



elinchrom[®]
creative image lighting technology



**OPERATION MANUAL
GEBRAUCHSANLEITUNG
MANUEL D'UTILISATION
MANUAL DE FUNCIONAMIENTO
MANUALE D'USO**

BX 250Ri / BX 500Ri



English / Deutsch / Français / Español / Italiano

Elinchrom LTD

BXRi 06.04.2010 (73088)

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P.S: Technical data subject to change.

The listed values are guide values which may vary due to tolerances in components used.

Dear Photographer,

Thank you for buying your BX-Ri compact 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 controls both during and after manufacture. We trust that it will give you many years of reliable service.

All BX-Ri flash units are manufactured for the studio and location use of professional photographers. Only by observance of the information given, can you secure your warranty, prevent possible damage and increase the life of this equipment.

BX 250Ri / BX 500Ri Compact Flash

The quality of light and exceptional performance is the result of long research, application of demanding principles, the long experience of ELINCHROM in lighting products for the studio and the utilisation of the latest technology in this area.

Totally integrated to the range of ELINCHROM flashes, the BX 250Ri - BX 500Ri units maintain the traditional look and function that is ELINCHROM.

The controls provide continuously variable adjustment of the modelling lamp and the flash power with precision over 5 f-stop, from full power 1/1 to 1/16 th.

FCC Class B Compliance Statement

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 and meets all requirements of the Canadian Interference-Causing Equipment Regulations. 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 instruction manual, 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 not cause harmful interferences to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interferences by one or more of the following measures:

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

ELINCHROM S.A. LTD. is not responsible for any radio or television interference caused by unauthorised modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by ELINCHROM S.A. LTD. The correction of interference caused by such unauthorised modification, substitution or attachment will be the responsibility of the user.

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.

Product name:	Professional Studio Flash unit
Trade name:	ELINCHROM
Model number(s):	BX 250Ri / BX 500Ri
Name of responsible party:	Elinchrom LTD Av. De Longemalle 11 1020 Renens / Switzerland
Phone :	+41 21 637 26 77
Fax:	+41 21 637 26 81

ELINCHROM S.A. LTD. declares that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC rules, and that all the necessary steps have been taken and are in force to assure that the production units of the same equipment will continue to comply with the Comissions requirements.

Disposal and recycling



This device has been manufactured to the highest possible degree from materials which can be recycled or disposed of in a manner that is not enviromentally damaging. The device may be taken back after use to be recycled, provided that is returned in a condition that is the result of normal use. Any components not reclaimed will be disposed of in an environmentally acceptable manner.

If you have any questions on disposal, please contact your local supplier or your local ELINCHROM agent (check our website for a list of all ELINCHROM agents world wide).

CE marking



The shipped version of this device complies with the requirements of ECC directives 89/336/ECC «Electromagnetic compatibility» and 73/23/ECC «Low voltage directive».

CE Statements for EL-Skyport

This device has been tested and found to comply with the requirements set up in the council directive on the approximation of the law of member states relating to EMC Directive 89/336/EEC, low Voltage Directive 73/23/EEC and R&TTE Directive 99/5/EC.

Notational Conventions

The meaning of the symbols and fonts used in this manual are as follows:



Pay particular attention to text marked with this symbol. Failure to observe this warning endangers your life, destroys the device, or may damage other equipment.

According to safety regulations, we draw your attention to the fact that these electronic flash units are not designed for use outdoors, in damp or dusty conditions and should not be used after being exposed to sudden temperature changes causing condensation. They must always be connected to an earthed (grounded) mains supply.

On no account should any object be inserted into the ventilation holes.

The units may retain an internal charge for a considerable time even though disconnected from the power supply.

- Do not use without permission in restricted areas (like hospitals, etc.).
- Do not use in explosive environments.

Flash tubes and modelling lamps

- Flash tubes and modelling lamps in use are very hot!
- Never touch a flash tube or lamp before the unit has cooled down and is disconnected from the mains (min 30mn).
- Do not fire flashes from short distance (less than 1m) directed at a person and avoid looking directly into the flashlight!
- Keep a min. 1m distance from any flammable materials.
- Keep generally distance to other operating units.

Transport

- Transport the flash unit with care, either in its original packaging or other corresponding packaging fit to protect it against knocks and jolts.
- Transport only in complete discharged conditions. Wait a minimum 30 minutes after disconnecting from the mains supply before packaging and transportation.
- Never drop the flash unit (danger of flashtube breakage)

Power cable

To guarantee safe operation, use the cable supplied.

- The cable has to be HAR-certified or VDE-certified. The mark HAR or VDE will appear on the outer sheath.
- The cable set must be selected according to the rated current for your flash unit.
- Do not use a multiple adapter to connect one or more flash units per single mains socket.



- Flash systems store electrical energy in capacitors by applying high voltage.
- For your safety, never open or disassemble your flashes.
- Only an authorised service engineer should open or attempt to repair the units.
- Internal defect charge capacitors may explode whilst the unit is in use, never switch on a working flash unit, once it has been found to be faulty.
- Do not switch on the flash unit without mounted modelling lamp or flash tube due to high voltage at the contacts! Life Danger!

The following basic features are easy to access and they are similar to previous Elinchrom compact flashes.

- Flash power up and down buttons
- Modelling lamp power up and down buttons
- Modelling lamp prop / free / off button
- Photocell on / off button
- Ready charge beep on / off button
- Test-flash button
- 3.5 mm synchronisation socket
- NEW EL-Skyport Wireless Triggering & Remote. Note: To function the integrated Transceiver requires the optional EL-Skyport Transmitter.

Additional advanced programmable features

All the new features and functions can be customised.
Please read carefully how to configure the new features.

Visual-Flash-Control (VFC)

The VFC mode switches off the modelling lamp whilst the flash unit recharges after a flash has been released. This function gives a visual check that all the studio flash units have fired. The VFC mode can be activated together with the Ready Charge beep for maximum control.

Proportional modelling lamp setup (PMS)

When using compact flashes of different powers, (e.g. 250 & 500 ws) the modelling lamp can be reduced to -1 f-stop for better visual proportionality.

“Eye-Cell” automatic & manual mode

Some cameras may release before the main-flash, several pre-flashes to avoid the red eye effect. In this case a normal photocell would respond and release a flash with the first pre-flash of the camera. To avoid incorrect synchronisation the intelligent Elinchrom Eye-Cell detects camera pre-flashes. The Eye-Cell function can be activated in “Automatic Mode” or in “Manual Mode”, even configuring LED pre-flashes. (Only for advanced users, read carefully the instructions before changing any parameters).

Charge ready beep setup

The user can customise the Charge Ready Beep from short to long Beep signals. The acoustical signal length can be set from 70 to 490 m/seconds.

EL-Skyport wireless triggering & remote control

To use the wireless triggering and changing flash power settings, or to switch on/off the modelling lamp, requires the optional EL-Skyport Transmitter.

“Group” and “Channel Frequency” settings can be customised on each BX-Ri unit.

Power and modelling lamp steps setup

Normally flash / modelling lamp power adjustments are in 1/10th steps per touch. These steps can be changed from 1/10th to 7/10th or to 1 f-stop.

Temperature controlled FAN management

The cooling fan switches ON automatically if the unit temperature increases. The microprocessor controls the unit temperature and the fan. If the ventilation is blocked or the fan does not work, the display shows E8.

The BX-Ri (Multivoltage) units are adapted for operation on 90 - 260V/50 - 60Hz. Before connecting for the first time, check to make sure that your Modelling Lamp coincides with the voltage. They must always be connected to an earthed (grounded) mains supply. All BX-Ri units have a bayonet mount and locking ring fitting, for fixing all Elinchrom and Prolinca accessories.

Mount the unit securely to a suitable stand or support.

Remove the black protective cover. DO NOT operate the unit without first removing the black protective cover.

Operating instructions

1. Check that the modelling lamp voltage is correct.
2. Check that the mains switch (2) is in the OFF ("O" position).
3. Insert the mains cable into the MAINS INLET (1) and connect this to a FULLY EARTHED OUTLET
4. Using the mains SWITCH (2), switch the unit ON ("I" position).
5. Connect the synchro cord using the socket (5).
6. Select the power with the touch pad (10)



Switch and fuse

Mains supply

Use only the Elinchrom mains cord. Switch off the unit before the mains cord is connected to the mains plug.

Mains fuse

Standard type 5 x 20 mm, use only tempered fuse 8 AT (code 19022) for BX-Ri.

Note: Before exchanging a blown fuse, switch off the unit and remove the mains cable. Open the little drawer in the mains plug with a screwdriver and replace the fuse with the spare fuse, which is placed in its support in this drawer. (N.B. Please don't forget to check the correct rating of the fuse!).

Fuse for modelling light

Fast type 5 x 20mm, 2.5 AF

Switch off the unit and replace the blown fuse with a new one of the correct rating.

The fastblow fuse will protect the triac of the modelling lamp circuit, the lamp and therefore the flash tube.



Overview of controls

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Mains inlet socket includes the mains fuse (slow blow) 2. Mains on/off switch 3. Modelling lamp fuse 4. Open flash / Test button 5. Synch socket / 3.5 mm jack / low 5V sync voltage 6. Digital multi display and charge / discharge indicator* 7. Charge Ready Beep on/off – programmable* 8. Eye-Cell on/off – programmable* 9. Eye-Cell receptor 10. Power up & down buttons and scroll /program buttons for advanced features setup* | <ul style="list-style-type: none"> 11. Modelling lamp on/off-free-prop – programmable* 12. Modelling lamp up & down buttons and scroll /program buttons for advanced features setup* 13. Tilt head with extra umbrella fitting 14. Handle with support for spare fuses 15. Standard stand socket 5/8 inch 16. Centred umbrella tube for EL Umbrellas – 7 mm diameter 17. Knurled clamp screw |
|--|---|

*The touches on this display are multifunctional to program / scroll the advanced features and to setup the integrated EL-Skyport Transceiver. For programming please read carefully the following pages!

How to „Reset“ the BX-Ri

In case you need to „RESET“ the BX-Ri to the manufacturer settings please follow the steps below:

1. Switch the unit “off“
2. Press both flash power up / down buttons (10) at the same time and switch the unit on
3. The Digital LED multi display (6) flashes in fast mode
4. Do not continue to press the touches, the resetting procedure is completed

Modelling lamp features & setup

Modelling lamps and fuses for 110 V & 230 V

Unit	Modelling lamp 110V	Modelling lamp 230V	Socket	Fuse
BX 250Ri	100W krypton / 23006	100W krypton / 23002	E27	2.5AF / 19033
BX 500Ri	100W krypton / 23006	100W krypton / 23002	E27	2.5AF / 19033

Modelling lamp modes

- > **Setting:**
- Press “Free/Prop” button to set Modelling lamp ON to proportional mode or OFF
 - Press “Modelling” up or down button to set Modelling lamp to free mode, press “Free/Prop” to switch Modelling lamp OFF.
- > **LED Indication:**
- Prop-LED is ON: proportional Modelling lamp setting.
 - Free-LED is ON: free Modelling lamp setting.
 - Prop and Free-LED’s are OFF: Modelling lamp is inactive.

Setup Visual-Flash-Control (VFC) mode

> Enter VFC setup :

1. Press “Free/Prop” push button for more than 2 seconds, until the display shows “F.X” (“X” is 0 or 1) to enter into the Modelling lamp setup menu.
2. Use the “Flash-Power” up and down button to change setting:
 - “F.0”: Visual-Flash-Control = OFF. Modelling lamp remains ON after flash.
 - “F.1”: Visual-Flash-Control = ON. Modelling lamp switches off during recharging.
3. The display switches back to normal mode after approx. 4 seconds if no button is pressed. The settings are automatically stored.
4. Standard setting is “F.0”, VFC = OFF

Proportional modelling lamp setup (PMS)

(When using heads of different maximum power)

> Enter PMS setup:

1. Press “Free/Prop” button for more than 2 seconds to enter into the Modelling lamp setup menu. The display shows “F.X”, then press the “Free/Prop” button once more to the PMS menu, the display shows “-.X”
2. Use the “Flash-Power” up and down button to change the settings:
 - “-.0”: PMS = OFF, Modelling lamp is set to maximum.
 - “-.1”: PMS = -1 f-Stop, Modelling lamp is reduced by 1 f-stop.

The flash / modelling lamp power is displayed in f-stop compatible formats from 2.3 – 6.3 for BX 500Ri. The flash power difference from (e.g.) 5.3 – 6.3 is 1f-stop.

The power range is 5 f-stops variable in 1/10th intervals which can be customised to (e.g.) 5/10th etc.. During charging or discharging, the display «flashes». In case of overheating or malfunction, the display shows «ER» for error.

Display	2.3	3.3	4.3	5.3	6.3
Joules / Ws	31	62.5	125	250	500

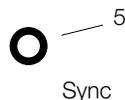
Note: The «BX 250Ri - BX 500Ri» units have an integrated discharge system, protected by a thermal switch. To avoid overheating, lower power settings of more than 2 f-stops by discharging manually with the «Test» touch button.

Synchronisation socket

Standard socket with 3.5 mm mini-jack (5).

N.B. Do not link ELINCHROM units by cable to other manufacturers sync. outlets.

ELINCHROM uses the low voltage (5 V) for security reasons.



Open flash «test»

Having pressed the touch pad to release a flash, the green «READY» light will appear again once the unit is recharged. If the green light does not appear the charge system could be defective.

Please contact and send to an authorized Elinchrom service centre.

Test and Ready (4)



Eye-Cell – advanced photocell sensor

The standard photocell can be remotely triggered by another flash unit!

The BX-Ri photocell is specially designed to work in studio light conditions

Direct light or other strong light sources may reduce the sensitivity of the cell.

Intelligent Photocell-Sensor

The Eye-Cell offers new features and can detect camera pre-flashes (anti red eye effect). To customise the pre-flash settings, please follow the instructions at paragraph 3.

Eye-Cell Functions

1. Standard Photocell mode
2. Eye-Cell pre-flash mode
3. Setup number of pre-flashes manually or set to automatic detection
4. Setup pre-flash timings! **Only for advanced users!**

1. Using the Standard Photocell Mode

Push "Cell" button, for less than 0.5 seconds to switch on/off the standard Photocell sensor.

LED Indication:

Cell LED is ON: Active photocell.

Cell LED is OFF: Inactive photocell.

In "on" mode, the Photocell sensor will trigger the flash unit with any recognized flash impulse.

2. Eye-Cell Pre-Flash Mode

(This is only activation, not the setup. To Setup, follow step 3)

Press the Cell button for approx. 1 second; the status LED starts flashing.

LED Indication:

Cell LED flashes in slow intervals; the Eye-Cell pre-flash mode is activated.

Cell LED is OFF; the Eye-Cell pre-flash mode is inactive.

Function:

In active mode the unit ignores up to 6 anti-red-eye flashes and synchronizes / triggers only with the last main flash. This is useful where the anti-red eye pre-flashes can't be switched off.

3. Automatic Eye-Cell Pre-Flash Setup "c.0"

Press the Cell button for 4 seconds until display shows "c.X" for automatic setup.

("X" is the number of pre-flashes including main flash from 1 up to 7)

Scroll with the "Flash-Power" up and down button to "c.0"

Now use the camera-on flash and release a test exposure. The camera will release several anti-red eye flashes (if activated). The BX-Ri Eye-Cell detects the number of flashes the camera released and stores the value automatically, and switches back to Eye-Cell Pre-flash mode. Ready to use.

⚠ If the cell button was pressed down for 6 seconds the "Setup Pre-Flash Timeframe" is activated and the display shows t.4 or b.1 (standard settings). Do not change these values; this would deactivate the "Automatic Eye-Cell Mode"! Wait a few seconds, the unit switches back to the standard mode and the display shows the flash power settings. Should the t.4 or b.1 values have been changed, please set the "Setup Pre-Flash Timeframe" back to standard settings as described at paragraph 4.

4. Manual Eye-Cell Pre-Flash Setup

- A. Press Cell button approx. 4 seconds until display shows “c.X”.
 (“X” is the number of settable pre-flashes plus the main flash from 1 up to 7)
- B. With “Flash-Power” up and down button, set the number of pre-flashes incl. mainflash.
- C. The display switches back to normal mode after approx. 4 seconds if no button is pressed.
The settings are automatically stored.
- D. Cell LED flashes in fast intervals if the Eye-Cell pre-flash mode is active.

> Recall The Eye-Cell Settings:

If you want to recall and control the actual Eye-Cell pre-flash setting, repeat the steps A to D.

5. Setup Pre-Flash Timeframe (only for advanced users)



Change manufacturer settings only in case of problems with the auto-detection of your camera pre-flashes.

> Setting:

- Press Cell button for more than 6 seconds until display shows “t.X” (“X” is the value from 1 to 8)
- Use the Cell button to toggle between “t.X” and “b.X” settings.
- Use the “Flash-Power” up and down buttons to change the values.
- The display switches back to normal mode after approx. 4 seconds if no button is pressed.
The settings are automatically stored.
- Standard settings are:
---> t.4 (t. is the time window of all released anti red-eye flashes incl. the main flash).
---> b.1 (b. is the minimum time delay between two anti red-eye flashes incl. the main flash).

Pre-Flash Timeframe Setting “t.X

t. is the time window of all released anti red-eye flashes incl. the mainflash. Change setting only when the pre-flash procedure is longer than the manufacturer settings.

Set the value t. between 1 and 8 to ensure that all pre-flashes including the main flash are inside the time frame.

Value t	1	2	3	4	5	6	7	8
Time /seconds	1	2	3	4	5	6	7	8

Pre-Flash Block Time Setting “b.X”: (Only For LED Anti Red-Eye Cameras)

Pre-Flash Block -Time: set the minimum delay between each pre-flash.

Chose values between 0 and 7.

Value b	0	1	2	3	4	5	6	7
Time: m/seconds	0	2	4	6	8	10	12	14

This feature creates a melody if settings are different between each unit to improve the acoustical recognition that all the flashes have fired and recycled.

Charge Ready Beep Setup

- **Setting**

- Press "Audio" button, less than 0.5 seconds to switch the Charge Ready Beep (ON / OFF)

- **LED Indication**

- Charge Ready Beep LED is on: Audio is active
- Charge Ready Beep LED is off: Audio is inactive (Mute)

- **Changing Charge Ready Beep -On-Time Setting**

- Press Audio button for more than 2 seconds until the display shows "A.X" ("X" is the value from 1 up to 7)
- Use the Flash-Power" up and down button to change the value settings
- The display switches back to normal mode after approx. 4 seconds if no button was pressed. The settings are automatically stored.
- Standard setting is: "A.3"

Value A	1	2	3	4	5	6	7
Beep-On-Time in m/seconds	70	140	210	280	350	420	490

The EL-Skyport on / off, Group, Frequency Channel and the Power Steps Per Push can be customised.

EL-Skyport on / off

Press the flash power up-down buttons together to enter into the “Advanced Feature Setup”

Display shows

r.0	EL-Skyport off
r.1	EL- Skyport on
r.2	EL-Skyport speed mode (only available with EL-Skyport Speed)

Change settings with the flash power up-down buttons

After 3 to 4 seconds the settings are saved automatically and the display shows the flash power setting.

Group Settings

Press the flash power up-down buttons together to enter into the “Advanced Feature Setup”. Then, scroll to G.1 using the Prop/Free button.

Display shows

G.1	Group 1 (standard setting)
G.2	Group 2
G.3	Group 3
G.4	Group 4

Select Group with the flash power up-down buttons

After 3 to 4 seconds the settings are saved automatically and the display shows the flash power setting.

Frequency Channel Settings

Press the flash power up-down buttons together to enter into the “Advanced Feature Setup”. Then, scroll to F.1 using the Prop/Free button (only use in cases of interference with other systems).

Display shows

F.1 to F.8	Select Frequency Channel from 1 – 8.
------------	--------------------------------------

Change the Channel with the flash power up-down buttons

Note: The transmitter must have the same Frequency Channel setting. Standard setting is Frequency Channel 1.

After 3 to 4 seconds the settings are saved automatically and the display shows the flash power setting.

Power Steps Per Push

Press the flash power up-down buttons together to enter into the “Advanced Feature Setup”. Then, scroll to i.1 using the Prop/Free button.

Display shows

i.0	+/- 1f-stop
i.1	+/- 1/10 (standard setting)
i.2	+/- 2/10
i.3	+/- 3/10
i.4	+/- 4/10
i.5	+/- 5/10

Select values with the flash power up-down buttons

After 3 to 4 seconds the settings are saved automatically and the display shows the flash power setting.

If the unit does not flash but the ON/OFF switch indicates that there is power, it could be that the flash tube needs replacing. *Flash tubes have a long life with average use, but multiflashing in long sequences can cause overheating of the electrodes leading to premature ageing, or perhaps the flashtube is broken or cracked*



To replace the flash tube:

1. Switch off the mains switch
2. Remove the mains cable
3. Take the unit from its stand or lay it horizontally on a rigid surface. It will need to be held firmly whilst removing and replacing the tube.
4. Allow the flash tube and modelling lamp to cool for several minutes. They may be very hot.
5. Carefully remove and store the modelling lamp.
6. Use a protective glove to remove the flashtube:
 - A – Pull the flash tube firmly out of the terminals
 - B – If the tube is broken, use security gloves. Avoid cutting yourself!
 - C - If the tube is broken, never touch the metal electrodes and ensure that the unit is disconnected from the mains and discharged, wait min. 30 minutes! Use an insulated tool to pull out the electrodes.
7. Take the new flash tube. A glove or "plastic protection" **MUST BE USED**. Contact with your fingers on the glass, will cause dark markings on the tube when it is used.
8. Check that the tube is correctly aligned (central) and that the trigger contact is gripping the tube.
9. Re-connect and test the unit as usual.

Error Management

Error	Fault	Description
E1	Overvoltage detected	Switch unit OFF, wait 2 minutes and switch unit ON again. If the error shows up again the unit requires a check up at the Elinchrom service centre
E2	Overheating	Wait until the unit has cooled down. The unit will switch back to normal operation as soon as temperature decreases to normal working level.
E3	Auto dump function fault	The Unit has detected a time out in the ADF mode. Switch the unit OFF, wait 2 minutes and switch the unit ON again; use the Test release button for power reduction. If the error shows up again the unit requires a check up at the Elinchrom service centre.
E4	Charge fault	Unit has detected a time out during recharging. Switch unit OFF, wait 2 minutes and switch unit ON again. If the error shows up again the unit requires a check up at the Elinchrom service centre.
E5	Mains supply fault	Unit has detected a mains supply fault. Check your mains cord and mains installation sockets. Switch unit OFF, wait 2 minutes and switch unit ON again. If the error shows up again the unit requires a check up at the Elinchrom service centre.
E8	Fan management fault	Unit has detected a FAN management problem due to overheating. Wait until the unit has cooled down. Check if the FAN is blocked. If the error shows up again the unit requires a check up at the Elinchrom service centre.

Technical data		BX 250Ri	BX 500Ri
Flash power	J(Ws)	250	500
Power supply	V	90/260	90/260
F-stop, 1m, 100 ISO, with reflector 48°		64	90
Power range	J(Ws)	16-250	31-500
Variable flash power	f-stops	5 f-stops 1/16 - 1/1	
Recycling time, min. / max. (230 V)	s	0.29 / 0.73	0.36 / 1.13
Recycling time, min. / max. (115 V)	s	0.27 / 1.02	0.34 / 1.45
Colour temperature max. power	°K	5360	5410
Flash duration (t 0,5) 1/1	s	1/2762	1/1558
Flash duration (t 0,5) 1/2	s	1/2165	1/1395
Voltage stabilisation		± 0.5 % Maximum stability for digital imaging	
Sync voltage	V	5 V, maximum compatibility with digital cameras	
Plug-in flashtube	Code	24000	24000
Modelling lamp 230 V	Code	23002	23002
Modelling lamp 115 V	Code	23006	23006
Fan cooled		Microprocessor controlled fan	
EL-Skyport		Integrated transceiver, 4 Groups, 8 Frequencies	
Dimensions	cm	26 x 19 x 14	
Weight	kg	1.85	2.05
BX-Ri	Code	20460.1	20461.1

Radio interference suppressiv CE-IEC 491 EN 60 555 - EN 61 000 - 4 - 2/3/4/5

Tolerances and specifications conforming to IEC and CE standards. Technical data subject to change without notice.

EL-Skyport

Transmitter Speed

19350

User Manual

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EL-Skyport Transmitter SPEED //19350

Operating instructions :

2.4 GHz digital wireless Flash Trigger Transmitter

Features

EL-Skyport Transmitter Speed is designed with the latest 2.4 GHz **Digital Wireless Technology**.

- SLR Camera Sync speeds: SPEED mode up to 1/250 s, STANDARD mode 1/160 - 1/200 s.
- 5 selectable trigger modes, (4 Groups + All)
- 8 frequency channels.
- 40 Bit security encryption.
- Up to 60 m range indoors for standard mode and up to 40 m in speed mode.
- Up to 120 m range outdoors for standard mode and up to 60 m in speed mode.
- Battery life up to 6 Months - over 30'000 flashes.
- RX-feature buttons (Remote Control).
- Test trigger button and feature button.
- Integrated Hot-shoe (middle contact) improved.
- SYNC-socket for direct connection improved.
- Two flash modes, standard and speed.
- The "Standard" mode is fully compatible with previous EL-Skyport versions.
- The SPEED function is available for Ranger Quadra AS, BXRi 250 / 500 und D-Lite it and all other units, when used with the Universal Speed.
- Status LED for EL-Skyport mode and battery status.
- Improved housing, battery drawer and switches.
- New Hot-shoe with screw-lock.
- New extra features; configure EL-Skyport with the new EL-Skyport PC / MAC software 3.0.

You will appreciate the convenience of this professional and powerful wireless device.

Note: Shutter speed and distance range are influenced by interference from other 2.4 GHz electronic equipment and reflections of ceilings, walls, floors, furniture, metall, trees and humidity in woods etc.

For better performance the Transmitter and Receiver antenna should have direct sight, without any walls or objects in - between.

Battery Installation

1. Pull the battery drawer out carefully.
2. Place the Lithium battery, see **Fig. 1** for correct polarity.
3. Close the battery drawer.

! CAUTION:

- Ensure correct polarity / minus pole on top.
- Use only the Lithium Battery CR2430 3.0 V **19372**.
- Remove battery if the EL-Skyport Transmitter is not used for some time.
- Never short-circuit battery poles.
- Avoid direct sunlight or temperatures above 45°C. The battery may explode!

Hot-Shoe Connector with Screw-Lock

The new Hot-shoe connector with screw-lock and middle contact synchronisation is designed to fit digital and analogue cameras with maximum sync output of 3 V (the middle contact is the positive pole).

Operating Instructions

Fig. 1

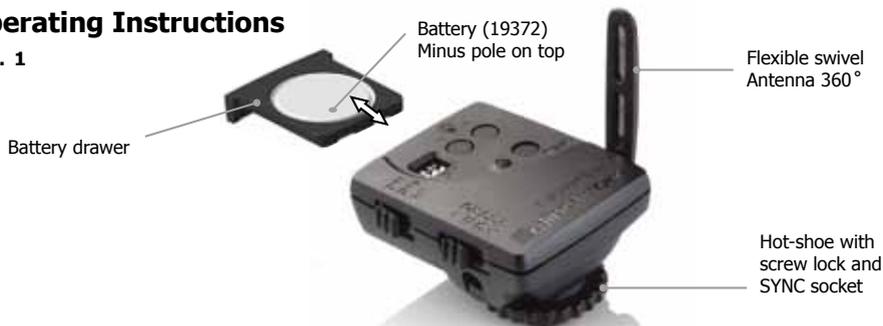
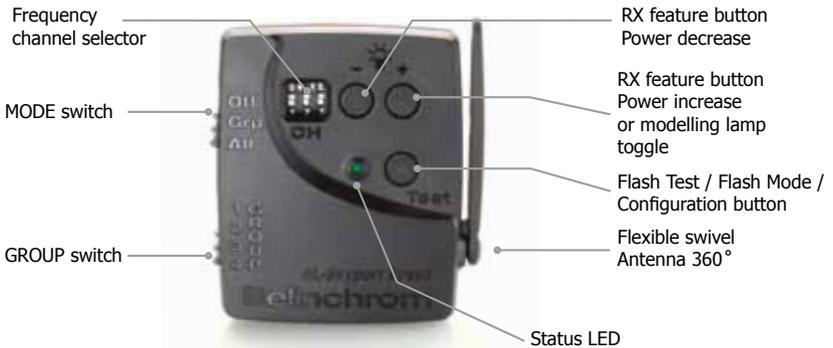


Fig. 2



Frequency Channel



Note:

Transmitter and the corresponding **Transceiver RX**, the **Universal Receiver** or the **EL units with integrated EL-Skyport Receiver** must have the same frequency channel settings!

Frequency Channel	Slide Button configuration			Frequency / Mhz
	1	2	3	
1 (default)	Off	Off	Off	2456
2	On	Off	Off	2458
3	Off	On	Off	2460
4	On	On	Off	2462
5	Off	Off	On	2469
6	On	Off	On	2471
7	Off	On	On	2473
8	On	On	On	2475

EL-Skyport Sync Speed & Standard Mode

The SPEED function is available for Ranger Quadra AS, BXRi 250 / 500 und D-Lite it and all other units, when used with the EL-Skyport Universal Speed.

Select "Speed" sync mode

Synchronises SLR cameras up to 1/250 s, or compact digital cameras up to 1/2850 s

- Select "Group" or "All" mode.
- Press test push button for minimum 5 seconds until the STATUS LED flashes two times.
- Release test push button.
- Now the EL-Skyport Transmitter Speed works in "SPEED" mode (r.2 mode).

Select "Standard" triggering mode

Synchronises SLR cameras up to 1/200 s, or compact digital cameras up to 1/1600 s

- Select "Group" or "All" mode.
- Press test push button for minimum 5 seconds until the STATUS LED flashes one time.
- Release test push button.
- Now the EL-Skyport Transmitter Speed works in "STANDARD" mode.

EL-Skyport Module Configuration:

Only possible with EL-Skyport PC / MAC software v 3.0 and higher.

- Power-Save Timer, individual programmable or disabled.
- Trigger delay is programmable from 250 ms up to 15 s.
- Download the FREE EL-Skyport Software from www.elinchrom.com

SET Config Mode: (to configure included features)

- Switch module OFF.
- Hold test push button and switch TX ON.
- Keep test push button pressed until STATUS LED is ON.
- Check also EL-Skyport PC / MAC software 3.0 for changing Transmitter Speed setting.

The EL-Skyport **Transmitter** triggers the EL-Skyport **Receiver** modules in the following modes:

- 1. Off** → Unit is OFF, no function.
- 2. Select Group - Group (1 to 4).**
 - Set switch to **Group**. and select Group 1 to 4.
 - All corresponding EL-Skyport **Receivers** with the same **selected Group (1 to 4)** are triggered.
- 3. ALL** → Mode switch is set to ALL.
 - All corresponding EL-Skyport Receivers are triggered regardless of which **Group** is selected.

Integrated Hot-Shoe SYNC 2.5 mm Socket

Use the included Sync cable to connect the integrated 2.5 mm Mono Jack socket with the camera or lens PC socket directly.

EL-Skyport Transmitter SPEED RX Features

Compatible with Ranger RX, Style RX, Digital RX, BXRi 250 / 500, Ranger Quadra AS!

If the EL-Skyport Transmitter SPEED is used with the **EL-Skyport Transceiver RX, BXRi 250 / 500 or the Ranger Quadra AS**, the following **EXTRA** features are available:

Depending upon which **Group** is selected, the following RX-unit settings can be modified:

- 1. Flash power increase in 1/10 f-stops.**
 - press push button + to **increase** the **power** of selected Group of (or ALL) RX-units in 1/10 f-stops.
- 2. Flash power decrease in 1/10 f-stops.**
 - press push button - to **reduce** the **power** of selected Group of (or ALL) RX-units in 1/10 f-stops.
- 3. Modelling lamp toggle.**
 - press and hold the push button +, 2 seconds or longer before releasing, to **toggle modelling lamp** of the selected Group of (or ALL) RX-units.

**Power save mode timer:**

- After not using the Transmitter for 30 minutes the Power Save mode is active. To reactivate the Transmitter, press the TEST push button.
- The Power Save mode timer can be configured with the EL-Skyport PC / MAC software v 3.0 and higher.

Status LED:

- LED flashes every 4 seconds one time in "Standard" mode and two times in "Speed" mode.
- LED intensity correspond to the battery status - if off or very low => exchange the battery.
- LED is OFF if the Transmitter is switched OFF or in Power Save mode.

Reset to manufacturer default setting:

- Switch ON.
- Press test button for min 10 seconds.

EL-Skyport Modules

EL-Skyport Universal SPEED (NEW) / Universal (previous version)

- Universal Receiver for all makes of Flash with a SYNC socket, conforming to Sync norms!

EL-Skyport Transceiver RX

- This Transceiver is only for Elinchrom RX units. The module operates all RX features with the EL-Skyport software and triggers the flash.

EL-Skyport USB RX SPEED (NEW) / USB RX (previous version)

- To operate RX flash units via computer the USB module should be used in conjunction with the EL-Skyport Transceiver RX and the EL-Skyport software.



**Universal Speed
& Universal**



**Transceiver RX
19353**



**USB RX Speed
& USB RX**

Troubleshooting

Should an error occur, first check the following points:

Having this problem?	Check the following points:
No flash unit can be triggered with the Transmitter Mode "All" is selected	<ul style="list-style-type: none"> ▶ Check if the Transmitter is switched ON. ▶ Check battery polarity. ▶ Check if the Receiver module is connected correctly to the unit. ▶ Check if the frequency selector switch is set to the same channel. ▶ Check if Transmitter is in the same trigger mode Speed or Standard.
Some units do not fire when triggered with the Transmitter Mode "Grp" is selected	<ul style="list-style-type: none"> ▶ Check if the Channel selector switch is set to the same Group. ▶ Reduce distance to any "not working" unit. ▶ Check if Transmitter is in the same trigger mode Speed / Standard.
TEST flash works, but the camera will not trigger flash unit	<ul style="list-style-type: none"> ▶ Check hot-shoe fitting. ▶ Connect the 2.5 mm to PC SYNC cable instead of hot-shoe connection.
Limited Distance range	<ul style="list-style-type: none"> ▶ Reposition the units. ▶ Increase the distance to walls and ceilings. ▶ Position the antenna of Transmitter and Receiver. ▶ Use an RX extension cable to reduce the distance between the modules.

CE Statements



This device has been tested and found to comply with the requirements set up in the council directive on the approximation of the law of member states relating to EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC and R&TTE Directive 99/5/EC

FCC Compliance and Advisory Statement

This device complies with Part 15 of the FCC rules. Operation is subject of the following two conditions: 1. this device may not cause harmful interference, and 2. this device must accept any interference received, including interferences that may cause undesired operation.

The equipment has been certified to comply with the limits for a Class B computing 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 or 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 switching the equipment off and on. The user can try to correct the interference by the following measures:

1. Reorient or relocate the receiving antenna
2. Increase the separation between the equipment and receiver
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help, changes or modification not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

Disposal and recycling



This device has been manufactured to the highest possible degree 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 reclaimed 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 agent (check our website for a list of all ELINCRHOM agents worldwide).