

Operating instructions for *LEDental Power Light*

1. Security measures

Read these safety precautions carefully before use and operate the unit correctly.

These instruction symbols enable you to use this product safely and avoid danger and harm to yourself and others. They are classified according to the extent and severity of the hazard or harm. All instructions and symbols concern safety and must be observed.



This sign warns of an extremely dangerous situation where failure to observe the danger notice will result in death or serious irreversible injury.



This sign warns of a dangerous situation where failure to observe the danger notice may result in death or serious irreversible injury.



This sign warns of a dangerous situation where failure to observe the danger notice may result in minor reversible injury.



This sign warns of situations where failure to observe the notice may result in damage to the unit or malfunction.

2. General



Note

LEDental Power Light may only be used with the original accessories.



Caution

Do not install the unit in locations that are damp or where contact with liquids is to be expected.

3. Scope of delivery

LEDental Power Light

Extension cable jack 3.5mm

Strain relief

LEDental Power Box

Charger for LEDental Power Box

Metal or plastic case

4. Preparations

The battery of the Power Box is charged.

Attach the Power Box to your belt using the clip.

Attach the strain relief to the extension cable about 10 cm from the jack socket and then to the collar. Run the cable along the back under the clothing to the power box. Insert the plug into the outer jack socket.



Note

When wearing the Power Box, make sure that the connector is vertically upwards and not constantly deflected sideways by transverse forces, especially when sitting.

The box should be worn on the belt in the area of the buttocks.

Lateral forces on the plug cause firstly a strong kinking of the cable with the danger of a cable break. Secondly, constant lateral deflection of the plug wears out the contacts between plug and socket. Both lead to loose contacts.

Connect the cable of the LED to one temple of the spectacle frame using the pre-mounted rubber rings. In the case of the headband, the cable is to be placed in the pads of the headband. To do this, open the press studs.



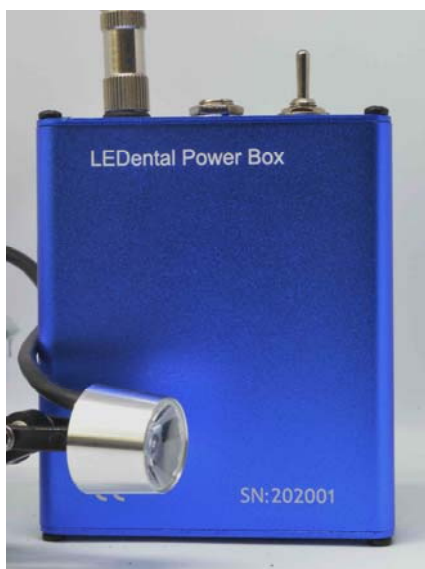
The rubber rings are to be attached to the temple of the spectacles in such a way that there is no pull of the cable on the LED frame both when the spectacles are worn and when they are closed.

The coupling in the neck area allows you to put down the glasses with LED while the cable to the box remains on the body.

You can adjust the light optimally at the hinge joint of the LED.

5. Switching the unit on and off

If the toggle switch of the Power Box is in the middle position, the LED is switched off. If it is tilted to the outside, the LED lights up.



Never look directly into the light of the LED! This can lead to retinal damage. For safety reasons, it is recommended to protect the patient's eyes with dark glasses.

6. Charging the battery

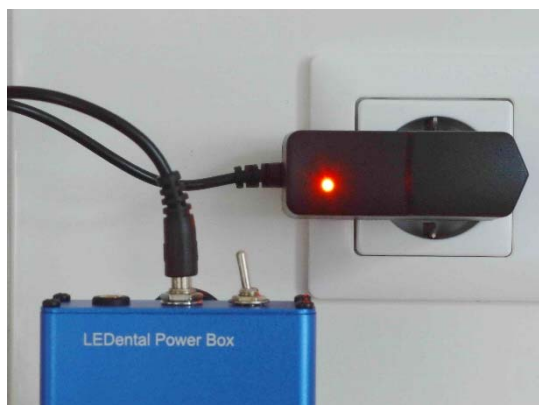


Warning

The charging process may only be carried out with the CC-CV charger supplied!

Insert the hollow plug of the charger into the middle socket of the Power Box and the charger into the socket. The LED on the charger is green. When the toggle switch of the Power Box is tilted to the middle of the box, the charging process starts.

If the diode on the charger lights up red, the charging process is active. When the battery is fully charged, the LED is green again.



Note

If the LED of the charger does not light up red at the beginning of the charging process, even though the battery is discharged, turn the plug in the socket back and forth a little.

7. Replacing the battery

If the battery needs to be replaced, send the Power Box securely packaged to LEDental GmbH. It will be returned to you as soon as possible.



The device and the battery it contains must not be disposed of in household waste. According to the Battery Ordinance, you as the end user are legally obliged to return the battery. You can send the defective battery to me or, as required by law, return it free of charge to the municipal collection points

8. Technical data

LEDental PowerLight lite:

Weight on glasses: 10-20g, depending on clip
Colour temperature: 5500 K
Current at Power Box 350: 350mA
Illuminance at 35 cm: 20000 Lux
Lighting time with Power Box 350: approx. 8 hours

LEDental PowerLight lite NLC:

Weight on glasses: 10-20g, depending on clip
Colour temperature: 2700 K
Current on Power Box 350: 350mA
Illuminance at 35 cm: 15000 Lux
Lighting duration with Power Box 350: approx. 8 hours.

LEDental PowerLight spot:

Weight on glasses: 20g
Colour temperature: 5500 K
Current on Power Box 550: 550mA
Illuminance at 35 cm: 35000 Lux
Light duration with Power Box 550: >3.5 hours

LEDental Power Box 350:

Dimensions (L,W,D): 87,72,26 mm
Weight: 169g
Housing material: Aluminium, blue anodised
Battery: 18650 lithium-ion battery, 3500 mAh, PCB
Output voltage: approx. 3V
Output current: 350mA
Hollow coupling for connecting the charger, pin diameter: 2.1 mm
Plastic belt clip

LEDental Power Box 550:

Dimensions (L,W,D): 87,72,26 mm
Weight: 169g
Housing materia: aluminium, black anodised
Battery: 18650 lithium-ion battery, 3500 mAh, PCB
Output voltage: approx. 3.6V
Output current: 550mA
Hollow coupling for connecting the charger, pin diameter: 2.1 mm
Plastic belt clip

Charger for Power Box:

Charging mode: CC-CV
CC mode: constant current: 2A, voltage: 2.8 - 3.7 V
CV mode: constant voltage: 3.7 - 4.15 V, current then decreases to 0.2A
Green LED: battery fully charged or not charging
Red LED: battery charging

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