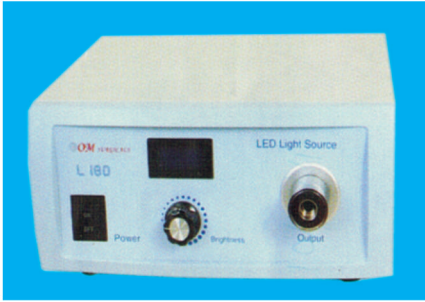




Western Surgical®



LED LIGHT SOURCE L-180

USER MANUAL



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Due to constant upgradation design, price and features are subject to change without prior notice.



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1. Important User Notes

Read the manual carefully and become familiar with the operation and function of the device and the accessories before use during surgical procedures. Non-observance of the instructions listed in this manual can lead.

- To life-threatening injuries of the patient,
- To severe injuries of the surgical team, nursing staff or service personnel, or
- To damage or malfunction of device and/ or accessories.

The manufacturer reserves the right to modify the appearance, graphics and technical data of the supplied product through continued product development.

The words WARNING, CAUTION, and NOTE carry special meanings, sections marked with these words must be read especially attentively.

WARNING!

The safety and/ or health of the patient, user, or a third party are at risk. Comply with this warning to avoid injury to the patient, user, or third parties.

CAUTION!

These paragraphs include information provided to the operator concerning the intended and proper use of the device or accessories.

NOTE!

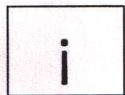
Here you will read information about the maintenance of the device or the accessories.



WARNING



CAUTION



NOTE

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2. Safety Information

- The manufacture is not liable for direct or consequential damage and the warranty is null and void if:
 - The device and/ or the accessories are improperly used, prepared, or maintained,
 - The instructions and rules in are not adhered to,
 - Non-authorized persons open the device,
- Only an authorized service technician may perform repairs, adjustments, or alterations on the device or accessories and use the service menu.
- The service and maintenance of the device and its accessories has to be carried out as per instructions to ensure the safe operation of the device.
- The manufacturer has the right to reject contaminated products for repair.

2.1 Hazards

WARNING!

- **Check all factory settings**
- **Use original accessories**
- **Device is not explosion-proof**
- **Risk of electrical shock**
- **To check the device need a professional technician**
- **Sterile mediums and accessories**
- **If a device defect is suspected or confirmed, do not use it.**
- **Never use the device if it has obvious defects.**
- **Replace the fuse only with a fuse of the same type and rating**
- **Protect device from moisture**
- **Cleaning the device. Do not sterilize the device**
- **To avoid the risk of electrical shock, only use this device when connected to a properly grounded power supply network**

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3. Device Purpose

3.1 Intended Use

1. The device is a light source designed for use in conjunction with the fiber optic cable for minimally invasion surgical or diagnostic procedures.
2. The light source is designed to be used with endoscopes during minimally invasive surgical procedures and serves to illuminate the surgical field inside of body cavities in order to enable the transmission of an image from the cavity to an endoscopic camera using an endoscopic lens system.
3. Do not use the device if endoscopic surgery is contraindicated.
4. The light source contains a powerful LED light.

3.2 Device – inherent Dangers and information

WARNING!

The device is disconnected from the mains power supply if the power plug is unplugged from the shockproof safety socket.

WARNING!

Danger of burns Contact with the open end of an endoscope or a light cable connected to the light source can result in burns due to the high energy of the emitted light. Avoid long-lasting, motionless contact between the end of the endoscope and the patient's tissue during endoscopic surgery. To avoid danger of burns, do not leave an active light-light cable, with or without a connected endoscope, on or near the patient.

WARNING!

Fire Hazard Never place the endoscope or the open end of a connected optical fiber cable near flammable materials such as textiles (curtains) or near cotton swabs or pads that have been soaked with flammable fluids (e.g. disinfectants). The heat generated by the intense light emission can ignite these materials.

WARNING!

Hot surface of the optical fiber cable plug. The temperature of the metallic tip of the optical fiber cable plug on the light entrance side may exceed 41 °C when removed after continuous use. Avoid contact with the metallic part of the optical fiber cable plug and always hold the plug by its plastic handle. Or wait until the device has cooled down before removing the plug.

CAUTION!

Mobile telephones the interference caused by electromagnetic waves (e.g. mobile telephones) affecting electronic devices is well known. Therefore we advise the users to prevent the occurrence of these risks.

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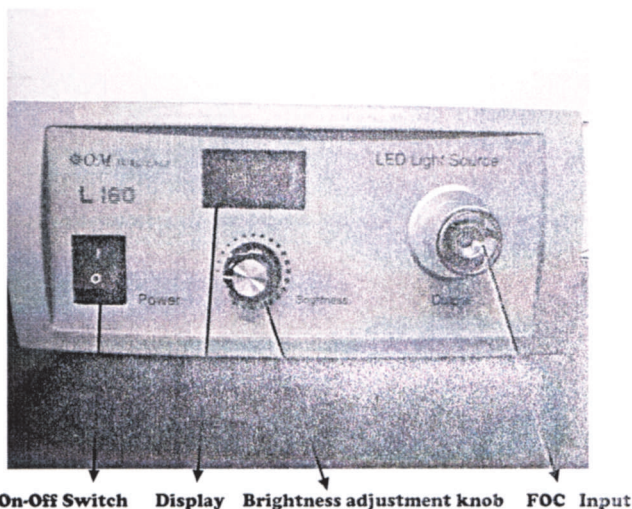
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4. Initial Device Start up

Always check all parts and accessories of the device immediately after receiving the shipment. The manufacturer considers only replacement claims that have been immediately submitted or reported to a sales representative or an authorized service company.

4.1 Device Front

Familiarize yourself with the control and display elements of the light source.



WARNING!

The device is only completely disconnected from the mains power supply if the power plug is unplugged from the shockproof safety socket.

4.2 Device Rear

Familiarize yourself with the connection elements at the rear of the light source.

CAUTION!

The device type plate is located on the bottom panel of the device.

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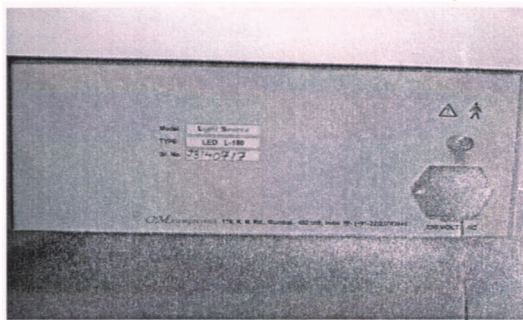
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4.2 Elements at device rear



Mains Power

4.3 Preparing the Device

- It is the responsibility of the operator to ensure the device is safe and functions as intended when being used.
- Place the device on a level surface in a dry environment.
- If explosive narcotic gases are used, the device may not be operated in the depicted danger zone.
- When using the light source, the patient has to be continuously monitored according to medical care guidelines. If required, establish a sterile environment.

- **4.4 Connecting the Equipment**

4.4.1 The optical Fiber Cable

CAUTION!

- Use only non-conductive/insulating optical fiber cables (BF). The BF classification of the light source is based on the insulating property of the applied part.
- Insert the optical fiber cable centred and straight up to the stop inside of the socket. Only when the light turns on is the optical fiber inserted properly. To remove the optical fiber cable, turn the release lever clockwise until it stops and pull out the optical fiber cable. Always grasp the cable plug and not the cable itself. Never pull on the cable itself to unplug it.

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4.4.2 Connecting the Endoscope

Connect the optical fiber cable with the endoscope. Comply with the instructions and notes of the manufacturer of the endoscope.

4.4.3 Potential Equalization and Mains Power

Integrate the device into the potential equalization system as specified by local safety rules and regulations.

- **Use the power cable provided.**

Grounding contact the power connection must be equipped with a grounding contact. Use the original power cable to plug into the wall socket on one side and the rear device jack on the other.

The grounded, shockproof safety wall socket should be near the device and with- in easy reach. Disconnect the device from the mains power supply (pull cable out off the grounded safety wall socket) if the device is not being used for several days or an extended period. The device is ready for use as soon as all connections are established and all cables have been plugged in.

5. Operating the Device

5.1 Switch Device ON

Press the power key to switch the device on. The device is turned on when the power button is pressed. The brightness is adjusted by the knob.

The brightness is then displayed on the display board

CAUTION!

To ensure safety, the light remains switched off as long as an optical fiber cable is not connected.

5.2 Switch Device Off

Press the power key to switch the device off.

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6. Care and Maintenance

6.1 Replacing Fuse

WARNING!

Use only the specified type of fuse with the specified rating!

- Disconnect the power cable from the mains socket Layout/fastening. Fuses,
- Use a suitable tool (e.g. screwdriver) to unscrew the fastener of the mains fuse holder.
- Remove the mains fuse holder. Replace fuses. Always use the specified fuse types with the specified ratings.
- Insert the fuse holder until it can be heard snapping into place.
- Reattach the power cable.
- Test the device to make sure it is functioning properly.

7. Error Symptoms

| Error Symptoms | Remedy |
|-------------------|--|
| 1. No Function | Check power connection |
| 2. No Light | Check mains fuses and replace if necessary |
| | |
| 3. Light too dark | Check Optical Fiber Cable |

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8.Scope of Supply

| | |
|--------------------------|------------------------------|
| Complete unit consist of | Alpha LED Light source L-180 |
| Light source unit | L-180 |
| Mains cord | Mc-03 |
| Fuse | 3A |
| User Manual | UMLD-180 |

9. Technical Data

| Lamp | LED |
|---------------------|-------------------------------------|
| Colour Temperature | 6000°k |
| Standard connection | Karlstorz type,others on request |
| Lumen Maintenance | 90% after 1000hrs |
| Line Voltage | 90 – 260 vac |
| Weight of L-180 | 4 kg |
| Ambient temperature | + 10°C+/-40°C in operating mode |
| Cooling Method | Forced Air cooling side ventilation |
| Classification | Class IBF |

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> TECHNICAL SERVICE

Unit including accessories should be serviced every year by:

OM SURGICALS

Unit No.65, Unique industries Estate,
Dr. R. P. Road, Opp. Jawahar Talkies,
Mulund (W), Mumbai-400 080.
OFF : +91-22-2567 0626

Other service addresses can be obtained from the address indicated above.

| | |
|---------------------------------------|---------------------|
| Date of Installation | Installed By |
| Model No. | Serial No. |
| Warranty Period | |
| Name of Doctor & Address : | |
| | |
| | |

Customer Sign. With Stamps

Marketed By: Western Surgical
Sign. With Stamps

No Claim Warranty :

- 1) Any Defect Throughout Power Supply
- 2) Any Physical Damage

3) Under Warranty Standby Unit Not Provide

4) Under Warranty When Company Send Parts or Machine we Imidiat send to Buyer.

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OUR OTHER PRODUCTS RANGE



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