

## Operation Instruction

### Digital Zoom Microscope **Di-Li 1001**



Thank you for choosing to buy our product Di-Li Digital-Zoom-Microscope. We wish you much pleasure with your new microscope. With these operating instructions you can get to know all functions of the microscope.

The high-resolution 8 inch monitor makes it easy to work with the microscope.

Please read these operating instructions carefully before using it.

- As the microscope is a kind of exactitude instrument, always handle carefully avoiding abrupt movement or impact during transportation or operation.
- Avoid exposure to direct sunlight, high temperature and humidity, dust and vibration.
- Avoid leaving dirt or fingerprints on the lens surfaces, lest should reduce the definition of image.

## **Cleaning and Storage**

- Clean all glass components by wiping gently with gauze or cotton. To remove fingerprints or oil smudges, wipe slightly with gauze moistened or cotton with a mixture of aether (70%) and alcohol (30%).
- Do not use organic solvent to wipe the surface of other components. Should be cleaned with a neutral detergent.
- Never attempt to disassemble the instrument, so that reduce the performance of instrument.
- When not in use, be sure to cover the instrument with the dust cover, and store in an area which is dry and hasn't dust.

## **1. Preparing**

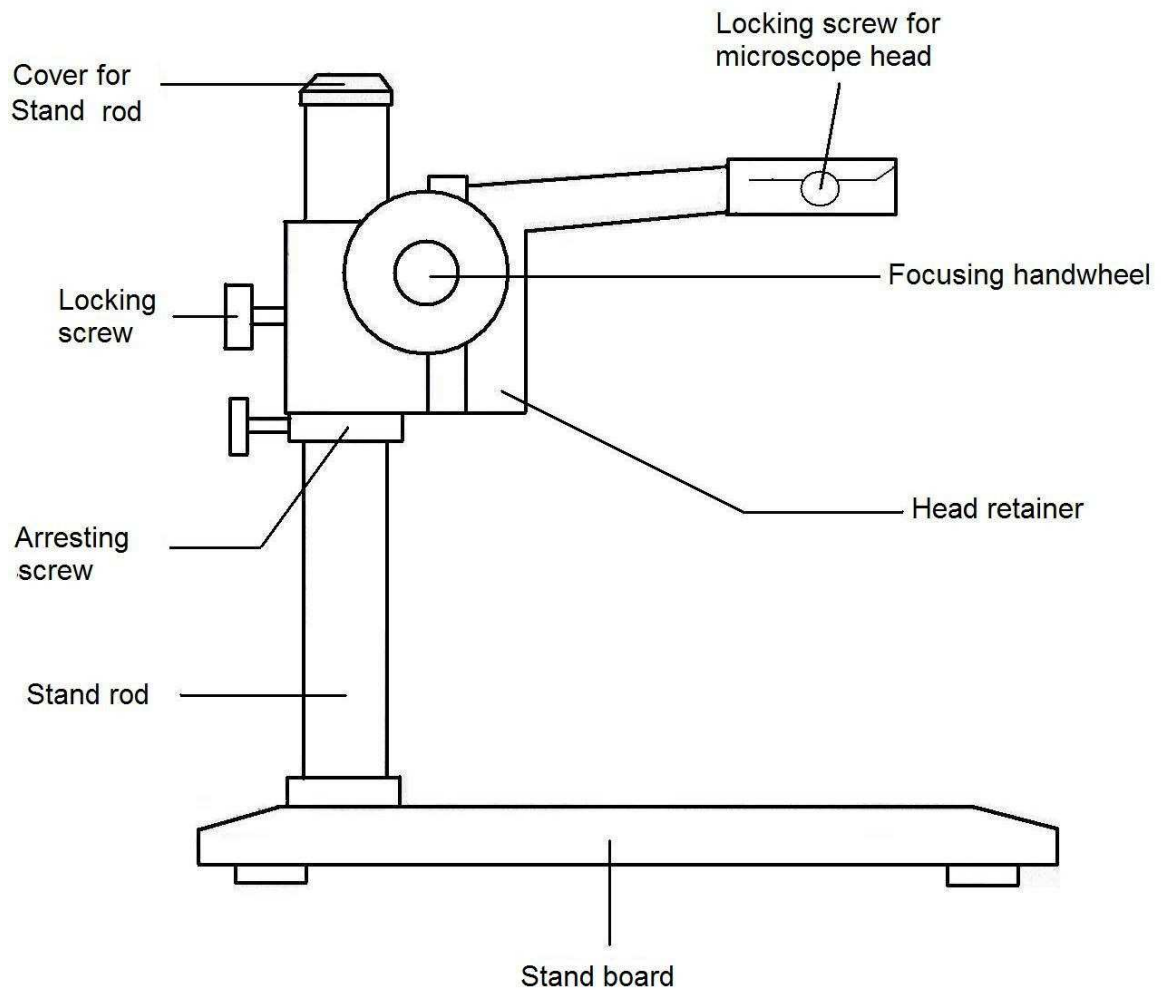
Open the case and unpack carefully the component parts.

### **Instruments list:**

1. Microscope case
2. Monitor
3. Microscope head
4. Head retainer
5. Stand board
6. Stand rod
7. Arresting screw
8. LED illuminator
9. Power supply for camera and monitor
10. Wall power supply for LED illuminator
11. Cable set for second monitor, TV, or Video-Grabber

## **2. Mounting**

- Select a workbench, which should be so high for microscoping that you can sit comfortably to it and look into the instrument. The microscope itself must be placed on a firm and slid surface. Avoid direct sun exposure on the preparation.
- Screw the stand rod into the stand board
- Put the arresting screw on the stand rod and fix it. The distance to the stand board ca. 70mm (under edge arresting screw)
- Put the head retainer on the stand rod.
- Insert the microscope head into the head retainer, and fix it with the locking screw (knurled silver screw).
- Install the LED ring illuminator. You can adjust the lightness of the LED ring illuminator by the LED dimmer.



### 3. Installing the monitor

Loosen the toggle screw, screw the monitor tightly.

### 4. Connecting

- Connect the gold phono plug to the yellow connecting socket „AV IN/V“ on the monitor.
- Connect the DC power angle plug to the DC power input socket „DC 12V“ on the monitor.
- Connect the included adapter for “camera and monitor” to a wall outlet and then the DC output power supply to the “12 Volt” power connector at camera box to supply the monitor and the camera with power.
- Connect the wall power supply connector to a wall outlet and then the DC output power supply to the LED ring illuminator.

## 5. Operation

- Turn on the LED ring illuminator.  
The LED ring illuminator is assembled with an Akku.
- Minimize 0.7x the magnification by turning the zoom control ring, **working distance ca. 80mm.**
- Actuate the power switch, the red LED will light up.  
You can see the microscope picture on the monitor. If there is no picture, make sure that the cable is connected correctly.
- Make the image clear by turning the focusing handwheel. If necessary adjust the position of the head retainer and fix the arresting screw.

## 7. Technical specifications

- Optical magnification: optical zoom 10x - 70x,
- Stand: 270mm x 240 mm
- Monitor: high-resolution 8 Inch
- Output for a second monitor, TV, or Video-Grabber
- CCD: high-resolution 1/3 Inch, 625 lines
- Fokus: handwheel on both sides
- Stand: full-metal, the length of the stand rod 300 mm,
- Light Source: LED ring illuminator (48 LED), illuminating, adjustable.

## 8. Accessories

- **XY Mechanical Stage Di-Li 1050**



It is useful for dissection, circuit board inspection, and other micro viewing situations where controlled and defined movement is required.

- Smooth motion for precise specimen placement
- Made of anodized black metal and glass components
- Dimensions: 180mm x 155mm
- Coaxial dial system for easy and accurate operation
- Brushed steel stage clips

- **Illuminator, Ring Style Di-Li 1065**



The Di-Li 1065 fluorescent light ring provides shadow-free cold illumination for 1000 hours with long life bulbs. Our light system is designed to fit most brands of microscopes

Long knurled metal thumbscrews provide easy, simple and versatile mounting which meeting the need for adapters in most cases, especially for electronics, metal processing and other reflective parts.

- **USB-Video-Audio-Grabber Di-Li 1081**



**USB video audio grabber,**  
for digitising analog signal sources.

- Ideally suited for the connection of microscope, camcorders, cameras and other video equipment to a notebook or PC with high-speed USB 2.0 interface
- Including extensive software package: driver software, recording software and grabber

software, DVD solution software, digital converter, VideoWorks6 in German, English, French, Spanish, Italian.

- microscope software
- Numerous video post-processing facilities, also including various effects
- Snap shot function (JPG)
- Direct recording of a DVD, VCD or SVCD
- Supported formats: PAL, NTSC and SECAM
- Encodes videos in MPEG-1, MPEG-2 and MPEG-4
- Frame rate up to 25 fps (720x576 pixels, PAL), up to 30 fps (720x480 pixels, NTSC), MPEG-4 with 320x240 pixels
- Power supply via USB interface
- 1 x stereo RCA for audio (for Windows XP, Windows Vista, Windows 7 via USB), 1 x SVHS, and 1 x RCA for video