![elinchrom®]

LED
100 C

User manual

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LED 100 C

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Introduction

Dear photographer,

Thank you for buying the Elinchrom LED 100 C continuous light unit. All Elinchrom products are manufactured using the most advanced technology.

Carefully selected components are used to ensure the highest quality and the equipment is submitted to many tests both during and after manufacture. We trust that it will give you many years of reliable service.

Please read the instructions carefully before use, for your safety and to obtain maximum benefit from many features.

Your Elinchrom-Team

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This manual may show images of products with accessories, which are not part of sets or single units. Elinchrom set and single unit configurations may change without advice and may differ in other countries. Please find actual configurations at www.elinchrom.com

For further details, upgrades, news and the latest information about the Elinchrom System, please regularly visit the Elinchrom website. The latest user guides and technical specifications can be downloaded in the "Support" area.

Technical data, features and functions of Elinchrom flash units, accessories and the Skyport system may change without advice. The listed values can differ due to tolerances in components, or measuring instruments. Technical data, subject to change. No guarantee for misprints.

Keep this user manual for later information and reference.

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LED 100 C characteristics

The LED 100 C Continuous light unit offers CCT, RGB and FX Mode.

- Adjustable from 2700K to 6500K in 100K steps for precise control over warm, neutral, and cool lighting.
- 50W of fully adjustable RGB in 1° increments on the HSV color wheel.
- 15 built-in FX modes
- Works seamlessly with Elinchrom OCF, Elinchrom full mount, and most Profoto-mount light shapers, providing unmatched flexibility.
- A 72Wh battery provides up to 40 minutes of full-power use and supports 100W USB-C Power Delivery, ensuring continuous operation while charging.
- USB-C socket for recharging & firmware updates.
- Weighing just 0.91 kg (2.01 lbs.), it is designed for on-the-go creators without sacrificing performance.
- Features an intuitive touchscreen and Bluetooth connectivity (via the Elinchrom LED App, coming early spring 2025) for seamless remote operation.
- Optimized for high-frame-rate video recording, ensuring smooth and stable lighting for professional productions.
- Small Dimensions; 17.2 x 10 x 10.2 cm / 6.7x3.9x4 inch.

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FIRMWARE UPDATES
The functionality is constantly extended and improved, always use the latest firmware of the LED 100 C light unit.

Before you start
GENERAL USER SAFETY INFORMATION

- Continuous light units are powerful light sources. Please be aware of the danger, or inconvenience, that they may present to some persons and children.
- Keep LED units out of reach of unauthorised persons whenever possible.
- Keep LED units away from children!
- According to safety regulations, we draw your attention to the fact that electronic LED units are not designed for extreme outdoor use, in damp or dusty conditions and should not be used after being exposed to sudden temperature changes causing condensation.
- The unit protection class conforms to IP20.
- Do not use without permission in restricted areas (such as hospitals, laboratories, etc.).
- Do not use near flammable / explosive material. Keep minimum 1m or more distance to any object.
- Never aim the light into the eyes of a subject without warning. Close use may affect eyesight.

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- The ambient temperature whilst the unit is in use:
  - Min./Max temperature: -10°C (14°F) up to max. 40°C (104°F).
  - Storage temperature: 15°C up to 25°C.
  - Charging temperature: 0°C to 40°C.
- The battery unit may retain an internal charge for a considerable time.
- For your safety, never open or disassemble your unit. Only an authorised service engineer should open or attempt to repair this unit.
- Always switch off the LED unit before changing accessories.
- The unit and accessories may become very hot during and after use! To avoid injuries, handle with an insulating cloth or wait until parts have cooled down. Avoid direct sunlight, which might heat up the LED unit. Protect the LED unit when used in humid conditions but ensure ventilation for cooling!
- On no account should any object be inserted into the ventilation holes.
- Use only original Elinchrom Accessories. Damaged cables and cases must be immediately replaced by customer service.

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WARNING: PHOTOSENSITIVITY / EPILEPSY / SEIZURES
A very small percentage of individuals may experience epileptic seizures or blackouts when exposed to certain light patterns or flashing lights. These conditions may trigger previously undetected epileptic symptoms or seizures in persons who have no history of prior seizures or epilepsy. If you, or anyone in your family, has an epileptic condition or has had seizures of any kind, consult your physician before using the EL unit.

IMMEDIATELY DISCONTINUE use and consult your physician before resuming use of your EL unit if you or any person experiences any of the following health problems or symptoms:

- Dizziness
- Eye or muscle twitches
- Disorientation
- Any involuntary movement
- Altered vision
- Loss of awareness
- Seizures or convulsion

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BATTERY SAFETY AND CHARGING NOTICE

IMPORTANT! FOR YOUR SAFETY do not use the Battery unit for a purpose other than those specified!

- To recharge the internal battery we recommend using the Elinchrom 100W USB-C Wall Charger. If the recharging operation fails to complete even when a specified recharging time has elapsed, immediately stop further recharging and disconnect the charger.
- If the internal battery gives off odors, generates heat, or is deformed, or in any way appears abnormal during use, recharging or storage, immediately remove the Charger and stop using it.
- **Recharge the LED 100 C after using.
Store the unit only with a recharged battery!**
- **If the LED 100 C is not frequently used, recharge the unit latest after three months to avoid damaging the Li-Ion cells by deep discharging.**
- **Do not expose the unit to extreme heat, cold or humidity to avoid damages.**

**DO NOT USE A FAULTY, APPARENTLY DAMAGED OR DEFORMED BATTERY UNIT!
ELECTRICAL, CHEMICAL AND MECHANICAL HAZARDS**

- Do not disassemble, open or modify the battery unit.
- Do not transport or store the battery unit together with metal objects such as necklaces, hairpins, etc.

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- Do not pierce the Battery unit with a nail or other sharp objects, strike it with a hammer, or stand on it.
- Do not strike or throw the Battery unit.
- If the Battery unit leaks and electrolyte gets into the eyes, do not rub them. Instead, rinse the eyes with clean running water and immediately seek medical attention. Otherwise, eye injury may result.
- Store the Battery unit in a location where children cannot reach it.
- Do not put the Battery unit into a microwave oven or a pressurized container.

OUTDOOR USE
CAUTION! PROTECT THE BATTERY PACK AGAINST HUMIDITY!

This product is designed for dry use and should not come into contact with water or dust. In humid conditions cover or otherwise protect the battery unit. Do not immerse the Battery unit in water / seawater and do not allow it to get wet. The unit protection class conforms to IP20.

TEMPERATURE PRECAUTIONS

To prevent overheating the product should not be covered whilst in charge mode or in general use! Do not use, charge or leave the Battery unit near a heat source (+60°C or higher) such as an open fire, a heater or direct
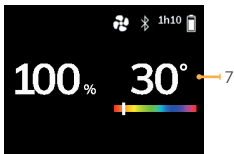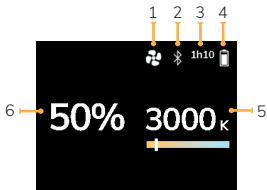
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sunlight. If the Battery unit has been exposed to very cold conditions, sudden exposure to warm or humid air may cause condensation and malfunction.

LED LIGHT SAFETY NOTICE

- LED light may become very hot during and after use!
- Do not aim the light from short distances directed towards a person.
- Do not use near flammable / explosive material.

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DISPLAY PANEL – DASHBOARD

1. Fan On/Off
2. Bluetooth On/Off
3. Battery duration
4. Battery status
5. Color temprature
6. Power value
7. Color
8. Special effect

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Control Panel

1. On/Off Button.
Long press: On/Off
Short press: access to menu

2. Left Wheel/Button.
Turn wheel:
decrease/increase power
Press: turn the light ON/OFF

↻ CW: +1% power / up
↺ CCW: -1% power / down

3. Right Wheel/Button.
Press: switch between color
temperature, color and FX.
Turn wheel: decrease/increase color temperature,
change color and browse through FX.

Color Temperature:
↻ CW: +100K / up
↺ CCW: -100K / down

Color change:
<70% power   >70%power
↻ CW: +10° / up   ↻ CW: +1° / up
↺ CCW: -10° / down   ↺ CCW: +1° / down

4. Touchscreen.
Slide across: decrease/increase color temperature,
change color and browse through FX.

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USB-C

USB-C socket for charging and firmware update.

The USB-C offers the following options:

- Re-charging the built-in Li-Ion Battery with the Elinchrom 100W USB-C Wall Charger.
- Re-charging and operating the unit with the EL-Power Bank.
- Firmware updates with the Elinchrom Updater software.

SETUP MENU

To access the menu press on the central button

1. **Special effects:** Swipe to choose the special effect
2. **Fan:** Switch On/Off limits to 20% in CCT and to 50% in RGB
3. **Bluetooth:** Switch On/Off.
4. **Auto Stand-by:** Change duration or switch off.
5. **Auto Off:** Change duration or switch off.
6. **Auto On:** Switch On/Off automatically turn ON the unit when USB power is connected.
7. **Background:** Switch to black or white.
8. **Touchscreen:** Switch On/Off
9. **Info:** Switch On/Off
10. **Certifications:** Show certifications

FX	CCT intensity Loop
	Intensity Loop
	Paparazzi
	Lighting
	TV
	Candle
	Strobe
	Explosion
	Faulty Bulb
	Welding
	HUE intensity Loop
	Fire
	Cop Car
	Colors Chase
	Party Lights
	Fireworks

Auto Stand-by	OFF / 15min / 30min / 45min / 60min
Auto Off	OFF / 15min / 30min / 45min / 60min
Auto On	ON / OFF

Info	Friendly name	Elinchrom LED 100 C standard, can be changed with the desktop software or mobile app.
	Firmware rev.	x.x
	Life time	In hours (hh:mm)
	Power-on count	How many times the units has been turned on
	Factory Reset button	Reset to factory settings
	How tu update button	Show QR code, scan with smartphone

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Charging / 100W USB-C Wall Charger
Use only the original Elinchrom LED 100 C USB-C
Charger to recharge the built-in Li-Ion battery.

- Recharging time: Approximately 100 min. to 100% ,
  when the unit is switched on (Fast charge mode).
- Battery capacity min./max power: 11250 / 525
  flashes per charged battery.
- Recharge the unit only at temperatures from 0° C
  to 40° C.
- Recharge the Li-Ion battery before storing the unit.
- If the unit is not used frequently, recharge the unit
  after latest 3 months.
- Active Charging: The LED 100 C can be used whilst
  charging. When using the Elinchrom 100W USB-C
  Wall Charger, fast charge will be activated, other
  USB-C sources need to be able to deliver at least
  25W for fast charge to be activated.

Firmware Update via USB-C
- Download the Updater software from elinchrom.com.
- Connect the USB-C cable to the computer.
- Press the Scroll while the unit is OFF and connect the
  cable to the unit.
- When "USB Mode" is displayed, launch the Updater.
- Launch the Updater software and follow the
  instruction on the screen.

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Tilt Head

The metal tilt head is removeable, fixed with a ¼ inch screw lock to pack the unit small if needed or to fix the LED 100 C to other standard supports, boom arms, grips etc. It includes the umbrella fitting as well for 7-8mm umbrella shafts and a two-way mount option for stands.

LED 100 C SPECIFICATION

UNIT

Max Power Output	100W in CCT / 50W in RGB
Mode	CCT, RGB or FX
CCT	2700 - 6500°K
RGB	0 - 360° in steps of 1° at 100% intensity in steps of 10° at <70% intensity
Dimming	0 – 100 %
CRI	95+
Real Beam Angle (No reflector)	105°
Lux (1m, no reflector, max power)	3000 at 2700°K 3000 at 3200°K 3000 at 4200°K 3000 at 5600°K 3250 at 6500°K
Control Methods	On-board, App
Screen Type	LCD-Touchscreen
Cooling Method	Active fan / Can be deactivated for Silent Mode Limited to 20% in CCT, 50% in RGB and 50% in FX Mode
Input	100W PD USB-C

BATTERY		
Battery	Li-Ion - Built-in - 72Wh
Battery run time	40 minutes at 100%
Charging time (with 100W USB-C Wall Charger)	60 m (80%) – 85 m (100%)

DIMENSIONS		
Dimensions (with/without tilt head)	17.2 x 10 x 20.6 cm / 17.2 x 10 x 10.2 cm
Weight (with/without tilt head)	1.14 kg / 0.91 kg
Umbrella fitting (on tilt head)	7 – 8 mm

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Unit Lock
This feature prevents that the unit switches on during transport and may discharge the Li-Ion battery. To activate this function: switch the unit off and press shortly and immediately "Menu". To unlock the On/Off button, press on and immediately "Menu".

Reset To Default Settings
Switch the unit on and release the ON button. When the EL Logo appears press immediately the **"ON"** and **"Menu"** button for **4 seconds** until the display shows **"Reload all default parameters".**

MAINTENANCE
The LED 100 C Off-Camera LED unit require only very little maintenance. To ensure secure operation please check the following points regularly before using:

- Do not use water to clean dust and dirt from the unit.
- Ventilation grids must be clean and free of any tape, etc.
- The functionality is constantly extended and improved, please check at **www.elinchrom.com** if a new firmware is available.

CAUTION!
Under no circumstances open any part of the equipment. The Elinchrom LED 100 C unit is not user serviceable and contains dangerous high voltage. In the event of difficulty contact your Elinchrom Service partner.

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REGULAR CHECK
National safety regulations require frequent safety checks of the electrical equipment. The Elinchrom LED 100 C unit should be checked once a year. This check not only guarantees safety; it also protects the value of the unit.

RETURN TO CUSTOMER SERVICE
To achieve maximum protection of the unit when sending it in for service, the original packaging should be kept. For service and sales, please contact your local ELINCHROM Distributor. http://elinchrom.com/distrib.php

TRANSPORTATION
Use only the original cartons or cases when you travel or ship flash units to avoid transportation damages. Try to avoid condensation related problems, acclimatise flash units before using them.
Ideally discharge LED units before transporting them and wait 90 minutes after the USB-C cable has been removed so the unit has cooled down. Never drop a LED unit; the unit and its internal components could break.

DISPOSAL AND RECYCLING
This device has been manufactured to the highest standards from materials which can be recycled or disposed of in a manner that is not environmentally damaging. The device may be taken back after use to be recycled, provided that it is returned in a condition that is

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the result of normal use.

Any components not reclaimable will be disposed of in an environmentally acceptable manner.

If you have any question on disposal, please contact your local office or your local ELINCHROM distributor (please visit our website for a list of all ELINCHROM distributors worldwide).

LEGAL INFORMATION
FCC CLASS B COMPLIANCE STATEMENT

Product name	Elinchrom LED 100 C
Article number	20940
Name of responsible party	ELINCHROM LTD Route de la Venoge 20 1026 Echandens VD / Switzerland
Phone	+41 21 637 26 77
Email	support@elinchrom.ch

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.

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2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into a power outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

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Modifications: Changes or modifications not approved by ELINCHROM LTD can void the user's authority to operate the equipment.

DECLARATION OF CONFORMITY USA AND CANADA
Industry Canada (IC) Compliance Notice
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
1.   Cet appareil ne doit pas causer d'interférences, et
2.   Cet appareil doit accepter toute interférence, y compris l'interférence qui peut causer un fonctionnement non désiré de l'appareil
3.   Avis de conformité aux normes d'Industrie Canada (IC).
4.   Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Son exploitation est autorisée aux deux conditions suivantes:
5.   Il ne doit pas produire de brouillage; et
6.   Il doit accepter tout brouillage radioélectrique subi, même si celui-ci est susceptible d'en compromettre le fonctionnement.

CE MARKING
The shipped version of this device complies with the requirements of European Directives related with it, therefore it is marked with the CE conformity logo. For more information and to download the European

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Declaration of Conformity of this product, please, visit our website http://www.elinchrom.com/support_downloads.php

DOWNLOAD CONFORMITY
Please find the declaration for EC conformity and USA & Canada conformity on the Elinchrom website. Please check all security documents before use!
http://www.elinchrom.com/support_downloads.php

Credits
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Declaration ID: D054400, 103832 - Controller Subsystem - Elinchrom LTD - Elinchrom LED 100 C, 20940.

Frequencies: (Elinchrom LED 100 C / 20940)

Bluetooth®: 2402 MHz ~ 2 480 MHz