

User Guide LED Ringlight for the

Lynx Stereo Dynascopic Microscope

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

The LED ringlight surface illuminator is an accessory for the Lynx stereo dynascopic microscope. The Lynx utilises Vision Engineering's patented Dynascope technology, offering the user advanced ergonomics by removing the need for restrictive eyepieces.

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).

Compliance statement

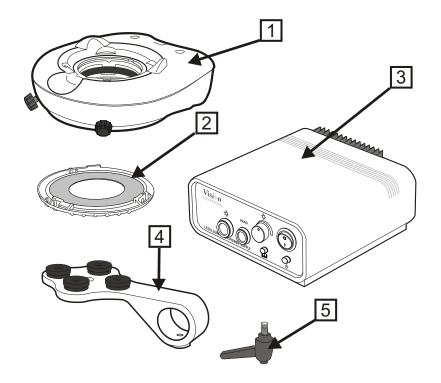
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has also been tested and found to comply with the requirements of EN61326 (Class A) and IEC60950.

PACKING CONTENTS LED Ringlight	1
ASSEMBLY	
LED ringlight attachment	2
Converging lens	2
Control box support arm (boom mount only)	2
Cable connection	3
Attaching the LED ringlight cable	3
Zoom/focus assembly power cable	3
Mains connection	3
OPERATION	
Control box	4
Icons	4
Controls	4
LED illuminator specification	4

LED Ringlight

- 1 LED ringlight
- 2 Converging lens (optional)
- 3 Control box / power supply
- Control box support arm (optional boom mount only)
- 5 Locking handle
- 6 Mains lead (not shown)
- Ringlight cable (not shown)



LED ringlight attachment

Place the LED ringlight ① into position over the objective lens ② and tighten the securing screws ③.

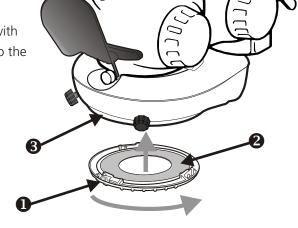


Converging lens

The objective lens being used determines the required ringlight and converging lens combination (see table below).

▶ Align the marker arrow **①** on the converging lens **②** with the marker **③** on the LED ringlight and twist the lens to the right until it clicks into place.

Objective	0.5	0.7	1.0	1.5	2.0
Ringlight	LWD Red	LWD Red	SWD Blue	SWD Blue	SWD Blue
Red converging lens	•	_	_	_	_
Blue converging lens	_	_	_	•	

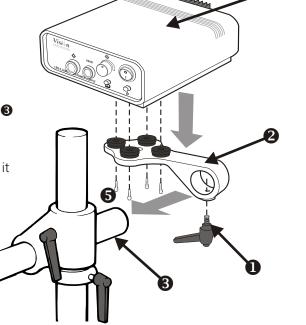


Control box support arm (boom mount only)

▶ Locate the locking handle **1** into the support arm **2**.

Slide the control box support arm on to the horizontal bar 3 and secure it with the locking handle.

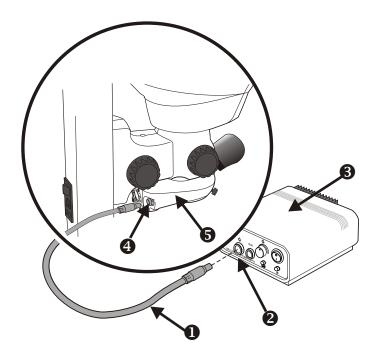
▶ Place the control box **④** on to the support arm and secure it with the 4 screws **⑤** (supplied).



Cable connection

Attaching the LED ringlight cable

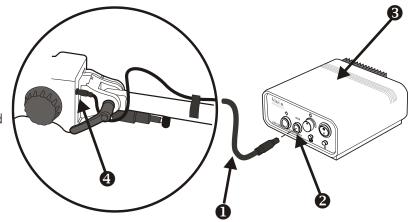
- ► Connect the LED ringlight cable **1** to the illuminator socket **2** on the front of the control box **3**.
- ► Connect the other end of the cable to the connector **4** on the rear of the LED ringlight **5**.



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**.



Mains connection

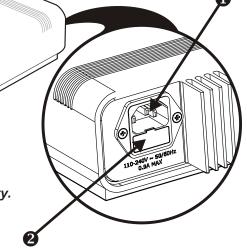
The mains input connector is located on the rear of the control box and is comprised of the input socket **1**, and fuse **2**.

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.



Control box

Icons

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

On/Off switch

b 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.



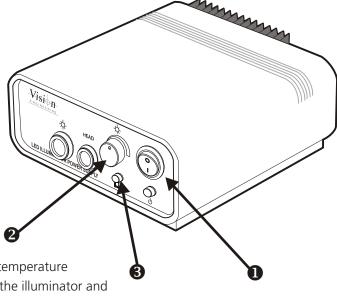
The LED illuminator unit has an integral power supply with the following specification:

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

Fuse rating: 110v 1.0A anti-surge type T1ALH250V

230v 0.5A anti-surge type T1ALH250V

The fuse is located in the IEC mains connector on the rear of the control box (see page 3).





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.

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.

Vision Engineering Ltd.

(Manufacturing)

Send Road, Send, Woking, Surrey, GU23 7ER, England +44 (0) 1483 248300 +44 (0) 1483 223297 Email: generalinfo@visioneng.com

Vision Engineering Ltd.

(Commercial)

Monument House, Monument Way West, Woking, Surrey, GU21 5EN, England Tel: +44 (0) 1483 248300 +44 (0) 1483 248301 Email: generalinfo@visioneng.com

Vision Engineering Inc.

(Manufacturing & Commercial) 570 Danbury Road, New Milford, CT 06776 USA

+1 (860) 355 3776 Tel: +1 (860) 355 0712 Fax: Email: info@visioneng.com

Vision Engineering Inc.

(Commercial West Coast USA)

745 West Taft Avenue, Orange, CA 92865 USA +1 (714) 974 6966 Tel: +1 (714) 974 7266 Fax:

Email: info@visioneng.com

+49 (0) 8141 40167-55 Fax: Email: info@visioneng.de

D-82275, Emmering, Germany Tel: +49 (0) 8141 40167-0

Vision Engineering Ltd.

Anton-Pendele-Str. 3,

(Central Europe)

Nippon Vision Engineering (Japan)

272-2 Saedo-cho, Tsuduki-ku, Yokohama-shi, 224-0054, Japan +81 (0) 45 935 1117 +81 (0) 45 935 1177 Email: info@visioneng.jp

Vision Engineering Ltd (China)

11J, International Ocean Building, 720 Pudong Avenue, Shanghai, 200120, P.R. China

Tel: +86 (0) 21 5036 7556 Fax: +86 (0) 21 5036 7559 Email: info@visioneng.com.cn Vision Engineering Ltd.

(France)

1 Rue de Terre Neuve, ZA Courtaboeuf, 91967 Les Ulis Cedex, France

+33 (0) 164 46 90 82 Tel: +33 (0) 164 46 31 54 Email: info@visioneng.fr

Vision Engineering Ltd Italia (Italy)

Via Cesare Cantù, 9

20092 Cinisello Balsamo MI, Italy +39 02 6129 3518 +39 02 6129 3526 Email: info@visioneng.it

Vision Engineering

(India)

Tel: +91 (022) 2613 0699 +91 (022) 2610 3845 Fax: Email: info@visioneng.co.in

Distributor

4055 R1.1/05/08

=

Visit our multi-lingual website:

www.visioneng.com