of the subject. The focus will now be maintained throughout the zoom range.
- ► The level of illumination is adjusted using the control • located on the front of the control box.





VS8 controls

The VS8 controls are comprised of the focus control $\ \ \ \$ and zoom control $\ \ \ \$ and the control box $\ \ \ \$ $\ \$.

Getting started

- Turn on the illuminator and bench stand power supplies.
- Place the subject to be viewed in the centre of the viewing platform.
- ➤ Set the zoom height control to the approximate working distance for the objective lens fitted (see **Magnification Table** on page 23).
- ► Turn the zoom control to maximum magnification and adjust the focus control to obtain a clear, sharp image of the subject. The focus will now be maintained throughout the zoom range.
- ▶ The level of illumination is adjusted using the control ④ located on the front of the control box.
- For details of how to operate the oblique and direct viewer, see below.

LED oblique and direct viewer operation

The direct and oblique viewer can be switched between direct and oblique view by swivelling the viewer into the designed position. Once in position, the oblique viewer can be manually rotated by turning the knurled ring on the viewer to provide a rotated oblique view of the subject.

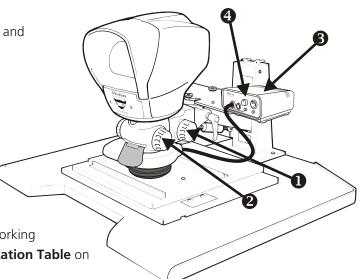
Operating techniques

When properly set up, and when viewing in the oblique mode, the centre of the image should be sharply in focus. The fringes of the field of view will not be as sharp as the centre due to the angle of the optical paths. At the lowest magnification settings, it is normal to have a dark area at the edge of the field of view. This is also due to the angle of the optical paths and diminishes as the zoom magnification is brought up from its minimum.

Procedure:

- Swing the viewer to the direct view position.
- ▶ Rotate the zoom knob fully to adjust for maximum magnification.
- Adjust the focus knob as required to get a sharp image of the subject. The system is now parfocal. The zoom magnification can be adjusted to any position and the image will stay clearly in focus.
- Swing the viewer to the oblique viewing position. The centre of the image will be in focus on the subject.
- To view a section of the subject that is not in focus, move the subject into the focussed area. Do not adjust the focus knob on the zoom body.

The oblique and direct viewer is now set up and ready for use.



Magnification table

Objective lens		Zoom range		Working distance	Field o	of view at ma	x zoom	Field o	of view at min	zoom
		with x1.5 multiplier	with x2 multiplier			with x1.5 multiplier	with x2 multiplier		with x1.5 multiplier	with x2 multiplier
x0.3*	x2.1 – x12	x3.2 – x18	x4.2 - x24	312mm	10.9mm	7.3mm	5.4mm	62.0mm	41.3mm	31.0mm
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

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

General care

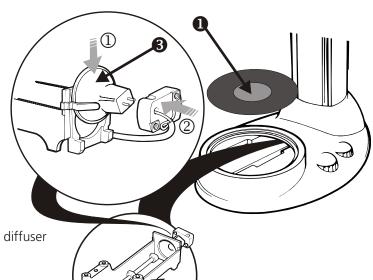
- ► Cover your Lynx with a dust cover when not in use.
- ▶ Remove dust with a soft brush or cleaning cloth.
- ▶ The viewing screen and lenses should be cleaned with a lens cleaning cloth.
- ► Keep accessories in a dust-free environment when not in use.

Warning: Switch the mains supply to the unit off before performing any maintenance.

Changing the substage bulb

- ► Remove the condenser and diffuser plate **①**.
- ▶ Disconnect and remove the substage illuminator ②.
- Remove the bulb 3 and replace it with a 20W/12V Dichroic lamp (2000 hour) as shown in ⊕ and ⊕.

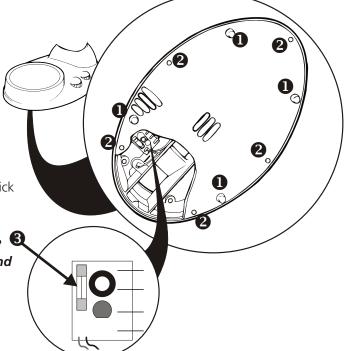
Replace the substage illuminator, condenser and diffuser plate.



Changing the substage fuse

- ► Remove the four rubber feet **①** from the base (push fit).
- ▶ Remove the five base securing screws **②**.
- ► Replace the substage fuse **3** with an 800mA quick blow type.

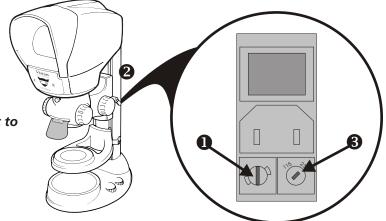
Note: When the base is replaced, ensure the heat slots line up with the heatsink and substage bulb.



Changing the mains input fuse

- ► The mains input fuse **①** is located on the rear of the bench stand **②**.
- ► Replace with the correctly rated fuse as indicated.

Note: Ensure the voltage selector **3** is set to the correct mains supply voltage.



Servicing

Service and repair work must only be carried out by service engineers authorised by Vision Engineering.

Environmental considerations

- ▶ Position the Lynx on a firm, rigid table
- Avoid locating the instrument near to any source of vibration
- ► Ensure LED control box has sufficient ventilation
- ▶ Do not position the instrument close to a radiator or similar heating system
- ▶ Do not position the instrument in direct sunlight, or where bright reflections will prevent a comfortable viewing position.

Consumable and replacement parts

Item	Details	Part Number
Substage bulb	12V/20W (x4)	C-101
Anti-glare shield	Hinged glare shield	C-126
Substage fuse	800mA quick blow fuse	FUS-0255

Vision Engineering manufactures a wide range of stereo inspection and non-contact measuring systems. For all product information, please visit our website.

Stereo inspection systems

Product	Picture	Features	Description
Lentis		2.5 dioptresMulti layered anti reflective coated lens	A state of the art bench magnifier for inspection, manipulation and material rework.
Mantis		 x4 - x20 Magnification Shadow-free LED cold illumination, both surface and substage Long working distances, large depth of field 	The Mantis family is a unique range of optical systems without eyepieces, for intricate tasks requiring superb quality viewing over long periods of use. Available with universal arm or rigid bench stand option.
Alpha		 x2.1 – x160 magnification Camera option Expanded Pupil eyepieces 	Expanded Pupil eyepiece stereo zoom microscope. Available in boom and bench stand configuration with a wide range of optional accessories (e.g. lighting, cameras)
Beta		 x2.1 – x160 magnification Camera option Conventional eyepieces 	Conventional eyepiece stereo zoom microscope. Available in boom and bench stand configuration with a wide range of optional accessories (e.g. lighting, cameras)

Non-contact measuring systems

Product	Picture	Features	Description
Merlin		 150mm x 100mm stage X10 – X50 mag options QC-300 Microprocessor Manual Video Edge Detection 	2-axis video measuring system with touch screen video processor. Powerful yet simple to use, ideal for a wide range of gauging applications.
Peregrine		 150mm x 100mm stage x10 - x50 mag options QC-300 Microprocessor Automated video edge detection 	2-axis video measuring system with optical and video measurement capability. Simple to use, allowing for quick results every time.
Kestrel		150mm x 100mm stageQC200 MicroprocessorEyepieceless viewing system	Entry level, 2-axis measuring system. Ideal for shop floor gauging applications.
Hawk manual		 150mm x 150mm stage 2 or 3 axis capability Large stage option Eyepieceless viewing system 	Advanced manual measuring system, offering increased accuracy and capacity. Operates with QC200 and QC300 microprocessors.
Hawk precision		200mm x 150mm stage2 or 3 axis capabilityEyepieceless viewing system	High accuracy measuring system for 2 and 3 axis measurement. Operates with QC200 and QC300 microprocessors or QC5000 PC software.
Hawk automatic		 200mm x 150mm stage Video Edge Detection Motorised stage movement 2 or 3 axis capability 	Automated measuring system combining optical viewing head with PC based Video Edge Detection. 2 and 3 axis motorised stage movement controlled by QC5000 PC software.

Lynx serial number		
Lynx zoom/focus assembly serial number		

Service type	Comments	Date of service	Date of next service	Company	Signature



WARRANTY

This product is warranted to be free from defects in material and workmanship for a period of one year from the date of invoice to the original purchaser.

If during the warranty period the product is found to be defective, it will be repaired or replaced at facilities of Vision Engineering or elsewhere, all at the option of Vision Engineering. However, Vision Engineering reserves the right to refund the purchase price if it is unable to provide replacement, and repair is not commercially practicable or cannot be timely made. Parts not of Vision Engineering manufacture carry only the warranty of their manufacturer. Expendable components such as fuses carry no warranty.

This warranty does not cover damage in transit, damage caused by misuse, neglect, or carelessness, or damage resulting from either improper servicing or modification by other than Vision Engineering approved service personnel. Further, this warranty does not cover any routine maintenance work on the product described in the user guide or any minor maintenance work which is reasonably expected to be performed by the purchaser.

No responsibility is assumed for unsatisfactory operating performance due to environmental conditions such as humidity, dust, corrosive chemicals, deposition of oil or other foreign matter, spillage, or other conditions beyond the control of Vision Engineering.

Except as stated herein, Vision Engineering makes no other warranties, express or implied by law, whether for resale, fitness for a particular purpose or otherwise. Further, Vision Engineering shall not under any circumstances be liable for incidental, consequential or other damages.

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