



**LYNX**  
**EVO**

Power your productivity

## User Guide

Lynx EVO eyepiece-less stereo microscope

- Multi-axis stand
- Ergo stand



FM 557119

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

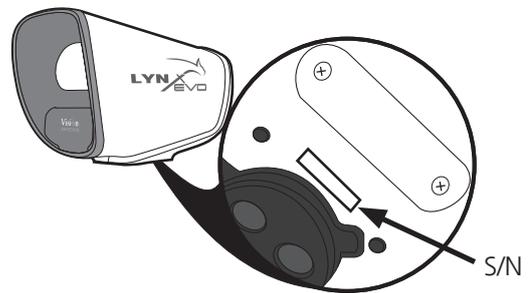
## System serial numbers

Unit type	Serial number
Head	
Zoom unit	
Ringlight	
Multi-axis stand	
Ergo stand	
Power supply	
Transmitted (substage) illumination module (option)	
Smart Cam camera (option)	
360° rotating viewer (option)	

## Serial number locations

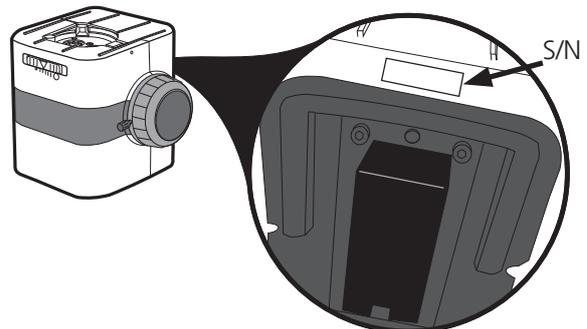
### Head

On the underside of the head, behind the dovetail mount.



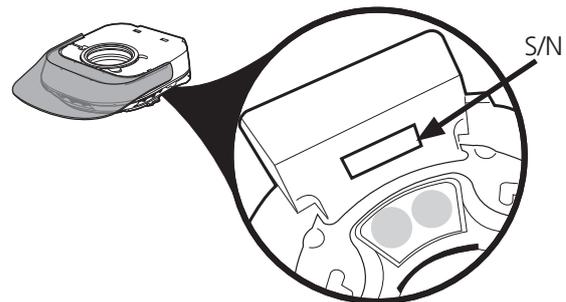
### Zoom unit

At the back of the zoom, above the mount.



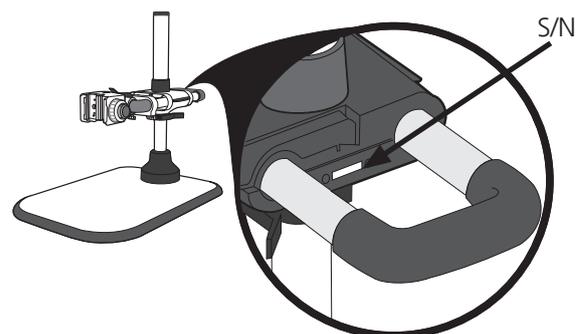
### Ringlight

On the underside of the ringlight, behind the LEDs.



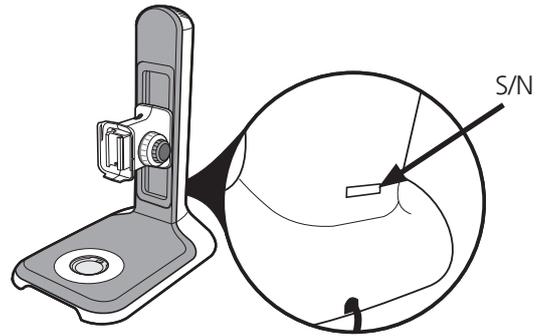
### Multi-axis stand

On the rear of the stand mechanism.



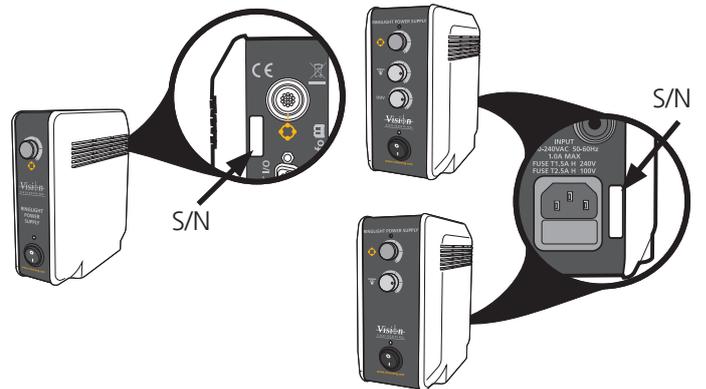
### Ergo stand

At the base of the column at the back.



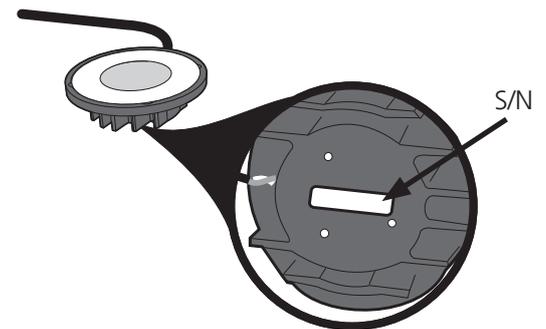
### Power supply unit

On the rear of the unit.



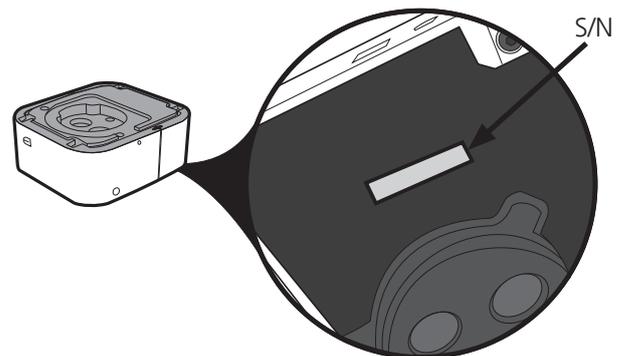
### Transmitted (substage) illumination module (option)

On the underside of the module.



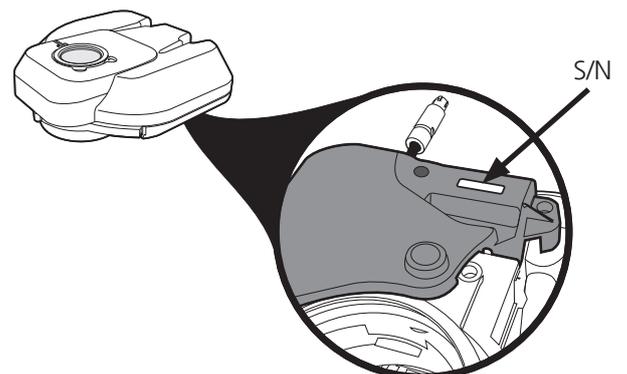
### Smart Cam (option)

On the underside of the camera module.



### 360° rotating viewer (option)

On the underside of the viewer to the rear.



# Copyright

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We have compiled the texts and illustrations as accurately as possible. However, Vision Engineering Ltd. will not be responsible for the accuracy of the information contained in this document, which is used at your own risk and should not be relied upon. The information included in this manual may be changed without prior notice.

## General

### Safety

Before using your system for the first time, please read the Health & safety section of the user guide.

Ensure that:

- Your system and accessories are operated, maintained and repaired by authorised and trained personnel only.
- All operators have read, understood and observe the user manual, in particular the safety regulations.

### Cleaning

- Disconnect your system from the electrical source before cleaning.
- Do not use any unsuitable cleaning agents, chemicals or techniques for cleaning.
- Never use chemicals to clean coloured surfaces or accessories with rubberised parts.
- Use a specialist lens cloth to clean optical surfaces.

### Servicing

Repairs may only be carried out by Vision Engineering-trained service personnel. Only original Vision Engineering spare parts may be used.

## Symbols used

### **Warning!**

A potential risk of danger exists. Failure to comply can cause i) a hazard to personnel; ii) instrument malfunction and damage. Please consult the operating instructions provided with the product.

### **Warning of electrical shock hazard**

This symbol indicates the presence of electric shock hazards. Please consult the operating instructions provided with the product.

### **Important information**

This symbol indicates important information. Please carefully follow the instructions or guidelines.

## Health & safety

### **Unauthorised alterations to the instrument or non-compliant use shall invalidate all rights to any warranty claims.**

### Electrical safety

- Disconnect your system from the electrical source before undertaking any maintenance.
- Avoid using any form of liquid near the system.
- Do not operate your system with wet hands.

### Heat safety

- A dust cover is supplied with your system. Turn off your system and ensure it has cooled down before using the dust cover.

### Illumination safety

- Do not look directly at the illuminated LED's. This may cause damage to the eyesight.

### Environmental considerations

- Avoid large temperature fluctuations, direct sunlight and vibrations.
- Ensure electrical components are at least 10cm from walls and combustible materials.
- Position the system on a firm, rigid and level table.
- The equipment should be positioned so that access to the electrical input connector is always available.
- Avoid positioning your system where bright reflections may affect the image.

### Operator wellbeing

- The advanced ergonomic design and construction of Vision Engineering products are intended to deliver superior ergonomic performance, reducing the exertion of the user to a minimum. Depending on the duration of uninterrupted work, appropriate measures should be taken to sustain optimal operator performance. This could include: Optimal arrangement of workplace; Variation in task activity; Training of personnel on workplace ergonomics and general health and safety principles.
- It is important to set-up and optimise your working environment correctly in order to obtain maximum benefit from the advanced ergonomic design of your system. For more information visit: [www.visioneng.com/ergonomics](http://www.visioneng.com/ergonomics)

### Compliance statements

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).



All Vision Engineering products conform to the CE mark, demonstrating that each product meets the requirements of the applicable EC directives. Where applicable, other characteristics of the CE directive are implied such as essential health and safety requirements from all the directives that applies to its product, including low voltage directive and the EMC directive.



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Lynx EVO high productivity eyepiece-less stereo microscope	1
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## Lynx EVO high productivity eyepiece-less stereo microscope

Vision Engineering Ltd. prides itself in designing and manufacturing products that make a real difference to your work and productivity. The patented eyepiece-less optical design of Lynx EVO opens up a new world of enhanced efficiency and productivity, making Lynx EVO the proven choice for a wide range of precision magnification tasks.

### A smarter, more productive way to work

For over half a century, Vision Engineering Ltd. has pioneered cutting-edge optical developments, introducing eyepiece-less microscopes to the world during the 1970s. Lynx EVO is the result of a continual research and development programme, bringing together pioneering optical developments with over 50 years' experience.

No other company has dedicated so much time to advancing microscope ergonomics, since we understand the critical link between operator ergonomics and increased efficiency and productivity. Rather than adapt our instruments to be more ergonomic, less fatiguing, easier to use, Vision Engineering's patented eyepiece-less stereo microscopes are naturally ergonomic. So the user benefits from significantly improved comfort and ease of use, and the business benefits from improved quality, increased productivity and reduced costs.

In order to fully benefit from the significant ergonomic advantages afforded by your system, it is also important to set-up and optimise your working environment. For more information visit: [www.visioneng.com/ergonomics](http://www.visioneng.com/ergonomics)

### Tell us what you think

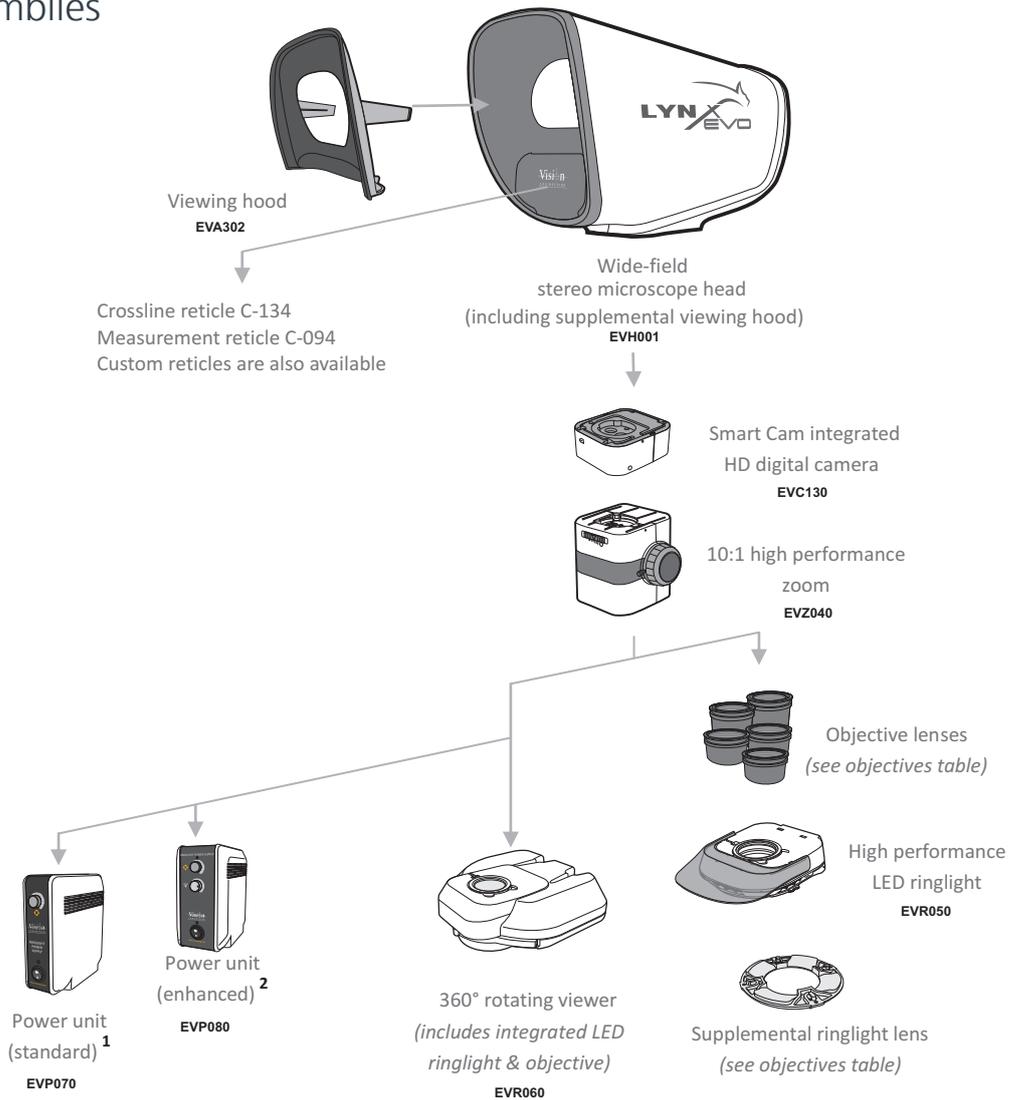
Vision Engineering work hard to make sure they deliver you good quality inspection and measurement solutions. We would love to hear what you think and how they have helped you to do your job more comfortably, efficiently, accurately...

Email: [marketing@visioneng.co.uk](mailto:marketing@visioneng.co.uk)



# SYSTEM DIAGRAM

## Sub-assemblies



### Power unit

- <sup>1</sup> LED ringlight; Smart Cam;  
360° rotating viewer (manual)
- <sup>2</sup> LED ringlight; Smart Cam;  
360° rotating viewer (manual);  
LED transmitted (substage) illuminator

### 360° rotating viewer

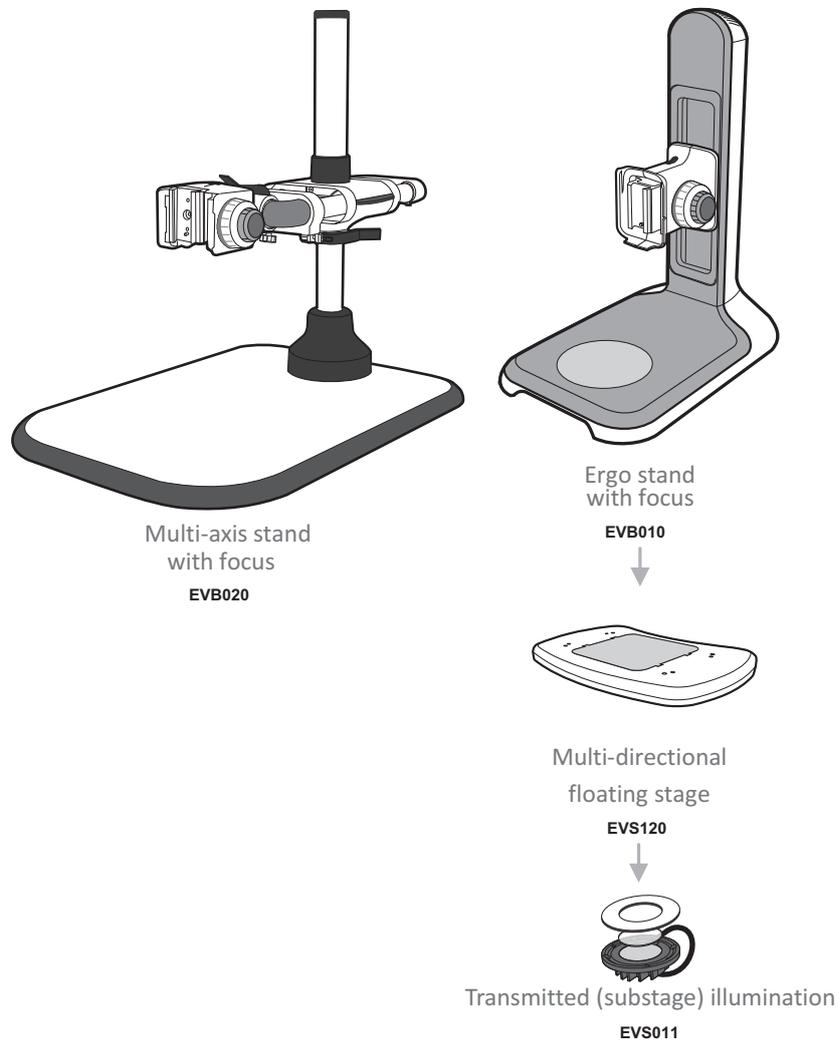
**Direct viewing:** 6.8x – 68x magnification, WD 56.5mm  
**360° rotating viewing:** 4.2x – 42x magnification, at an angle of 34° (from vertical), working distance 35.5mm.

360° rotating viewer includes integrated LED ringlight & objective lens.

## 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

## Stand options



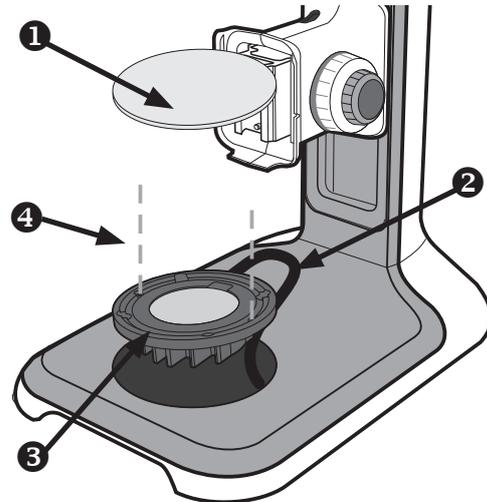
### Objective lenses

0.45x	<b>EVL045</b>	2.7x – 27x magnification super-long working distance lens (0.45x), WD 176mm - supplied secondary ringlight lens to optimise illumination
0.62x	<b>EVL062</b>	3.7x – 37x magnification extra-long working distance lens (0.62x), WD 128mm - supplied secondary ringlight lens to optimise illumination
1.0x	<b>EVL100</b>	6.0x – 60x magnification lens (1.0x), WD 75mm
1.5x	<b>EVL150</b>	9.0x – 90x high magnification lens (1.5x), WD 42mm - supplied secondary ringlight lens to optimise illumination
2.0x	<b>EVL200</b>	12x – 120x high magnification lens (2.0x), WD 29mm - supplied secondary ringlight lens to optimise illumination

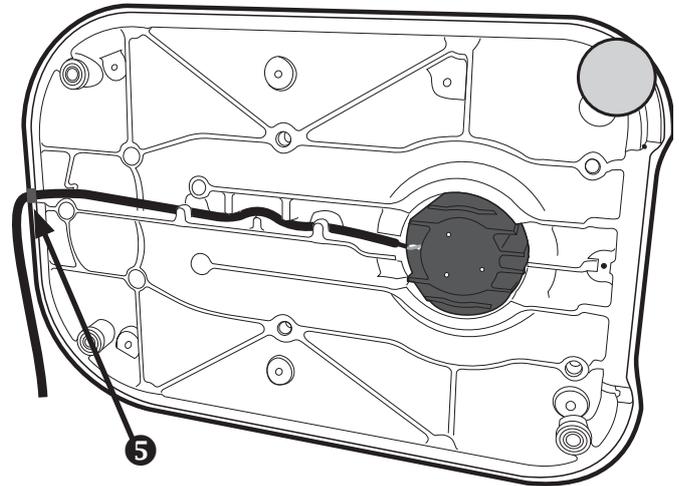
Note: WD denotes Working Distance.

## Transmitted (substage) illuminator (option)

- ▶ Remove the stage cover plate **1** and thread the lead **2** through the stand base.
- ▶ Locate the illuminator **3** into the stage base and secure it with the 2 screws **4**.

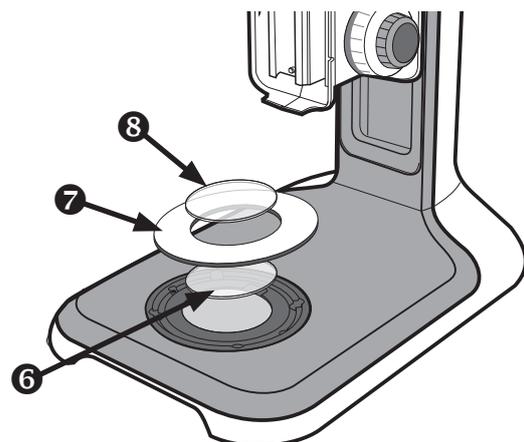


- ▶ Carefully lay the Ergo stand on to its side and thread the lead through the base as shown.
- ▶ Push the cable grommet **5** into the stand.



- ▶ Turn the Ergo stand upright and replace the illuminator diffuser **6**, surround **7** and glass **8**.
- ▶ See [page 9](#) for connecting the transmitted (substage) illuminator.

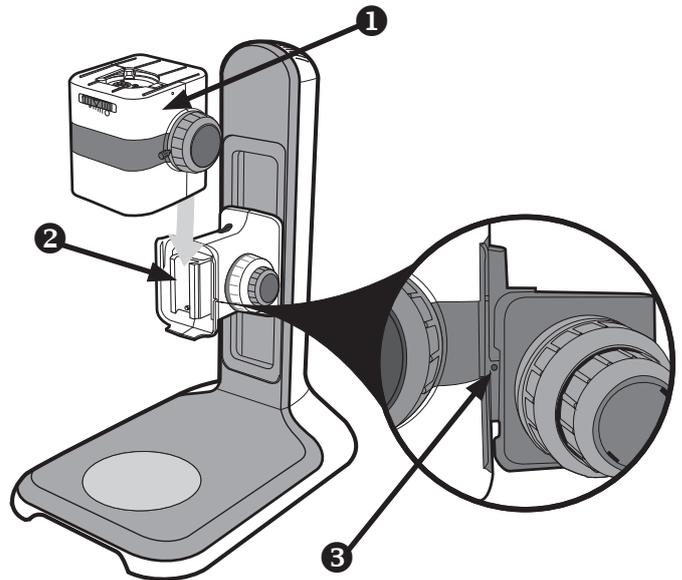
**!** If assembling the optional glare reducing filter, this needs to be placed between the diffuser and the surround.



## Zoom unit

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

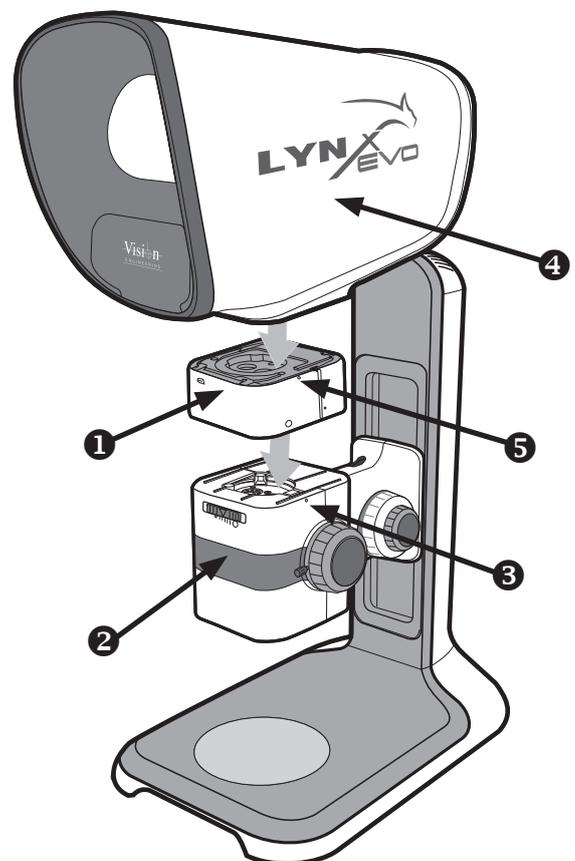
- ▶ Locate the zoom unit **1** on to the stand's dovetail interface **2**.
- ▶ Use the Allen key supplied to secure the assembly by tightening the grub screw **3**.



## Smart Cam digital camera (option)

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

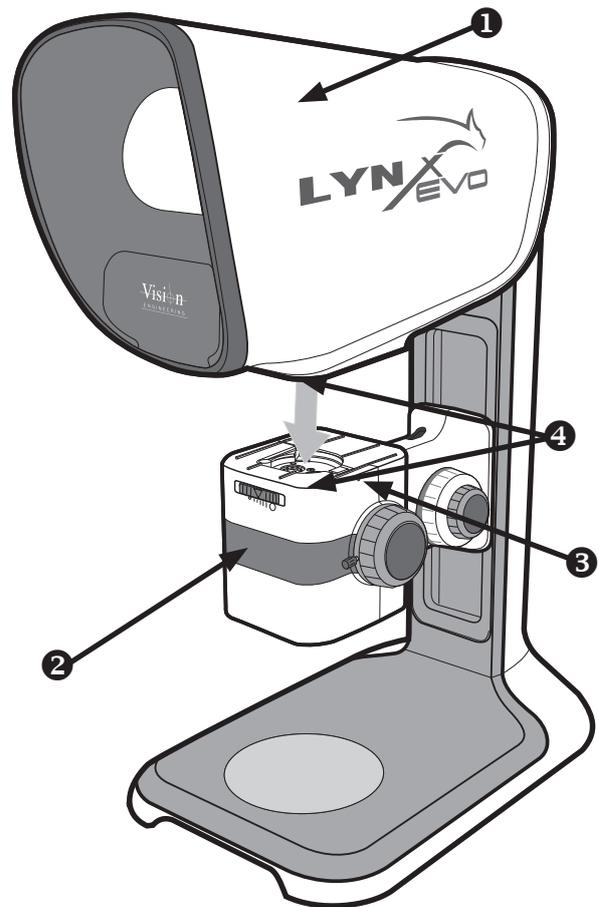
- ▶ Place the camera **1** on to the zoom unit **2** and tighten the zoom unit grub screw **3**.
- ▶ Place the head **4** on to the camera and secure it in place by tightening the camera grub screw **5**.
- ▶ See [page 10](#) for connecting the camera.



## Head

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

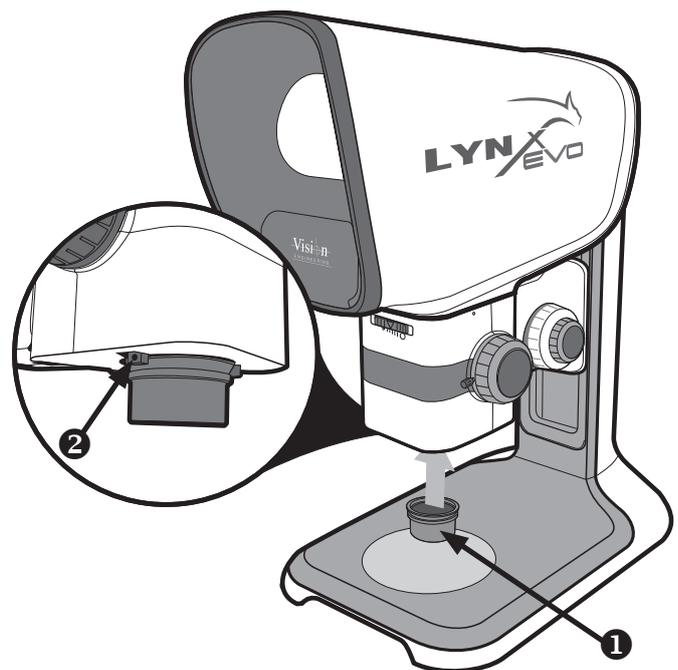
- ▶ Locate the head **1** on to the zoom unit **2**.
- ▶ Use the Allen key supplied to secure the assembly by tightening the grub screw **3**.
- ▶ Align edges **4** once assembled.
- ▶ See [page 8](#) for connecting the head.



## Objective lens

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

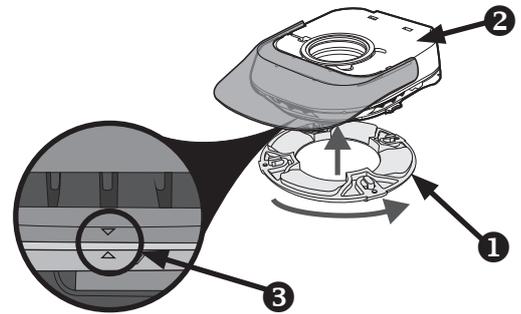
- ▶ While holding the objective lens **1** in position, use the Allen key supplied to secure the lens by tightening the grub screw **2**.



## Secondary lens

**!** Different objectives lenses have different working distances. The secondary lens focuses the illumination for the different working distances. The correct secondary lens is supplied with each objective. No secondary lens is required for the 1.0x objective.

- ▶ Locate the secondary lens **1** to the underneath of the ringlight **2** and lock the lens into position by twisting it as shown, ensuring the two alignment markers **3** line up.



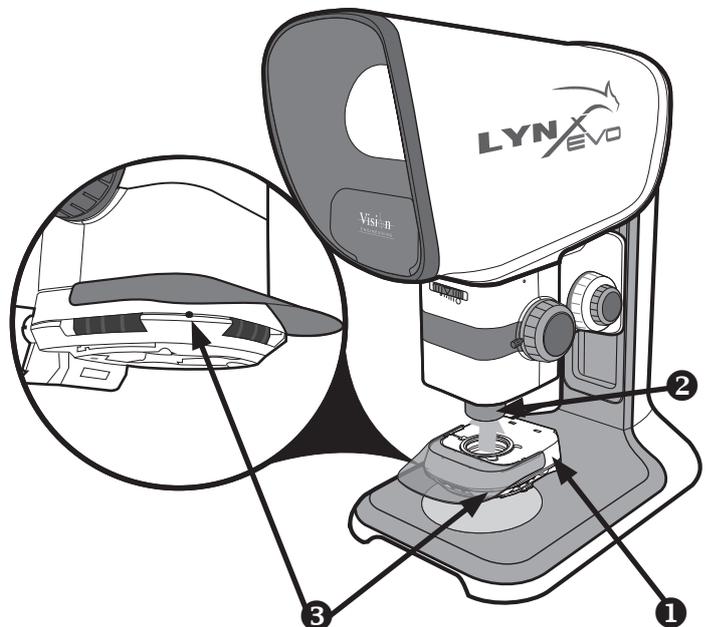
## Ringlight

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

- ▶ Hold the ringlight **1** in place over the objective lens **2** and use the Allen key supplied to secure it by tightening the two grub screws **3** (one on either side of the unit).

**!** An integral diffuser in the ringlight allows adjustment for different illumination requirements. The diffuser slides to cover, or not cover the LEDs. Diffused light can be useful for highly reflective samples. See [page 12](#) for diffuser operation.

- ▶ See [page 8](#) for connecting the ringlight.



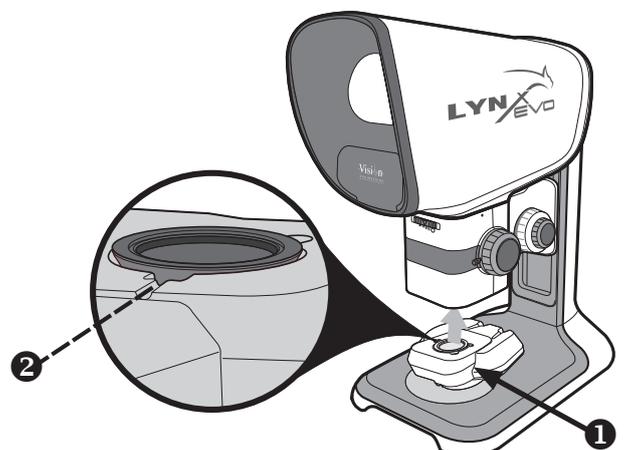
## 360° rotating viewer (option)

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

**!** The 360° rotating viewer is a highly precise and heavy accessory. Make sure it is sufficiently supported during assembly/disassembly to avoid damage or misalignment.

The 360° rotating viewer includes an integral ringlight and objective lens.

- ▶ While holding the viewer **1** in position below the zoom unit, use the Allen key supplied to secure the integral objective lens by tightening the grub screw **2**.
- ▶ See [page 9](#) for connecting the 360° rotating viewer.



## System connection

### Multi-axis stand

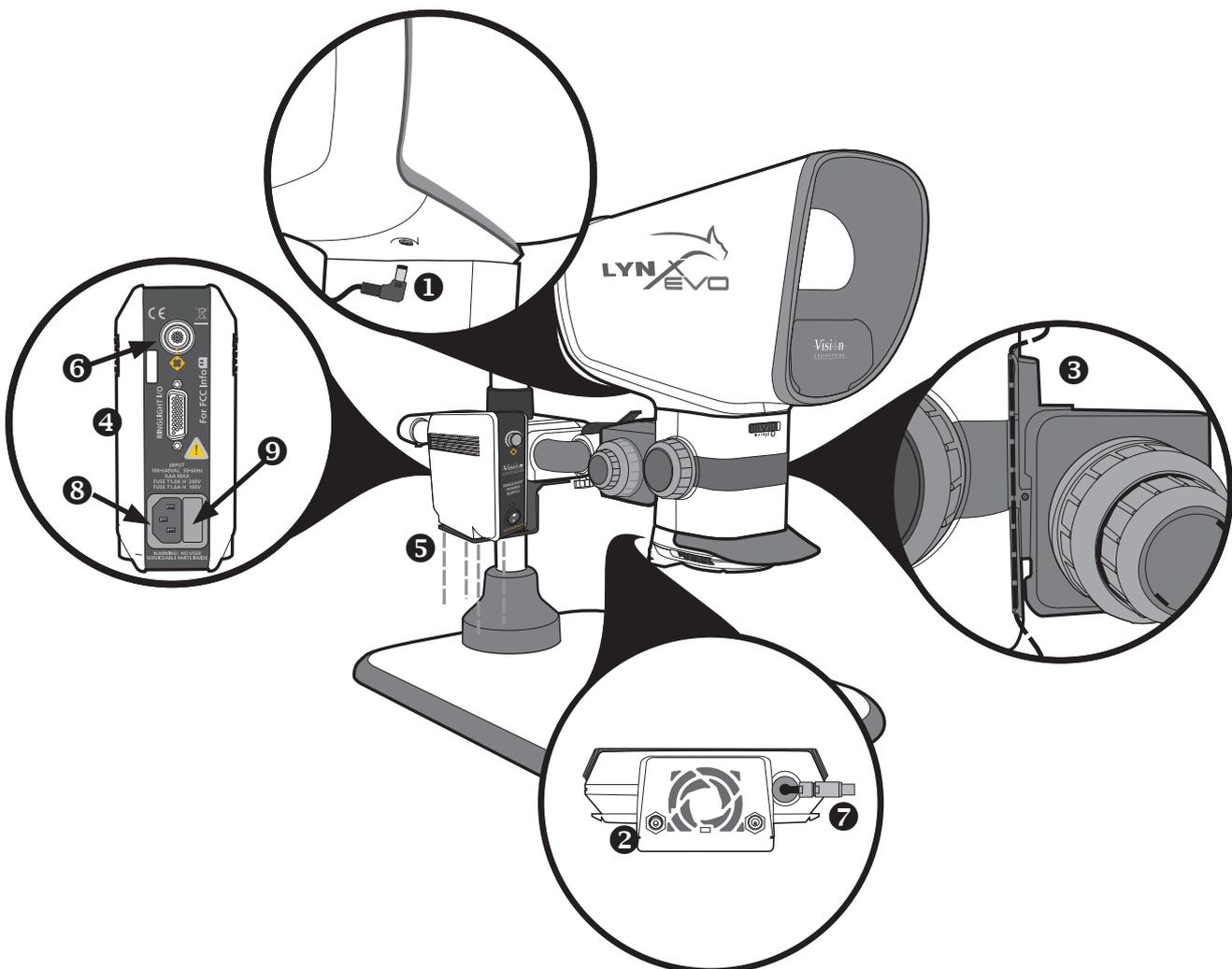
- ▶ Connect the cable between the head power socket ❶ and the ringlight power output socket ❷, ensuring the cable is tidied away as shown in ❸.
- ▶ Remove domed feet from the underside of the illuminator power supply unit (PSU) ❹ and secure it to its shelf using 4 screws supplied ❺ and connect the multi-way illuminator cable between the PSU control connector ❻ and the ringlight control input connector ❼.
- ▶ Making sure the fuse has been correctly fitted first, plug the mains power cable into the mains input connector ❽ on the illuminator PSU and to a suitable mains supply.

**!** The power supply units (PSU) has an integral power supply with the following specification:

Fuse rating: See printing on rear of PSU

**⚡** Ensure the correct fuse is fitted for your supply voltage.

The fuse is located in the mains connector ❽ on the rear of the PSU.



## Ergo stand

- ▶ Connect the cable between the head power socket ❶ and the ringlight power output socket ❷, ensuring the cable is tidied away as shown in ❸.
- ▶ Connect the multi-way illuminator cable between the PSU output connector ❹ and the ringlight control input connector ❺.
- ▶ Connect the output lead from the transmitted (substage) illuminator to the control connector ❻ on the illuminator PSU.
- ▶ Plug the mains power cable into the mains input connector ❼ on the illuminator PSU and to a suitable mains supply.



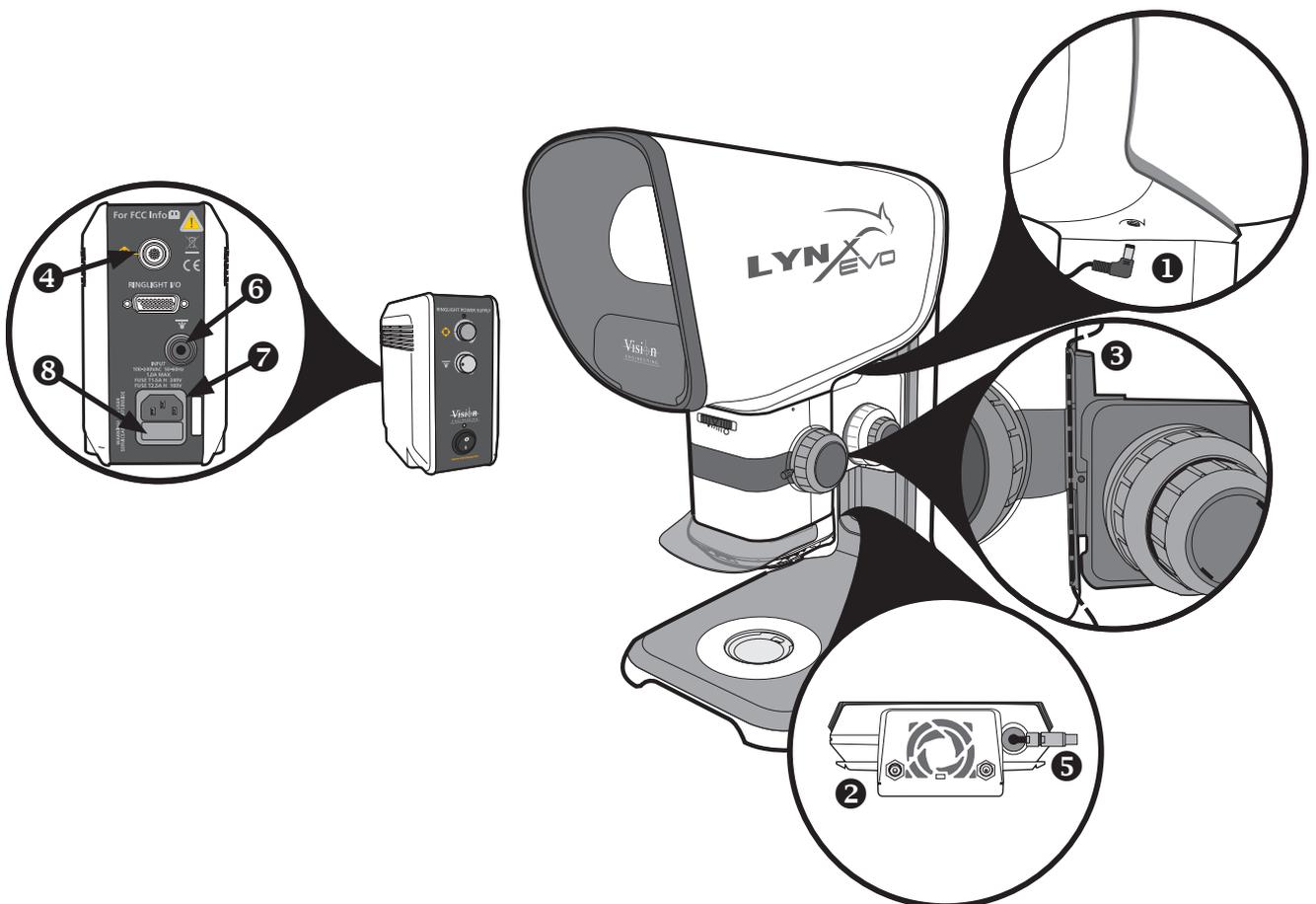
The power supply units (PSU) has an integral power supply with the following specification:

Fuse rating: See printing on rear of PSU



Ensure the correct fuse is fitted for your supply voltage.

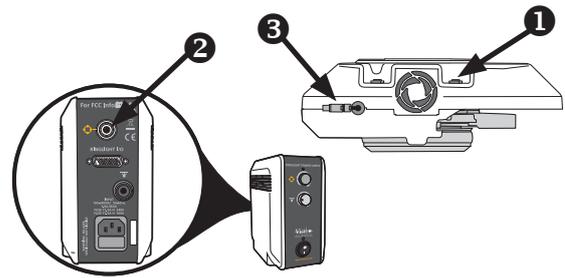
The fuse is located in the mains connector ❸ on the rear of the PSU



# ASSEMBLY

## Connecting the 360° rotating viewer

- ▶ Connect the cable between the head power socket (see above) and the rotating viewer power output socket **1**, ensuring the cable is tidied away as shown above.
- ▶ Connect the multi-way illuminator cable between the PSU output connector **2** and the rotating viewer control input connector **3**.



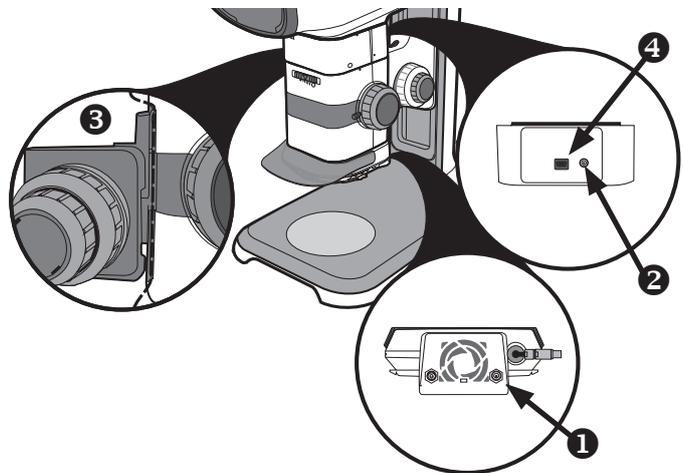
## Smart Cam digital camera

**!** Although the Ergo stand is illustrated, this procedure is identical for all stands.

- ▶ Install the supplied uEye software, as per the 'Smart Cam software user guide' (contained on the supplied USB stick).

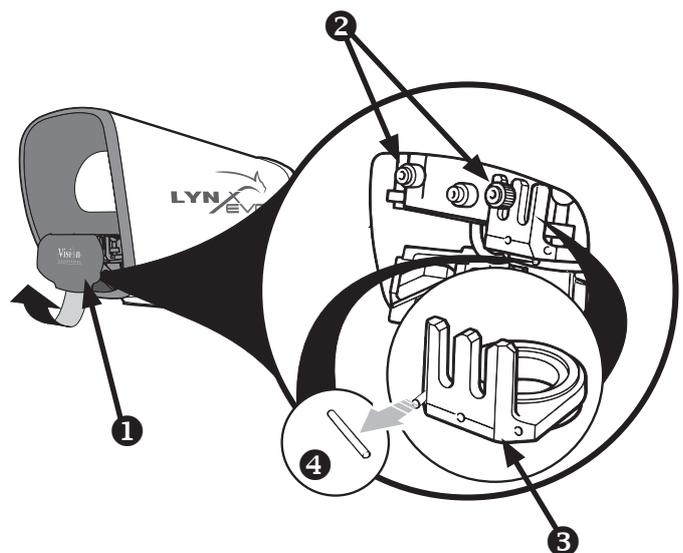
**!** Install the uEye software before connecting Smart Cam to the PC.

- ▶ After installing the uEye software, connect the cable from the power out connector **1** on the rear of the ringlight to the power in connector **2** on the rear of the camera using the cable route **3**.
- ▶ Connect the mini USB cable from the video output connector **4** on the rear of the camera to a suitable USB input socket on the system PC.



## Reticle

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

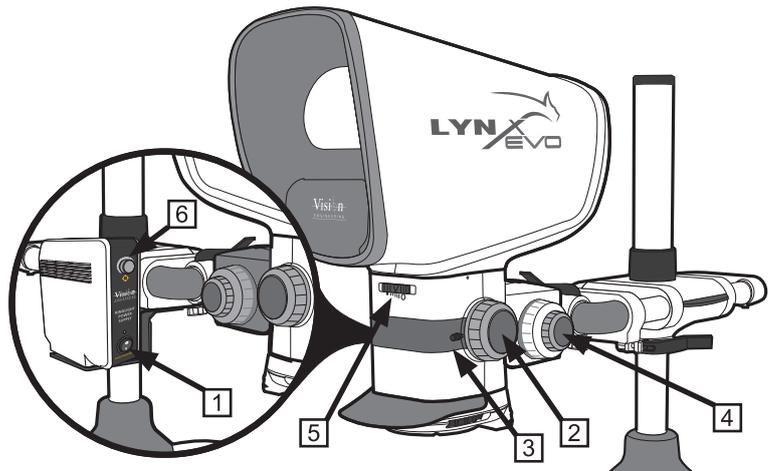


## Operator controls

### Multi-axis stand

#### Functional controls

- 1 On/off switch
- 2 Zoom control
- 3 Index lock
- 4 Focus control
- 5 Iris control
- 6 Ringlight illumination control



#### Positional controls

- 1 In/out movement  
Taking the weight of the head, zoom, etc., lift the locking lever and pull/push the multi-axis boom arm as required.
- 2 Up/down - left/right movement  
Release the locking lever as shown and move the boom arm up or down and/or left or right as required.



**When lifting and lowering the unit, hold the multi-axis stand arm and not the Lynx EVO head or zoom units. Lifting or lowering by the head may damage the focus assembly.**

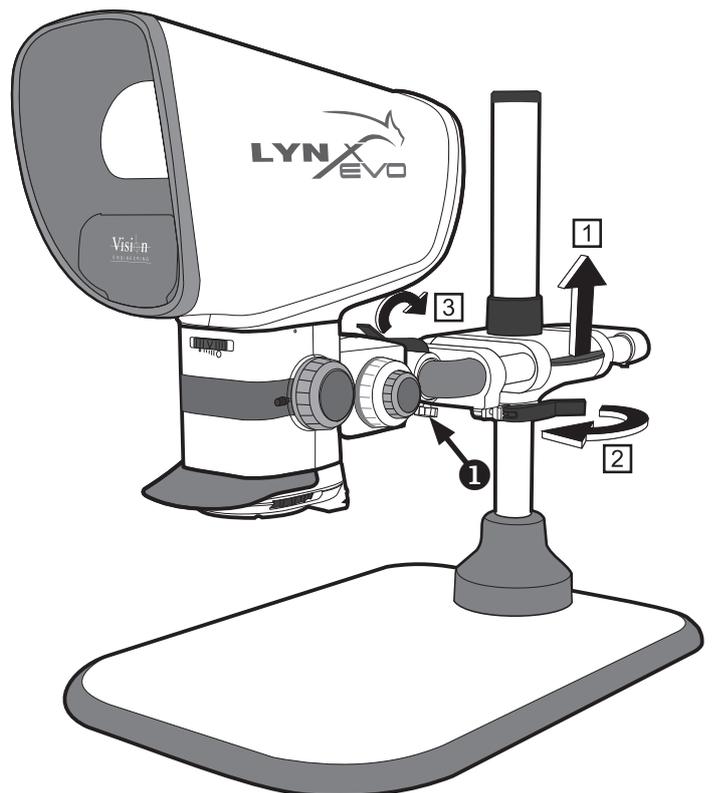
- 3 Tilt movement  
Release the locking lever as shown and, taking the weight of the head assembly, use the tilt control knob 1 to tilt the head to maximum of 25° up or down as required.

#### Realigning the tilt of the head to vertical

To ensure the head has been tilted back to the original vertical position, use a squared edge as a reference and check from the side of the unit for alignment to vertical.



**The tilt adjustment should not be necessary in normal use.**

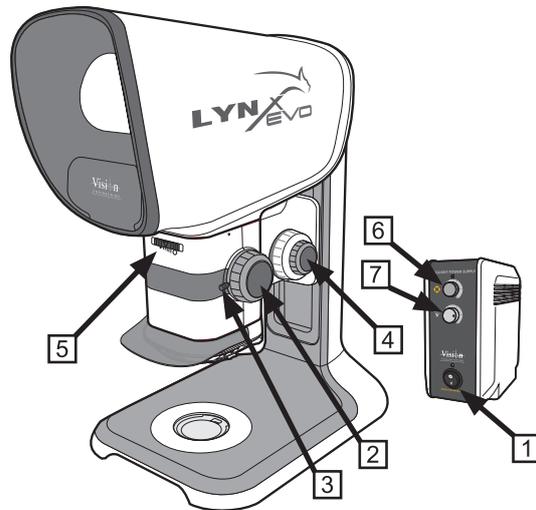


# OPERATION

## Ergo stand

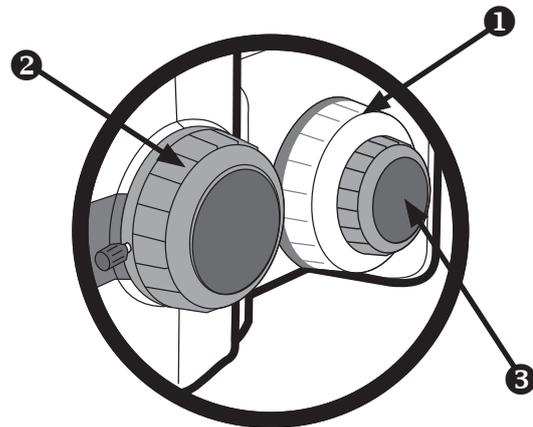
### Functional controls

- 1 On/off switch
- 2 Zoom control
- 3 Index lock
- 4 Focus control
- 5 Iris control
- 6 Ringlight illumination control
- 7 Transmitted (substage) illumination control (option)



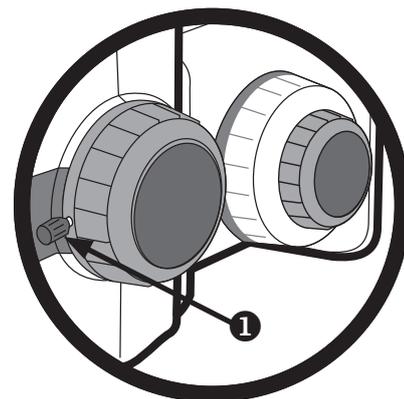
## Getting started

- ▶ Turn on the system's power.
- ▶ Place the subject to be viewed in the centre of the viewing platform.
- ▶ Use the coarse focus control 1 to the approximate working distance for the objective lens fitted (see the **Magnification table** below).
- ▶ Turn the zoom control 2 to maximum magnification and adjust the fine focus control 3 to obtain a clear, sharp image of the subject. The focus will now be maintained throughout the zoom range.
- ▶ Zoom out to the desired magnification and adjust the illumination to the required level.



## Setting the zoom index position

- ▶ Set the required magnification (see above).
- ▶ Loosen the index lever 1 and move it until it clicks into position. Re-tighten the index lever.
- ▶ The set magnification can now be selected when required.

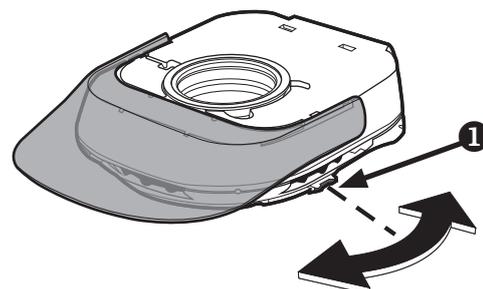


## Using the ringlight

- ▶ Ensure the correct secondary lens is fitted on the objective lens (see [page 7](#)).
- ▶ Adjust the illumination to the required level.

**!** An integral diffuser in the ringlight allows adjustment for different illumination requirements.

- ▶ Use the slider 1 to diffuse the LED illumination as much or as little as required. Diffused light can be useful when viewing highly reflective samples.

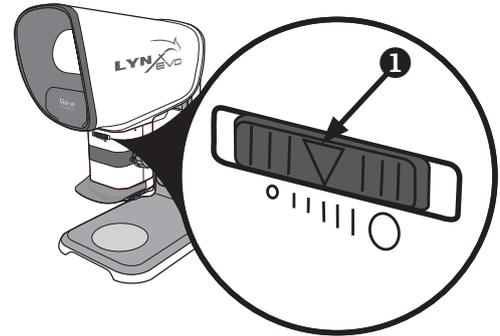


## Adjusting the iris

The iris diaphragm controls the amount of light passing through the microscope.

- ▶ Moving the iris control **1** to the left decreases the aperture, moving it to the right increases the aperture.

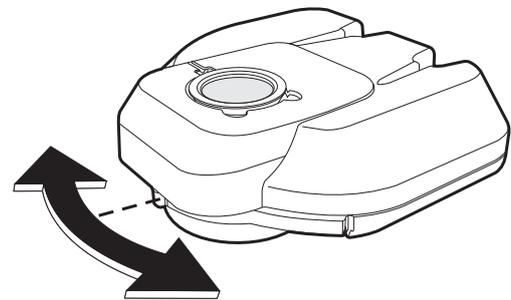
**!** Reducing the aperture increases the depth of field (focus) of the image. The reduced aperture also reduced the brightness of the image.



## Using the 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° rotating viewer can be switched between direct and 360° rotating view by swivelling the viewer into the designed position.
- ▶ Once in position, the viewer can be manually rotated by turning the knurled ring on the viewer to provide a rotating view of the subject.



### Operating techniques

When properly set up, and when viewing in the 360° rotating 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 360° 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 focused area. Do not adjust the focus knob on the zoom body.

The 360° rotating viewer is now set up and ready for use.

### Optical data

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				
6.8x (15x*) – 68x	56.5mm	12.0mm*	2.5mm	-

## Operating the Smart Cam

For operating instructions, please refer to the Smart Cam user guide supplied with the unit.

## Routine maintenance

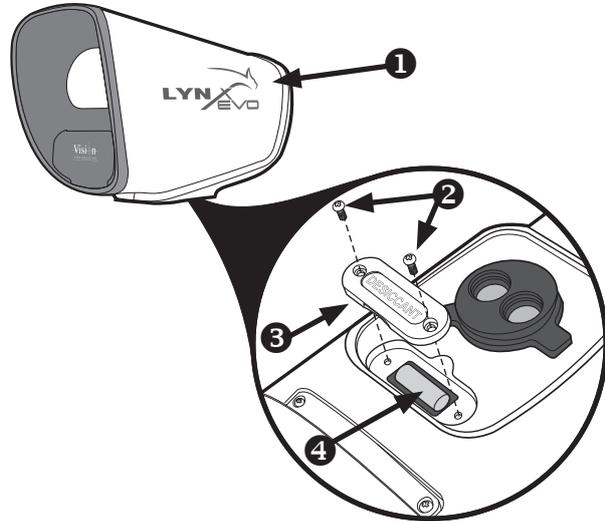
### Desiccant replacement

In 'normal' environmental conditions the desiccant should be checked annually. In humid conditions, it is recommended it is checked every 3 months.

- ▶ Remove the head **1** from the system.
- ▶ Carefully turn the head upside down, remove the securing screws **2** and then the desiccant cover **3**.
- ▶ Check the colour of the desiccant **4**:

Blue = good  
Pink = replace

Replacement part number = HDW-1029



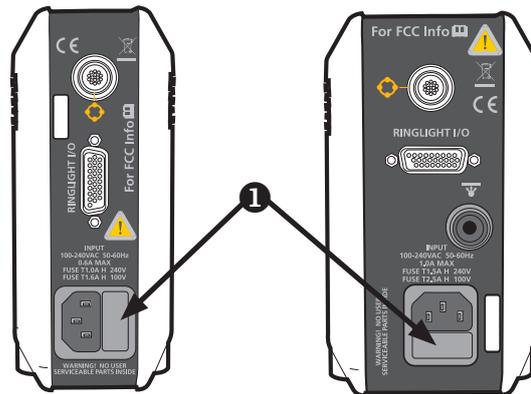
### Fuse replacement

**!** The power supply units (PSU) has an integral power supply with the following specification:

Fuse rating: See printing on rear of PSU

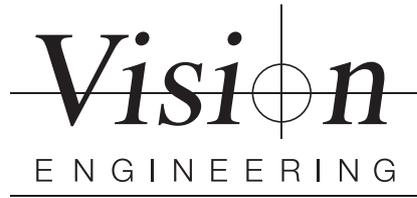
**⚡** Ensure the correct fuse is fitted for your supply voltage.

The fuses are located in the mains connectors **1** on the rear of the PSUs.









## **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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