■elinchrom®





THREE

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Introduction

Dear photographer,

Thank you for buying the Elinchrom THREE Off-Camera flash 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



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.



THREE characteristics

The THREE Off-Camera unit offers Manual and Action modes and TTL and HSS functionality with the Elinchrom Transmitter Pro.

- 261 Ws maximum output power in Manual and TTL modes.
- 6 f-stops power range, 7-261 Ws.
- LED, dimmable with variable colour temperature 2700-6500 K & presets.
- Action mode for optimised flash duration.
- HSS and TTL is supported with the Transmitter Pro after a firmware update.
- · Coloured TFT touchscreen.
- · USB-C socket for recharging & firmware updates.
- Built-in Li-Ion Battery. Capacity: 41.04 Wh.
- Bluetooth® built-in for desktop and mobile App (macOS, Windows, iOS and Android compatible).
- 4 Groups, 20 Frequency channels.
- The dedicated Group colour is visible at the illuminated Elinchrom side logos.
- Internal WLAN for IoT module update and future options.
- Removeable metal tilt head with umbrella support.
- · Protective glass dome with diffuser cap.



- Supports Elinchrom OCF accessories natively.
 Supports EL Standard accessories with the included Profoto Adapter.
- · Lightweight complete unit only 1.65kg / 3.6lbs.
- Small Dimensions: 25.3x16.5x10.5 cm / 10x6.5x4.1 inch.

Elinchrom TTL

The TTL (Through the Lens Metering) mode allows you to access fully automatic exposure setups according to your digital camera. If you wish to work in the Manual mode or combine both modes, the unit enables you to save the TTL exposure parameters as a starting point when passing to the manual mode. The unit supports Skyport radio remote control, TTL and HSS at full power and the fastest flash durations at low power levels. To operate the unit in the TTL mode, please use the radio remote Elinchrom Pro and activate the TTL function.

- 6 f-stop flash power range.
- TTL +/- 3 f-stops adjustable in 1/3 steps.
- Compatible with Canon, Nikon, Fujifilm, Sony, Olympus / Panasonic and Pentax.

Manual mode

- · Compatible with all Skyport Transmitters.
- Flash power in 1/10 f-stop steps.
- Saves the TTL power as a starting point for the Manual mode.



FIRMWARE UPDATES

The functionality is constantly extended and improved, always use the latest firmware for the Transmitter Pro and the THREE flash unit.

Before you start GENERAL USER SAFETY INFORMATION

- Flash units are powerful light sources. Please be aware of the danger, or inconvenience, that they may present to some persons and children.
- Keep flash units out of reach of unauthorised persons whenever possible.
- · Keep flash units away from children!
- According to safety regulations, we draw your attention to the fact that electronic flash 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 flash into the eyes of a subject without warning. Close use may affect eyesight.



 The ambient temperature whilst the unit is in use: -20°C (-4°F) up to max. 40°C (104°F).

Storage temperature: 15°C up to 25°C.

Charging temperature: 0°C to 40°C.

- There is high voltage and there can be high currents, so please apply all the usual safety precautions when handling the unit.
- Do not use flash units without a mounted and working flashtube due to high voltage at the exposed terminals!
- Flash systems store electrical energy in capacitors by applying high voltage.
- The battery unit may retain an internal charge for a considerable time.
- Internal defective charge capacitors may explode whilst the unit is in use, so never switch on a flash unit, once it has been found to be faulty.
- For your safety, never open or disassemble your flashes. Only an authorised service engineer should open or attempt to repair this unit.
- Always switch off the flash unit before changing accessories.
- The unit, the flashtube 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 flash unit and affect the photocell efficiency. Protect the flash 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, glass domes and cases must be immediately replaced by customer service.

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

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 65W 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 THREE after using. Store the unit only with a recharged battery!
- If the THREE 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.
- 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 sunlight. If the Battery unit has been exposed to very cold conditions, sudden exposure to warm or humid air may cause condensation and malfunction.

FLASH TUBES AND LED-MODELLING LIGHT SAFETY NOTICE

- Flashtubes and the LED-Reflector dishes may become very hot during and after use!
- Never touch a flash tube or exchange it before the unit has cooled down and is disconnected from the charger.
- Do not fire flashes from short distances directed towards a person.
- · Do not use near flammable / explosive material.

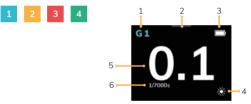


DASHBOARD VIEWS

The colour of the Group corresponds to the group number:

Blue for Group 1 Yellow for Group 2 Red for Group 3 Green for Group 4

The Elinchrom logo on the side of the unit illuminates with the color of the selected group.



- Group 1-4.
- Modelling lamp menu, slide down on the touchscreen by touching the grey bar.
- Battery status.
- Favorite Function; default setting is Mod. Lamp On/Off.
- Power value.
- Flash duration.



Work Screen

Shows the most important settings, once the unit is configured. Displayed automatically after 45 sec of inactivity.



- 1. On/Off Button.
 Long press: On/Off
 Short press: switch display to
 Lock on / Flash / Modelling Lamp
 / LED colour temperature.
- 2. Screen brighness sensor.
- Scroll Button. Save button: press to validate your choice.
 - ♠ CW: +0.1 f-stop / down
 - CCW: -0.1 f-stop / up
- 4. Photocell.
- Menu Button.
- Touchscreen.
- 7. Tilt head, removeable.
- USB-C.









On/Off Button

- Press 2 sec. to switch the unit On/Off.
- Short press to toggle between the displays: flash power, LED light, LED colour temperature.
- Return function: from Menu to power display.

Scroll Button

- Press for Test flash
- · Long press to display user friendly name.
- Left turn to decrease values or scroll functions in the Menu.
- · Right turn to increase values or scroll functions in the Menu.
- · Short press to confirm settings in the Menu.

Menu Button

Press to enter the Menu for individual settings or touch shortly the screen with two fingers.

Menu Icons For Fast Access



To access the menu short tap on screen with 2 fingers





Use the scroll button to select the function or touch directly on the function with one finger, changing values swipe left / right:

- Action Icon: Action mode On/Off.
- Photocell Icon: On/Off.
- Sound Icon: On/Off.
- Group Icon (G): 1-4, Groups with dedicated Group colours.
- Frequency Icon (F): 1-20.
- Settings Icon: 15-unit features for individual unit settings.
- Bluetooth® Icon: On/Off (Windows, macOS, iOS and Android compatible).
- LED Colour Icon: LED color temperature pre-sets, 6 options.
- Display Icon: Black or white background.
- Info-Icon (I) Unit information; Friendly name, FW Version, Skyport ID, Lifetime, Power-on count, flash count.

11. Certifications

	Friendly name	Elinchrom THREE standard, can be changed with the desktop software or mobile app.
	Firmware rev.	*****
Info	Skyport ID	******
into	Life time	In hours (hhhh:mm)
	Power-on count	How many times the units has been turned on
	Flash count	Total flash number



USB-C

The USB-C offers the following options:

- Re-charging the built-in Li-Ion Battery with the Elinchrom 65W USB-C Wall Charger.
- Re-charging and operating the unit with the EL-Power Bank.
- Firmware updates with the Elinchrom Updater software.

Flash Unit Settings

THREE Feature	THREE Settings
Flash before ready (1)	Yes / No
Flash Scale (2)	4.8 - 10 (10 scale)
Modlamp VFC (3)	On / Off
Modlamp Timer	Off / 15 / 30 / 60 minutes
Modlamp Scale (4)	F-stop / Percent
Favourite function (5)	Modlamp / Flash mode / Audio / Photocell
Auto stand-by	Off / 1-59 minutes
Auto-off	Off / 1-60 minutes
EL logo mode (6)	Low, High, Off, Low on ready, High on ready
EL logo color (7)	Group color / White
Ready tone	1,2,3
Ready volume	Off, Low, Medium, High



Keyboard click	On / Off
Skyport	On / Off
Touch	On / Off
Wireless settings for IoT update (8)	SSID / Setup

- Flash before ready: If flash before ready is activated, a flash can be released before the flash unit is 100% recharged, for fast shooting sequences. Deactivated, the unit will only release a flash when 100% recharged, for exact exposures at any power level.
- Flash Scale: use the power scale you prefer.
 The Elinchrom scale compatible with all EL-flash units, just the 4.8-10 power scale, -or power in Ws.
- Modlamp VFC: Visual Flash Control, the LED will switch off shortly, after a flash was released as additional flash confirmation
- Modlamp Scale: LED power in f-stop, same as the EL flash scale or in percentage.
- Favourite function: In the display a favourite function can be programmed for fast access. These functions are available; Modlamp / Flash mode / Audio / Photocell.
- EL logo mode: The EL logos on both sides of the unit can be dimmed or switched off. Additionally, they can be used as flash control feature. The side logos



will switch off shortly after releasing a flash, visible from flash power setting 2.5.

 EL logo colour: The side logos can show the dedicated Group colour to identify which unit works in which Group, or just set to white.

Blue for Group 1

Yellow for Group 2

Red for Group 3

Green for Group 4

8. Wireless settings: The Wireless connection is needed to update the "IoT module functionality" of the THREE. To proceed with regular Firmware updates, the UPDATER software is required, available as a free download on the EL website.

Screen Lock



To activate the touch screen lock, , press the Menu button, select the Setting wheel and go to Touch and select on / off





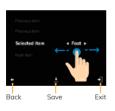


Unit Lock

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".







Modelling Lamp

Swipe down to access the modelling lamp



Swipe left/right to change values





Short touch to access and change the colour temperature



Charging / 65W USB-C Wall Charger

Use only the original Elinchrom THREE 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-lon battery before storing the unit.
- If the unit is not used frequently, recharge the unit after latest 3 months.



 When the unit is switched off and the charger connected, the EL-logos on both sides will light up and indicate the charge levels: red - charging, orange - almost charged, green - unit is charaed.





· Active Charaina: The THREE can be used whilst charging. When using the Elinchrom 65W 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.



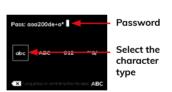
Firmware Update via USB-C

- 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.



Updating the IoT (Bluetooth®) Module THREE Wireless Update procedure

- Go into the menu and click on the "parameters" wheel.
- Scroll down until the parameter "Wireless update >>>" and enter in the submenu.
- Wait few seconds until the networks are displayed and select your THREE.
- 4. Enter your password.



Parameters wheel





Touch screen

If you chose to enter your password via the touch screen, you can change the actual character by scrolling up and down. You can validate the character by taping on it (or sliding on the right) and remove it by taping on the "back" icon (or sliding on the left). The character type can be changed by taping directly on it. Once done, tap one time shortly on the sentence "long press to save".



Keyboard

If you chose to use the keyboard, you can change the actual character by turning the knob. You can validate the character by pressing on the knob and remove it by pressing on the left button. The character type can be changed through the right button. Once done, long press on the knob to start the connexion.

Note: to go back to the previous screen, delete a character when there is nothing in the password.

- 5. Message on the display: Connected successfully.
- Wait until the update is finished (can take few minutes).
- 7. Message on the display: OTA updated successfully.

The THREE is ready and can be used with the Elinchrom Studio or Android/iOS App.



Replacing the Flashtube // 24091

- Switch the unit off and remove the charger.
- Wait 90 min., whilst the internal discharging is in progress. Flashtube and internal reflector dish can be hot!
- To remove the glass dome, you require a screwdriver.
 Remove the three screws which holds the glass dome with the metal ring on the inner reflector dish.



4. Never touch flashtubes, please use gloves. Pull the flashtube carefully out. HIGH VOLTAGE! Never touch broken flashtubes or electrodes! In this case remove the flashtube with an isolated clamp!



- Insert a new flashtube, please use gloves.
- Use only the original Elinchrom flashtube for this unit, third party flashtubes may damage the flash unit.



- **7.** Please check that the trigger contact fork firmly grips the flashtube.
- Re-mount the glass dome with the metal ring by using the 3x screws.
- 9. Ensure that all parts are in place and test the unit.



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 THREE 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.

Troubleshooting

Error Table

Error number	Description	Solution
1	Capacitor overvoltage	Switch the unit
4	Charge timeout	off, wait 2 minutes and switch the unit on again. If the error shows up again the unit requires a check-up at an authorised Elinchrom Service Centre.
6	Charge hold error	
8	Charge circuit error	
18	Discharge circuit error	
33	14VDC error	



THREE SPECIFICATION

	Energy	261 Ws
	F-stop 1m, ISO 100, Reflector 26cm, max power	64.3
	F-stop 1m, ISO 100, OCF Diffusion Dome, max power	22
	Power range	6 F-Stop
	Power range	7 – 261 Ws
IND	Power range display	0.1 – 5.3 (Elinchrom scale) 4.8 – 10 (10 scale)
	Power increments in Manual / TTL mode	0.1 F-stop / 0.3 F-stop
	Flash duration Normal mode - t0.1 min/max power	1/1550s – 1/255s
	Flash duration Action mode - t0.1 min/max power	1/8500s – 1/440s
	Recycling time min/max power in s.	0.08s / 1.2s
	Flash mode	TTL, HSS (with Transmitter Pro) Manual
	Action mode	Faster flash duration over the power range



Colour temperature in K° max. power	Action: 5900 * HSS: 5600
Flash colour stability over the power range all modes	±150 K
Power stability	±0.5%
Auto power dumping	Adjusts power settings automatically in real time
Fan cooled	Smart proactive cooling
Input	USB-C

*Please note that the measured colour temperature might vary depending on the accessory, environment, and flashtube use

BATTERY	Battery	Li-lon - Built-in - 41.04Wh
	Battery capacity min/max power (LED lamp OFF)	11250 / 525
	Battery capacity min/max power (LED lamp ON 100%)	9000 / 420
	Battery charge status	On the display if ON and side logo if OFF
	Charging time with 65W USB-C Wall Charger	Fast Charge (unit is on) 80% – 60 min - 100% – 100 min Slow Charge (unit is off) 80% – 80 min - 100% – 135 min



	LED modes modelling lamp	On/Off, free, proportional, VFC
	LED power modelling lamp	20W / equivalent to 120W 3000 lm / CRI 95
	LED color temperature modelling lamp	Presets from 2700 K to 6500 K
	LED running time LED only, min/max power	10 hours / 90 minutes
KADIO	Skyport (built-in)	20 frequencies, 4 Groups,
	Skyport distance range with Transmitter Pro	Indoor: up to 60 m / Outdoor: up to 200 m
	Bluetooth® (built-in)	Version 4.2 Compatible Studio Software Windows, macOS, Android, iOS
	Umbrella fitting	On tilt head - 7 – 8 mm
SIZE	Dimensions with Diffusion Dome and tilt head	25.3 x 16.5 x 10.5 cm 10 x 6.5 x 4.1 inches
	Dimensions without Diffusion Dome and tilt head	24.5 x 10 x 10 cm 9.7 x 3.9 x 3.9 inches
	Weight with/without tilt head	1.65 kg – 3.6 lbs / 1.45 kg – 3.2 lbs



MAINTENANCE

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

- · Ensure that the plug-in flash tube is correctly fitted.
- 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.

CALITION

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

REGULAR CHECK

National safety regulations require frequent safety checks of the electrical equipment. The Elinchrom THREE 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 flash 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 flash unit; the flashtube and 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 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).



I EGAL INFORMATION

FCC CLASS B COMPLIANCE STATEMENT

Product name	Elinchrom THREE
Article number	20940
Name of responsible party	ELINCHROM LTD Avenue de Longemalle 11 1020 Renens 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.
- 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.

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 licenseexempt RSS standard(s). Operation is subject to the following two conditions:

- 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
- Avis de conformité aux normes d'Industrie Canada (IC).
- 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
- Il doit accepter tout brouillage radioélectrique subi, même si celui-ci est susceptible d'en compromettre le fonctionnement

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

DOWNLOAD THE THREE USER MANUAL

Please get the complete user guide at this link: www.elinchrom.com/support/download-center/



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

Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG Inc. and any use of this marks by Elinchrom LTD is under license.

Declaration ID: D054400, 103832 - Controller Subsystem - Elinchrom LTD - Elinchrom THREE, 20940.

Frequencies: (Elinchrom THREE / 20940)

Skyport: 2404 MHz ~ 2 478 MHz Bluetooth®: 2402 MHz ~ 2 480 MHz Wireless Ian: 2412 MHz ~ 2 472 MHz