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Elinchrom LED 100 C

Service Manual



Elinchrom LED 100 C (20200.1)



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1. SAFETY NOTICE



Elinchrom LED 100 C contains internal Li-Ion battery carrying dangerous levels of electric charge, even though the unit has been disconnected from the USB-C supply. **Before all servicing operations or repairs, you must execute the following Battery Disconnect Process**

2. BATTERY DISCONNECT PROCESS

Elinchrom LED 100 C – Battery Disconnect Process before servicing

<ol style="list-style-type: none"> 1. Remove USB-C cable 2. Power Off the unit 	 <p style="text-align: center;">Image 1</p>
<ol style="list-style-type: none"> 3. Remove the Rubber Pad. (Image 2) <p>Try to keep the rubber pad for the reassembling, if the pad is damaged or the adhesive layer is damaged during this operation, replace it by a new rubber pad 291.086</p> 	 <p style="text-align: center;">Image 2</p>
<ol style="list-style-type: none"> 4. Opening the housing right side <ol style="list-style-type: none"> a) Remove the 3 screws on the Housing Right bottom (Image 3a) b) Remove the screw on the Housing Right top (Image 3b) 	 <p style="text-align: center;">Image 3a</p>  <p style="text-align: center;">Image 3b</p>

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c) Remove the 4 screws on the Front ring
(Image 4a)

d) Remove the front screw of the Housing Right
(Image 4b)



Image 4a



Image 4b

5. Disconnect the internal battery connector

(Image 5)

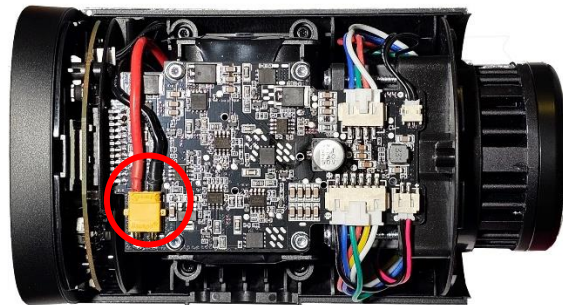


Image 5

6. Unit safe for repair/servicing



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3. SPARE PARTS

All available spare parts are visible in our web shop in the Elinchrom Distributors Center.

www.elinchrom.com/agent

Select **Webshop > Order > Spare Parts > LED > 20200 – Elinchrom LED 100 C**

20200		Elinchrom LED 100 C			
	Ref. #	Description	CHF	Min. Qty Package	Order
	20200.1	Elinchrom LED 100 C (Replacement unit without tilt bracket and any accessories) UN3481 PI 967 Section II - Lithium ion battery contained in equipment.		1PCE 1PCE	
	20200.1.BAT	Elinchrom LED 100 C with spare batteries (1x 20200.1 + 2x 291.090) UN3481 PI 966 Section II - Lithium ion batteries packed with equipment.		1PCE 1PCE	
	25110	Elinchrom OCF Diffusion Dome		1PCE 1PCE	
	291.080	Elinchrom LED 100 C Front Ring		1PCE 1PCE	
	291.081	Elinchrom LED 100 C Housing Left		1PCE 1PCE	
	291.082	Elinchrom LED 100 C Housing Right		1PCE 1PCE	
	291.083	Elinchrom LED 100 C Product Label		10PCE 10PCE	
	291.084	Elinchrom LED 100 C Serial number Label		10PCE 10PCE	
	211.226	Torx Screw KA3x10 Black		100PCE 100PCE	
	211.228	Screw hexalobular (6 Lobes) Head Zgbl PB3x10 (Used for internal assemblies)		100PCE 100PCE	
	291.086	Elinchrom LED 100 C Adhesive Rubber Pad		10PCE 10PCE	
	291.087	Elinchrom LED 100 C Metal Base		1PCE 1PCE	
	201.663	Screw hexalobular (6 Lobe) socket button head M3x4 D5,7+1.65 (Used for Metal Base)		100PCE 100PCE	
	291.088	Elinchrom LED 100 C Housing-Display Assembly		1PCE 1PCE	
	291.089	Elinchrom LED 100 C Driver Board		1PCE	

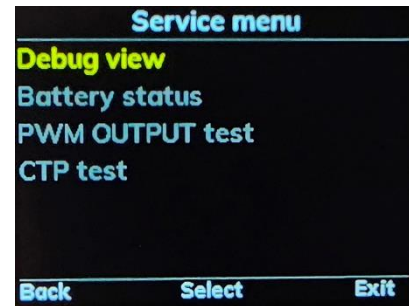
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4. SERVICE MENU

4.1. Enter Service Menu

When the unit is ON, press and hold at least 5 seconds the Left and Right Buttons



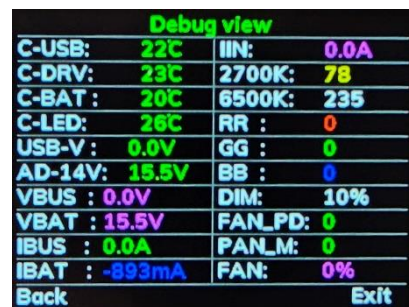
4.2. Menu overview

4.2.1. Debug view

Select "Debug View" in the service menu

Debug View

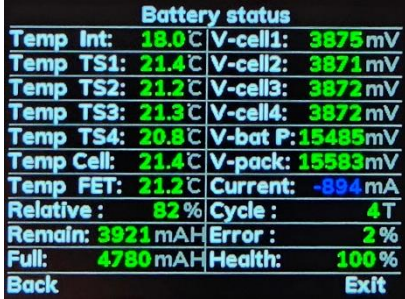
Monitoring of main unit features



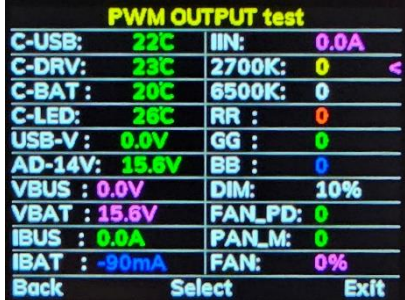
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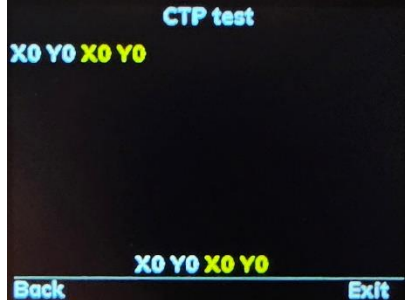
4.2.2. Battery status

<p>Select "Battery status" in the service menu</p>	
<p>Battery status</p> <p>All temperatures, cells voltage, current I/O and battery data are available in this menu</p>	

4.2.3. PWM OUTPUT test

<p>Select "PWM OUTPUT test" in the service menu</p>	
<p>PWM OUTPUT test</p> <p>The 5 PWM output (WW, CW, Red, Green, Blue) can be selected and power adjusted to control each LED circuits</p>	

4.2.4. CTP Test

<p>Select "CTP Test" in the service menu</p>	
<p>Touch screen test [Touch the display]</p>	

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5. FIRMWARE

5.1. Firmware Update

Elinchrom LED 100 C firmware update could be done with a USB-C cable and the Elinchrom Updater software version 2.40 or newer (available on www.elinchrom.com/support/firmware).

Activate Firmware update mode

1. **Switch OFF** the Elinchrom LED 100 C
2. Plug a side of the USB-C cable to your computer
3. **Press and hold** Elinchrom LED 100 C **Left button** and plug the other side of the USB-C in the Elinchrom LED 100 C

"**USB Mode**" is now displayed on the unit (Image 1)

4. Start the Elinchrom Updater Software on your computer and follow instructions in the software

Press "**UPDATE x.x**" button in the software. (Image 2)

"**WAIT...**" is now displayed on the unit

Firmware update is in progress. When finished, "**Download OK**" is now displayed on the unit

5. Firmware is updated. Click OK (Image 3)

"**USB Mode**" is now displayed on the unit

6. Unplug USB-C cable on the Elinchrom LED 100 C side.



Image 1



Image 2

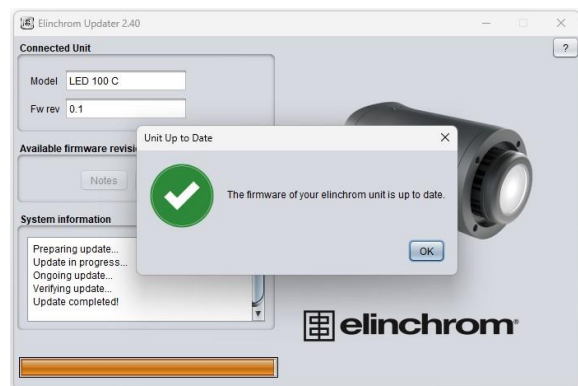


Image 3

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5.2. Firmware Update ELX file (Confidential)

The following instruction is used to update the unit with a specific or older firmware version in ELX file fomrat provided by Elinchrom. **This instruction is strictly confidential. Do not share it to public and delete all ELX file provides by Elinchrom once the update is done.**

Elinchrom LED 100 C firmware update with ELX file could be done with a USB-C cable and the Elinchrom Updater software version 2.40 or newer (available on www.elinchrom.com/support/firmware).

Activate Firmware update mode

1. **Switch OFF** the Elinchrom LED 100 C
2. Plug a side of the USB-C cable to your computer
3. **Press and hold** Elinchrom LED 100 C **Left button** and plug the other side of the USB-C in the Elinchrom LED 100 C

“USB Mode” is now displayed on the unit
(Image 1)

4. Start the Elinchrom Updater Software on your computer.
5. When Elinchrom Updater is opened (image 2), Press **CTRL+SHIFT+F6** (image 3)

Now **“Choose Firmware”** and **“Save Firmware”** buttons are available in the Elinchrom Updater Software.

6. Press **“Choose Firmware”** button and select the ELX file provided by Elinchrom

The firmware update starts.

“WAIT...” is now displayed on the unit.

Firmware update is in progress. When finished, **“Download OK”** is now displayed on the unit

7. Firmware is updated. Click OK (Image 4)

“USB Mode” is now displayed on the unit

8. Unplug USB-C cable on the Elinchrom LED 100 C side.



Image 1

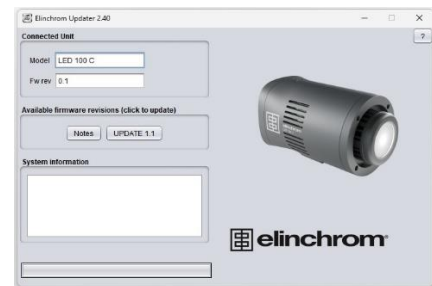


Image 2

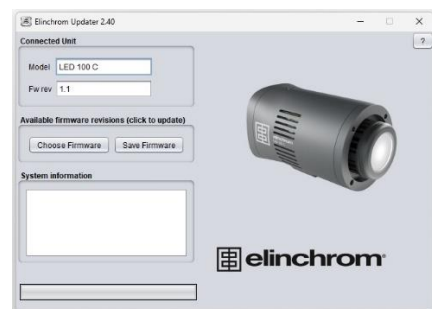


Image 3



Image 4

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6. REPAIR ASSISTANCE

6.1. Failures management

This section will be completed according to the reported failures in time.

Failure Description	Solution for Service

7. KNOWN PROBLEMS

All known problems have a corresponding Technical Note available in the online **Technical Centre**.