

# PRIOLITE

LED 400

Instruction manual

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## **USER MANUAL**

Technical data are subject to change. No guarantee for misprints. The listed values are guide values and should not be understood as binding in a legal sense. The values can differ due to tolerances in used components.

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## Introduction

Dear photographer,

Thank you for selecting the **PRIOLITE** LED 400 continuous video light.

As a young, aspiring company, **PRIOLITE** intends to use innovative technologies and high-quality products to open up new market segments for professional photography.

Our devices are based on state-of-the-art technology and equipped with carefully selected components. Our production process is being continuously monitored to ensure high quality and safety standards.

Before using this unit, please read the operating manual and safety instructions carefully to prevent damage to the device and maintain your warranty.

We wish you many successful years of productive and innovative work with our equipment. Should you have questions about our products, please contact us!

Best regards,  
**PRIOLITE** GmbH

## Description

The **PRIOLITE** LED 400 is a radio-controlled, battery-operated LED continuous video light with an exchangeable battery. The device is equipped with 70 high-power LEDs on a massive heatsink. The maximum light output is equivalent to a 400W halogen bulb but requires only a fraction of the electrical power. Special emphasis was placed in the selection of the LEDs regarding the color rendering index RA. The LEDs used by **PRIOLITE** have a RA index of 95 and thus, provide a phantastic color correctness. All **PRIOLITE** lightformers can be attached to the LED 400 light.

## Delivery includes

- ◇ 1 LED 400 with battery (exchangeable)
- ◇ 1 multi-voltage battery charger
- ◇ 1 tilting head
- ◇ 1 black plastic protective cap for transport

## Intended use

The LED 400 battery-powered continuous video light is intended for mobile applications in the context of professional photography as well as film and video, in the studio or on-location. The LED continuous video light is designed for lighting of photography, film and video recordings, and must not be used for any other purpose.

## Safety instructions

- ❖ LED continuous light units must not be operated without supervision.
- ❖ Always use extreme caution when handling LED continuous video lights because of the generation of extreme heat during operation and the resulting risk of burns.
- ❖ The opening of the casing and repairs on LED devices must be carried out only by authorized customer service personnel.
- ❖ Only the provided original **PRIOLITE** charger must be used for charging the batteries. Before each use, check to ensure that the casing as well as all cables, connectors and sockets are in good, undamaged condition. Otherwise operation of this device is forbidden; damaged units and/or cables must be repaired or replaced by authorized customer service personnel.
- ❖ It is particularly important to protect LED continuous video lights from moisture, splash water, and impacts during use or transport. These units are not designed for operation in dusty environments. LED continuous lights must never be used in potentially explosive areas; to prevent the risk of fire, do not store flammable materials (e.g. decorative materials, paper, etc.) in the immediate vicinity of the LED devices.
- ❖ Do not insert any objects into the ventilation slits or the charging or synchronization sockets. The ventilation slits must be kept clear during operation.
- ❖ LED continuous video lights mounted on pantographs, ceiling systems, or extended stands must be doubly secured against falling down.
- ❖ Do not point LEDs directly at eyes from short distances (less than 5 meters) as this can cause injury to the eyes. Do not look directly into the LED array.

### **Specific safety precautions when working with Lithium-ion batteries**

The provided Lithium-ion battery contains a protection circuit that protects the battery against overload, deep discharge, short circuit and overheating.

In case of improper use (cutting, breaking, overheating) the batteries can explode or cause fires, even after a prolonged time interval. Therefore, Lithium-ion batteries are generally to be protected from mechanical damage and kept away from heat, open flames, and corrosive liquids. Batteries must not be damaged in any way. Lithium cells generally respond violently with water (particularly in fully charged condition); therefore, in case of burning do not extinguish the flames with water, but use sand. Damaged Lithium-ion batteries are readily to be disposed of in appropriate containers.

Lithium-ion batteries contain flammable and / or corrosive solutions and Lithium salts, which may cause in the case of leakage irritation to skin, eyes, and mucous membranes. In case of contact with escaped electrolytes, gases, or fire by-products of a Lithium-ion battery, the following first aid measures must be observed:

**Eyes:** In case of contact with eyes, rinse immediately for at least 15 minutes with water. Keep eyelids open in order to ensure the complete flushing of the eye.

**Skin:** Take off contaminated clothing and rinse under cold water for at least 15 minutes.  
**Respiratory system:** Ensure fresh air supply. If necessary, perform first aid measures.

**In any case, following first aid measures a doctor should be consulted.**

Lithium-ion batteries must be only recharged with the supplied **PRIOLITE** charger (58V charger).

The charge should be performed only under supervision and not in close proximity to combustible materials; sufficient dissipation of heat must be provided (do not charge the battery in the sun).

If a Lithium-ion battery is carried on air travel, then it must be discharged prior to departure to avoid any risks.

**Technical specifications** **LED 400**

Output:	equivalent to 400W halogen
Voltage supply:	Lithium-ion battery with protection circuit, No memory effect, 58V, 80 Wh, weight approx. 900 g
Color index:	RA 95
Color temperature:	5500 Kelvin
Running time:	1 hour at full power, 8 hours at minimum power
Power adjustment:	in 1/10 increments from 10 to 5.0, Min/Max setting
Charger:	58V (multi-voltage)
Charging time:	approx. 2 hrs to 80% and approx. 3 hrs to full charge
Weight (without tilt):	2,9 kg (battery included)
Dimensions (cm x cm):	36 x 17
Code No.:	06-0400-01

**Initial operation**

**Set-up and assembly**

The LED 400 continuous video light is equipped as standard with a tilting head. For set-up on tripods, pantographs or ceiling systems, this is screwed securely onto the appropriate tripod mount using the locking thumbscrew on the side of the panner.



If the units are suspended from pantographs, ceiling rails, or extended stands, a second secure connection is required in accordance with the applicable safety regulations. It is recommended to insert a steel cable suitable for this purpose (not included) through the opening of the handle and to secure it to a suitable lug on the suspension unit.

**Adjustment of the tilting head**

Dependent on the direction the tilting head is inserted into the rail profile, right and left hand use is possible. You have the following options for adjusting the LED 400 continuous video light:

- ◆ The inclination angle can be precisely adjusted by means of the large thumbscrew. The rotation angle (360 °) is set using the tripod mounting screw.
- ◆ Using the lateral small thumbscrew on the opposite side, the LED 400 continuous light unit can be shifted backwards or forwards in the rail profile; this might be useful for weight compensation (e.g., when attaching heavy accessories).



To prevent the unit from sliding off the rail and dropping down, the provided M6 screw is to be inserted into the provided thread hole on the rear end of the rail.

### **Mounting of accessories**

Light modifiers (reflector, soft box, umbrella, etc.) are to be mounted to the LED 400 continuous video light before the unit is put into operation. Accordingly, the LED 400 device must always be switched off before the light modifier is changed.



After longer periods of operation the LED 400 continuous video light and the attached accessories (particularly reflectors) can become very hot. To avoid burns upon contact, you should use suitable heat guards when handling the equipment or wait until it has cooled down. Due to the heat build-up, LED 400 continuous light unit must not be operated in the vicinity of flammable objects. Sufficient safety clearance with regard to decoration for photographic purposes must be ensured.

### **Connection of reflectors**

To attach reflectors the clamps are put into open position by pressing the reflector lever against the spring force until it hits the stop and keep it there. Now place the accessory evenly and flush to the unit (for accessories with Bowens S-type adapter, place the three flanges of the accessory that they fit into the corresponding recesses). Do not tilt the accessory during this process. Then return the lever to its initial position moving with the spring force to lock the accessory into place. To remove the accessory, hold it firmly (caution - it could be very hot!), press the lever against the spring force to unlock it and remove the accessory.

The system is generally compatible with most reflectors of the Bowens / S-Line as well as HENSEL / E and EH series. As for HENSEL reflectors, the clamps fit around the raised edge of the reflector from the outside. Should you have any questions concerning compatibility, please contact us.

### **Connection of softboxes**

The **PRIOLITE** softboxes have a speedring which is mounted same way as reflectors (see description above). For softboxes of other brands adapters are available upon request. Please ask for details.

### **Umbrella attachment**

To attach an umbrella, insert the rod in the round opening at the front of the rail profile to the desired length and tighten it using the knurled screw.

### **Overheating**

All units are equipped with a fan to prevent damage to the electronics during prolonged operation. Nonetheless, should overheating occur, an error message will appear on the LED display. The error message will be automatically reset as soon as the unit has cooled down.

## Starting up

The LED 400 continuous video light is switched on and off by pressing the main switch protected by a flap against unintentional switching.



Before each operation, the black plastic transportation cap has to be removed.

The LED 400 continuous video light is equipped with a removable drawer that contains a Lithium-ion battery. The battery status is displayed by pressing the button located below the row of LEDs. If no LED lights up, the battery is discharged. Full charge is indicated by lightening up of all LEDs. The battery is electronically protected against deep discharge.

If the battery is discharged, either the battery drawer can be easily replaced by a new one or the battery charger is connected to the LED 400 continuous video light to continue operation. The charger is designed for multi-voltage operation, i.e., it operates worldwide from 90V - 240V.

The 58V charger for LED 400 have a 6-pin connector.



Under no circumstances any manipulation of connectors and / or sockets are to be made. Only spare parts from **PRIOLITE** are to be used.

## Connection to the charger

The charging of the battery can be done inside the device (switched on or off) or outside. The charging cable of the supplied charger is plugged into the charging socket of the battery drawer and the provided power cable connected to the mains outlet. The charging unit is intended for global supply voltages (multi-voltage: 230V/115V). The charging time of a flat battery to full charge is approximately 3 hours. Full charge is indicated by the lighting up of all 5 LEDs.

## Replacement of battery drawers



Replacement of the battery

### For battery exchange please proceed as follows:

Before exchanging the drawer the device is to be switched off by using the main switch protected by a flap; the green LED light located on the left side of the main switch goes off. Then, place your index finger into the pull-out handle and press your thumb against the bottom flap of the battery drawer. With combined upward push and pull, the drawer is to be completely removed out of the housing of the LED 400 device.



With the battery drawer pulled out of the unit, under no circumstances reach into opening of the LED 400 device!



**Plug-in of the battery**

An exchange drawer fitted with an original **PRIOLITE** battery (58V) is to be inserted completely into the opening of the LED 400 unit with slight pressure. To do so, use both hands and press index finger from reverse and thumbs against each other until the battery drawer clicks in.

### **Functions on the operating panel**



#### **LED 400 operating panel**

From right to left and top to bottom:

PILOT function box (LED Max-Min-Set)

2-digit LED display

Turning knob

Battery drawer with

> Mains switch behind the flap,

> Pull-out handle and upper/lower flap,

> Charging socket and

> row of LEDs for charging control (top left)

RADIO function box (options for remote control)

1-digit LED-display

#### **Control knob**

The control knob is used to set the desired light output in 1/10 increments over a range from 10 to 5.0. The output is displayed on the two-digit 7-segment display with 10 indicating maximum power and 5.0 minimum power output.

#### **PILOT function box (LED light)**

The LED light is switched on or off by pressing one of the "PILOT" buttons. Minimum and maximum output is easily set using the Min and Max button, respectively. Set mode (control LED lights up) allows for individual adjustment of the light output over the full range in 1/10 increments by turning the control knob. The selected power output is indicated on the two-digit LED display.

## **RADIO function box (radio operation)**

For remote radio operation, use the three radio buttons on the right.

### **ON:**

If the ON button is activated (control LED lights up), the LED 400 continuous video light can be operated by radio. Additional settings for TEAM and ID are required.

### **Team/ID:**

Selection of a team (A, B, C, or D) or an ID (1 to 9) is done by pressing the Team or the ID button and simultaneously turning the control knob until the desired selection is indicated on the single-digit LED display. By adjusting all possible combinations, a maximum of 36 **PRIOLITEs** (LED 400, series M, MB, MBX, M-PACK) can be individually controlled.



Team and ID can be changed only when the radio function is "ON".

## **Maintenance**

### **Regular inspection and repairs**

Users must not perform any maintenance works or repairs on the LED 400 devices; these are to be carried out exclusively by authorized customer service personnel.

In accordance with country-specific safety regulations, inspection and maintenance of electrical systems and devices should be carried out at regular intervals. We recommend an annual inspection of the units to ensure operational safety and reliability and to maintain the value of the system.

### **Return to customer service**

To prevent damage during transport and to ensure optimal protection of the units, we recommend to ship the devices only in the original packaging.

### **Disposal**

Disused and defective units must be disposed of in the electronic recycling.

## **Accessories**

The following accessories are available:

- ◇ Radio remote control
- ◇ Lightformers (reflectors, grids, softboxes, octaforms, striplights, umbrellas)
- ◇ Stands, bags
- ◇ Multi-voltage charger, battery exchange drawers

**Contact information**

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**Declaration of Conformity**

The company **PRIOLITE** GmbH  
Gattingerstr. 7, D-97076 Würzburg, Germany  
declares that the product

**LED 400 continuous video light**

is in conformity with the following standards:  
EN 61000-6-3:2007, EN 61000-6-2:2005 and DIN EN 60335  
according to the provisions of the Directives  
2004/108/EG and 2006/95/EG

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