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USER MANUAL
GEBRAUCHSANLEITUNG
MANUEL D'UTILISATION
MANUALE D'USO
MANUAL DE FUNCIONAMIENTO
MANUAL DO USUÁRIO
GEBRUIKSAANWIJZING
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ
ユーザーマニュアル
用戶手冊

EN
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ELB 500 TTL UNIT

Elinchrom LTD – ELB 500 TTL Unit – 11.2020



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INTRODUCTION

Dear photographer,

Thank you for buying the Elinchrom ELB 500 TTL 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.

ELB 500 TTL CHARACTERISTICS

The ELB 500 TTL unit implements manual, action and TTL modes. The TTL (Through the Lens Metering) mode allows you to access fully automatic exposure setups according to your digital camera capabilities.

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 and HSS at full power. It offers totally flexible asymmetry and the fastest flash durations at lower power levels.

The ELB 500 TTL unit has the following characteristics:

- 500 Ws maximum output power in manual and TTL modes
- Full asymmetry with two outlets A & B
- 7 f-stops power range
- Action mode for optimised flash duration
- Dedicated ELB 500 Head
- LED modelling lamp power in 40 adjustment levels
- New ergonomic design with large OLED colour display
- Accepts two remote options: Elinchrom PRO and Odin2. Earlier Skyport versions are supported (HSS and TTL is supported on the Transmitter PRO with a firmware update)
- Improved weather protection for outlets
- USB socket for firmware updates and Sync socket 3.5 mm
- Complete unit only 2.49 kg / pack alone 1.7 kg / Battery Box 0.73 kg

ELINCHROM TTL MODE CHARACTERISTICS

- 7 f-stop flash power range
- TTL +/- 3 f-stops adjustable in 1/3 steps.
- LED modelling lamp is adjustable in 40 power steps
- Compatible with Canon and Nikon. Other camera brands will follow.
- Also compatible with Phottix Odin2 radio triggers for Canon, Nikon and Sony

MANUAL MODE CHARACTERISTICS

- Full asymmetry
- Compatible with all Skyport Transmitters
- Flash power in 1/10 f-stop steps
- Action Mode, fast flash durations at all power levels
- Saves the TTL power as a starting point for the manual mode

ELB 500 LI-ION BATTERY FEATURES

- Lightweight Li-Ion battery technology, only 0.73 kg
- Approx. 400 flashes at full power.
- Battery charging time 100 min. to 90%
- Easy battery locking system
- Compatible with ELB 400 charger (19279)

ELB 500 HEAD FEATURES

- Ultra-compact design with flexible 2.5 m cable
- Universal use: single head for Hi-Sync and normal mode
- Dedicated flash tube for the ELB 500 head
- LED modelling lamp 14W (40 steps), 5200K, 90 CRI
- 7 mm umbrella shaft
- Q mount for Quadra accessories
- Optional Quadra Reflector Adapter MK-II (26342) to adapt to EL - accessories

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 humidity protection conforms to the norms of 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: min. -20°C (-4°F) up to max. 35°C (95°F). Storage temperature: -10°C up to 60°C , optimal charging temperature: 0°C up to 45°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 connect the flash head to to the pack 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 units may retain an internal charge for a considerable time even though disconnected from the battery. 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 authorized 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: PHOTSENSITIVITY / 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 NOTICE

IMPORTANT! FOR YOUR SAFETY do not use the Battery Pack for a purpose other than those specified, **USE WITH ELINCHROM EQUIPMENT ONLY!**

- To recharge the Battery Pack, use ONLY the Elinchrom Li-Ion Battery 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 Battery Pack gives off odours, generates heat, becomes discoloured or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or Battery Charger and stop using it.

DO NOT USE A FAULTY, APPARENTLY DAMAGED OR DEFORMED BATTERY PACK!

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ELECTRICAL, CHEMICAL AND MECHANICAL HAZARDS

- Do not disassemble, open or modify the Battery Pack.
- Do not connect the positive (+) and negative (-) terminals with a metal object such as wire. Do not transport or store the Battery Pack together with metal objects such as necklaces, hairpins, etc.
- Do not pierce the Battery Pack with a nail or other sharp objects, strike it with a hammer, or stand on it.
- Do not strike or throw the Battery Pack.
- If the Battery Pack 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.

OTHER HAZARDS

Store the Battery Pack in a location where children cannot reach it. Do not put the Battery Pack 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. Do not immerse the Battery Pack in water / seawater and do not allow it to get wet. The humidity protection conforms to the norms of IP20.

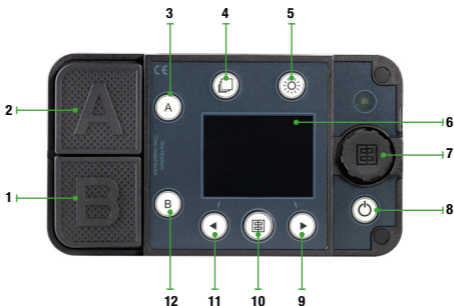
TEMPERATURE PRECAUTIONS

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 Pack near a heat source (+60°C or higher) such as an open fire, a heater or direct sunlight. If the Battery Pack 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 pack.
- Do not fire flashes from short distances directed towards a person.
- Do not use near flammable / explosive material.

CONTROL PANEL



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CONTROL PANEL

1. Outlet B
2. Outlet A
3. Outlet A activation
4. Menu access
5. Modelling Lamp button: short push (on/off) / long push (menu access)
6. 4.3" OLED Display
7. Scroll button
8. Unit switch On /Off
9. Menu navigation button (right / exit)
10. Flash test button
11. Menu navigation button (left / back)
12. Outlet B activation

DISPLAY PANEL – DASHBOARD

The main dashboard displays essential information about one or two head settings.

The colours of the upper bar correspond to the group number : blue for group 1, yellow for group 2, red for group 3 and green for group 4. It is possible to switch between black or white menu background colour.

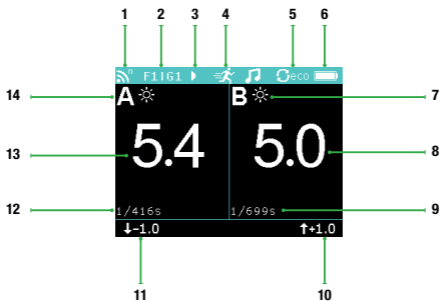
The dashboard changes automatically between the one and two head view depending on the number of heads switched on. Settings that are not enabled are not displayed in the dashboard. For example, if the modelling lamp is switched off, the modelling lamp symbol does not appear on the dashboard.

Dashboard views:



One head view

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Two head view

1. Skyport Synchronisation
 2. Skyport frequency channel and group number
 3. Photocell status
 4. Action mode
 5. Eco mode
 6. Battery charge status
 7. Power outlet B modelling lamp status
 8. Power setting of the B outlet in f-stop equivalent
 9. Flash Duration value of the B outlet*
 10. Increase selected outlet by 1 f-stop
 11. Decrease selected outlet by 1 f-stop
 12. Flash Duration value of the A outlet*
 13. Power setting of the B outlet in f-stop equivalent
 14. Power outlet A modelling lamp status
- * The flash duration is only visible at normal x-sync shutter speeds (1/125 or 1/250s depending on the DSLR camera).

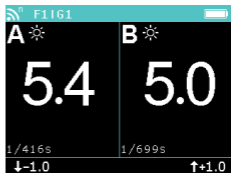
TTL MODE

The TTL (Through the Lens Metering) mode allows you to access fully automatic exposure setups according to your digital camera. The TTL values are automatically saved when passing to the manual mode.

To operate the unit in the TTL mode, please use the radio remote Elinchrom Pro and activate the TTL function.



One head view



Two head view

LED MODELLING LAMP

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Modelling lamp settings are accessible through a dedicated Modelling Lamp button (5).

CONTROLLING THE LED / MOD LAMP MENU ACCESS


- A short press on the modelling lamp button turns on the LED lamp of the ELB 500 Head.
- A long press on the modelling lamp button opens the modelling lamp setup menu and switches on the modelling lamp.

USE OF THE A AND B BUTTONS

- To enter into the modelling lamp menu, press and hold the modelling lamp button.
- To enable / disable the LED of the A or B outlet, use a long press on the A / B buttons.
- To select the A or B outlet LED, use a short press on the A / B buttons, and turn the scroll button for individual LED power settings.

MODELLING LAMP MENU FEATURES

Enter the Modelling lamp setup menu with a long press on the modelling lamp button. This operation will also switch on the modelling lamps. You can directly adjust the total power of the two modelling lamps by turning the scroll button. To select the modelling lamp of the A or B outlet separately, press the A or B button.

To exit the the menu press the button. 

MODELLING LAMP SETTINGS

To access modelling lamp mode prop/free, VFC (visual flash control) and the mod. lamp timer press the button (10).

With the scroll button go to the feature (turning) you want to modify.

Now press the scroll button to activate the option and select (turning) the option and press to confirm.

MOD.LAMP SETUP		
A 4.1	B 4.3	
Mode	Free	
VFC	On	
Timer	On 15s	
BACK	LED POWER	EXIT

MENU OPTIONS		DESCRIPTION	HOW TO
Mode		Please choose between the free or the proportional mod. lamp value setting.	Shortcut mod. lamp mode: short press on the scroll button.
	Free	Power value of the modelling lamp is independent of the flash power value.	Use the scroll button to set the value, the setting will be automatically stored.
	Proportional	Power value of the modelling lamp changes with the flash power values.	
VFC	On / Off	Visual Flash Confirmation.	
Timer	On / Off	The mod. lamp switches off after the timeframe set by the timer value.	
	Timer value	Modelling lamp timer, in sec	

MENU FEATURES

DISPLAY PANEL – SETUP MENU

The colors of the setup menu correspond to the group number setting, as in the main dashboard: blue for group 1, yellow for group 2, red for group 3 and green for group 4.

To modify the menu settings, use the scroll button to navigate and then press to confirm. In “Extras” the background of the user interface can be switched from black to white.

Radio	System	Skyport	Odin 2	
	Mode	Off	Normal	Speed
	Group	1-4		
	Frequency	1-20		
Flash mode	Action	On	Off	
	Photocell	On	Off	
	Recycling time	Fast	Eco	
Extra	Auto stand-by	Off	1-59 min.	
	Auto-off	Off	1-60 min.	
	Ready tone	On	Off	
	Keyboard click	On	Off	
	Background	Black	White	
Info	Friendly name	Set through computer software.		
	Firmware rev.	*****		
	Serial number	*****		
	Life time	In hours (hh:mm:ss)		
	Flash count	Total flash number		

RADIO FEATURES & SETUP

The radio setup mode allows you to choose which transmitter you would like to use. The manual / TTL functionalities are supported according to the transmitter type.

The ELB 500 TTL unit supports the Transmitter PRO (TTL functionality is only available after firmware update), Elinchrom Pro as well as the Odin2 (Phottix) transmitters with TTL.

SKYPORT MODE

The Skyport options allow you to select the pulse speed (Normal or Speed Sync mode) of the synchronisation signal and to define group and channel settings.

SETUP MENU		
Radio	System	Skyport
	Mode	normal
Flash mode	Group	1
	Frequency	1
Extras		
Info		
BACK		EXIT

The “normal” synchronization mode is good for long distances. The “speed” sync mode might be needed for future cameras which may require a faster communication. The distance range reduces by approximately 50% in speed sync mode. Any change in these settings must be applied also to the EL-Skyport Transmitter to enable communication between the devices!

Note: We suggest to use the Normal sync mode, which is compatible with most DSLR camera.

Finally you can choose in which group and frequency you would like to work. Change group settings to have better control for example between main light and second lights. Change frequency channel to avoid interference.

PHOTTIX MODE

In the TTL mode, the Odin2 (Phottix) remote is also supported. The setup menu is styled accordingly to the current Odin2 interface (see the figure next page).

SETUP MENU		
Radio	System	odin II
	Mode	canon
Flash mode	ID	0000
	CH	32
Extras	Head-A Group	A
	Head-B Group	B
Info		
BACK		EXIT

FLASH MODE SETUP

ACTION MODE

When the Action mode is activated, the unit offers a fast optimised flash duration, to freeze motion.

SETUP MENU		
Radio	Action	off
Flash mode	Photocell	off
	Recycling time	fast
Extras		
Info		
BACK		EXIT

RECYCLING TIME

The flash mode menu enables you to set the recycling time to fast or to eco, to save the battery.

EXTRAS

Extra settings include the power setting, the audio setting options and the background can be switched from black to white.

Power settings help you define standby and auto-off to save energy.

The audio options allow you to adjust the volume of the ready and the key click tones, enabling you to work silently if necessary.

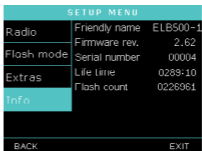
SETUP MENU		
Radio	Auto stand-by	off
Flash mode	Auto-off	off
	Ready tone	off
Extras	Keyboard click	off
	Background	black
Info		
BACK		EXIT

INFO

The Info section allows you to see the friendly name of the unit and a number of current usage statistics, such as lifetime of the unit and the use of the flashtube.

If you want to personalise the name of your unit, use the Elinchrom App for IOS or the WIN / MAC computer software. The name will appear in the Info section (friendly name).

Shortcut: to see the friendly name of the unit when working with the dashboards (outside of the setup menu), use a long press on the Scroll button (7).



The screenshot shows a menu titled 'SETUP MENU' with a teal header. The menu items are: 'Radio' (Friendly name: ELB500-1, Firmware rev.: 2.62), 'Flash mode' (Serial number: 00004), 'Extras' (Life time: 0289:10, Flash count: 0226961), and 'Info' (highlighted in teal). At the bottom, there are 'BACK' and 'EXIT' options.

SETUP MENU		
Radio	Friendly name	ELB500-1
	Firmware rev.	2.62
Flash mode	Serial number	00004
Extras	Life time	0289:10
	Flash count	0226961
Info		
BACK		EXIT

Note: This feature is available in the next Skyport software release planned for 2018/2019.

ELB 500 BATTERY

ELB 500 LI-ION BATTERY FEATURES

The Li-Ion Battery Pack is intended to be used with the ELB 500 TTL flash unit **ONLY**. Please use **ONLY** the original Elinchrom Lithium Battery Charger!

Store the ELB 500 battery always disconnected from the flash unit.

The number of flashes may vary from battery to battery (due to ageing, storage conditions etc.). Used Batteries may need to be recycled. Check your local regulations!

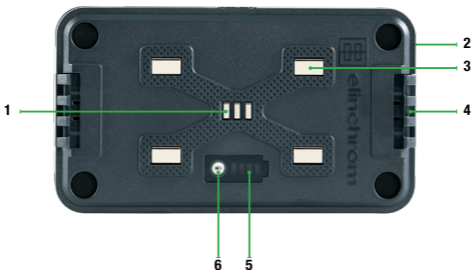
AUTOMATIC FAULT DETECTION

The Battery is equipped with a Smart Protection System enabling automatic disconnection of the Battery in case of temperature, voltage or current range, excessions.

NO MEMORY EFFECT

- Charging can be applied and stopped at any charge level.
- There is no negative impact on Li-Ion cells caused by partial charge and discharge cycles.

ELB 500 BATTERY PACK FUNCTIONS



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1. Signal interface between the ELB 500 battery and the ELB 500 TTL unit
2. ELB 500 battery charger socket
3. Battery terminals (fully symmetrical)
4. Locking mechanism
5. State of charge LED Indicator
6. Battery recovery button

BATTERY PACK CONNECTION INSTRUCTIONS

The Li-Ion Battery Pack is intended to be used with the ELB 500 TTL flash unit ONLY.

TO CONNECT YOUR BATTERY TO THE ELB 500 TTL UNIT:

1. Place the ELB 500 unit on a flat, dry and clean surface.
2. Place the charged Li-Ion ELB 500 Battery Pack on a clean surface
3. Place the ELB 500 housing over the ELB 500 Battery Pack.
4. Press smoothly down onto the ELB 500 housing until you hear two clicks (left / right)
5. Visually check, that the Battery Pack is well connected on both sides of the unit.

TO DISCONNECT THE BATTERY PACK FROM THE ELB 500 TTL UNIT:

1. Place the ELB 500 TTL pack on a flat, dry and clean surface.
2. Press the locking buttons on both sides and lift the unit as shown in the picture below.

CHARGING INSTRUCTIONS

ELB 500 LI-ION CHARGER (19277)

- Connect the ELB 500 Charger (19277) first to the Li-Ion battery and then to the mains.
- Charge progress is displayed by a flashing green LED.
- The constant green LED indicates that the battery is completely charged.
- The ELB 500 Battery charges in approximately 100 minutes.






CHARGE DURATION

The ELB 500 Battery charges to 90% in approximately 100 minutes. However, the charge duration may vary depending on the battery's initial state of charge.

CAUTION! The charge duration will be significantly longer if the battery has been left completely discharged for weeks.

STATE OF CHARGE INDICATION

The battery includes a monitoring circuit which shows the available capacity of the battery when the state of charge button is pressed.

80 – 100 %	
60 – 80 %	
40 – 60 %	
20 – 40 %	
< 20 %	

CHARGING / DISCHARGING RECOMMENDATIONS

- The Battery Pack can be used / discharged at ambient temperatures from -10 °C to +60 °C.
- The Battery Pack can be charged at ambient temperatures from 0 °C to +45 °C. Charging is not recommended at temperatures below 0 °C.

LI-ION CAR CHARGER (11038)

- Connect the Li-Ion Car Charger (11038) first to the 12V (or 24V) power socket and then to the Li-Ion battery.
- Charge progress is displayed by a red LED.
- After approx. 180 minutes of charging, a green LED indicates that the battery is charged up to 95%

ELB 500 HEAD

ELB 500 HEAD CHARACTERISTICS

The new ELB 500 Head features an ultra-compact design with flexible 2.5 m cable, and 7 mm umbrella shaft.

Enjoy the universal use: a single head for seamless transition from lower shutter speeds up to Hi-Sync and back, both in TTL and manual modes!

Experiment with the full range of Quadra accessories thanks to the Q mount. Use Quadra Reflector Adapter MK-II (26342) to use the full sized Elinchrom accessory system.

Implements a daylight 14W LED Modelling lamp with 5200 K and 90 CRI, adjustable in 40 steps.

ACCESSORY REMOVING / FITTING ADVICE

1. Always switch the power pack off, before attaching accessories.
2. Mount the ELB 500 head onto a tripod and lock the security screw.
3. Press the ELB 500 head locking knob firmly down and turn the reflector to the left.
4. Now pull the reflector from the head and replace with another reflector.

FLASHTUBE REPLACEMENT

1. Switch the power pack off.
2. Disconnect the flash cable from the power pack.
3. Place the Head horizontally on a rigid, clean and dry surface.
4. Allow the flashtube to cool down.
ALWAYS USE A PROTECTIVE GLOVE TO REMOVE THE FLASHTUBE!
5. Hold the Head firmly whilst removing and replacing the flashtube.
6. Remove the security spring from the flashtube and pull the flashtube firmly out of the terminals.
7. If the tube is broken, use security gloves to avoid cutting yourself and use an insulated tool to pull out the electrodes. Never touch the metal electrodes.
8. Now replace with a new correct original Elinchrom flashtube. An insulated tissue or security gloves **MUST BE USED**. Any contact with your fingers on the tube, can cause dark markings on the tube when used.
9. Check that the tube is correctly aligned (central) and that the trigger contact is gripping the tube with the security wire.
10. Re-connect and test the head as usual.

TROUBLESHOOTING

SOFT RESET

To reset all settings to default values, push the MENU (4.) and the LEFT buttons (11.) at the same time and hold for at least 1 second. The unit will reboot and will clear all working parameters. This will not reset the counter in the “Info” menu.

WARNING MESSAGES

Wait until the unit has cooled down. The unit will switch back to the normal operation as soon as the temperature decreases to a normal working level.



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EMPTY BATTERY

When the battery is empty, the EL bouton is blinking red. Plug the charger and wait about 4 min. until the unit shutdown.

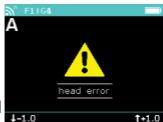
Press to switch-on the unit.



HEAD ERROR

The “head error” message appears if a Quadra head is connected which is not the ELB 500 head.

Please ensure that only the ELB 500 head is used with the ELB 500 TTL unit.



Never plug any head of other brands into this unit, apart from dangerous voltages, this would destroy the unit and the head!

ERROR TABLE

ERROR NUMBER	DESCRIPTION	SOLUTION
1	Capacitors over voltage	Restart after 2 min.-> Service
4	Charge Timeout	Restart after 2 min.-> Service
6	Unstable voltage (Charge hold error)	Restart after 2 min.-> Service
13	Battery current fault (battery current overtime)	Restart after 2 min.-> Service
31	Ignition voltage error	Restart after 2 min.-> Service

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BATTERY TROUBLESHOOTING

The Battery is equipped with a Smart Fault Detection System allowing it to disconnect automatically to prevent damage to the Li-Ion cells. If the fault cause is removed, the battery will return to the normal mode automatically. PLEASE CONTACT YOUR DISTRIBUTOR if it's impossible to recover from the fault or the battery is often displaying a fault mode.

LI-ION CHARGER TROUBLESHOOTING

NO LED'S ARE LIGHTING UP: The charging process is not possible or the charger is out of order. Please contact your local EL distributor.

MAINTENANCE

The ELB 500 TTL power pack and heads require only very little maintenance. To ensure secure operation please check the following points regularly before connecting the head to the power pack:

- Ensure that the contacts of the flash head connector are not burned or corroded.
- The flash cable should not have any marks or cuts. The high voltages carried can be dangerous!
- Ensure that the plug-in flash tube is correctly fitted.
- Do not use water to clean dust and dirt from the head.
- Ventilation grids must be clean and free of any tape etc.

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CAUTION!

Under no circumstances open any part of the equipment. The ELB 500 TTL 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 ELB 500 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>

STORAGE AND TRANSPORTATION RECOMMENDATIONS

To improve the lifetime and security of your battery, please disconnect the ELB 500 battery for storage. To avoid progressive battery discharge (so called SELF-DISCHARGE*) which can cause a DEEP DISCHARGE MODE**, please do not store fully charged battery packs for more than 3 to 6 months without use. If you have several batteries please use them all or alternate among them.

Note: Store only recharged batteries and disconnected from the power pack.

***SELF-DISCHARGE MODE**

Small losses of charge are observed during storage of a charged battery (self-discharge), which is a natural process.

****DEEP DISCHARGE MODE**

If the battery is not recharged over a long period of time (several months or more), the self-discharge process may progressively cause the battery to enter a state of DEEP DISCHARGE.

RECOVERY FROM THE DEEP DISCHARGE MODE

Plug the charger into the battery. After approximately 6 min the battery will wake up and the charging process will restart normally.

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 30 minutes after the mains cable has been removed so the unit has cooled down. Never drop a flash unit; the flashtube and internal components could break.

Please refer to our separate TRAVELLING BY AIR AS A PASSENGER Instructions (73042) for current transportation regulations.

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. Used Batteries may need to be recycled. Check your local regulations!

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).

TECHNICAL DATA OF ELB 500 TTL POWER PACK

Product Name and article	ELB 500 TTL (10232.1)
Accessories	ELB 500 Li-Ion Battery (19297) ELB 500 Head (20190) ELB 500 Charger (19277) Li-Ion Battery Car Charger (11038) Snappy for ELB 500 TTL (19254)

EN

Main features

Flash capacity	500 Ws/J
Power distribution	Full asymmetry
F-Stop (1m, 100 ISO, reflector 48°) ELB 500 Head	100%: 64.8
Power range ws/J	7.1 - 500
Power range f-stop, manual mode	7 f-stop in 1/10 increments
Power range f-stop, TTL mode	7 f-stop in 1/3 increments
Flash modes	TTL / Manual
Action mode, on/off	Optimised fast flash duration

Radio receiver (built-in)	Skyport protocol (20 frequency channels, 4 groups) / Phottix Odin II (27 frequency channels, 4 groups)
Recycling FAST at full power	2 sec.
Recycling ECO at full power	3.5 sec.

Flash specifications

Best flash duration in Action mode at min. power (T0.5)	1/20 000 (7.1 ws)
Flashes out of one charged battery at max. / min. power	400 / 28000
Color temperature in K at max. power	Action 5700 Standard & HSS 5300
Color stability (in normal mode)	+/- 200 over 7 f-stops
Power stability	0.05%

LED Modelling lamp

Modelling lamp power	14W in 40 adjustment levels, 6.3 - 2.3
Color temperature in K at max. power	5200
Modeling lamp modes	On / off, free, prop, timer 1-60 s, VFC

Triggering

Optional remotes	Manual only: Skyport transmitter Plus TTL and manual: Elinchrom Pro / Phottix Odin II
Optical triggering distance	Indoor: 15m Outdoor: 10m line of sight
Sync socket	3.5 mm jack
Sync voltage	5V

Battery Pack

ELB 500 Li-Ion Battery / 19297	14.4V / 5 Ah / 72 Wh
Charger input voltage range, AC	100 / 240V, 50-60 Hz
Charging time to 90%	100 min. (ELB 500 Battery)

Mechanics

Dimensions in cm / inches (WxDxH)	Unit: 16.3 x 9 x 13.8 / 6.4 x 3.6 x 5.4 Battery: 16.3 x 9 x 4.9 / 6.4 x 3.6 x 1.9 Unit + Battery: 16.3 x 9 x 18.1 / 6.4 x 3.6 x 7.12
Weight in kg / lbs, unit alone	1.7 / 3.83
Weight in kg / lbs, battery	0.73 / 1.60

LEGAL INFORMATION

FCC CLASS B COMPLIANCE STATEMENT

Product name	ELB 500 TTL (10232.1)
Accessories	ELB 500 Li-Ion Battery (19297) ELB 500 Head (20190) ELB 500 Li-Ion Charger (19277) Li-Ion Car Charger (11083)
Trade name	ELINCHROM
Name of responsible party	ELINCHROM LTD Avenue de Longemalle 11 1020 Renens VD / Switzerland
Phone	+41 21 637 26 77
Fax	+41 21 637 26 81
Email	support@elinchrom.ch

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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.
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.

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. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device

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:

1. Il ne doit pas produire de brouillage; et
2. 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 Declaration of Conformity of this product, please, visit our website http://www.elinchrom.com/support_downloads.php

DOWNLOAD THE ELB 500 TTL USER MANUAL

Please get the complete user guide at this link:

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!

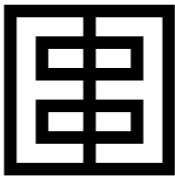
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LI-ION BATTERY SECURITY

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