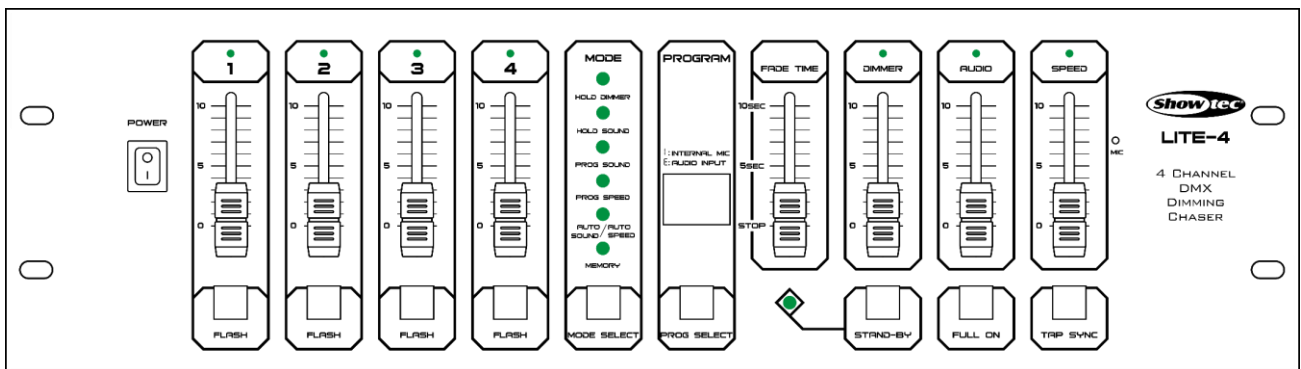




MANUAL



ENGLISH

Lite-4

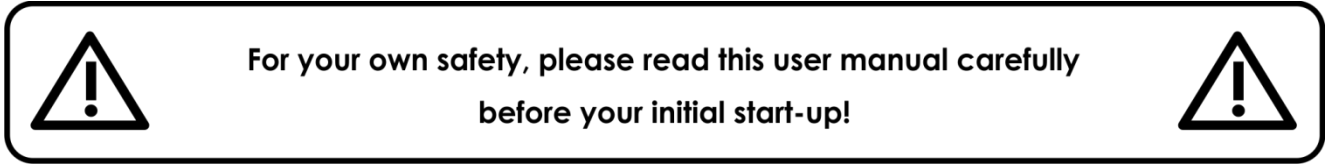
V1

Ordercode: 50328

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Warning

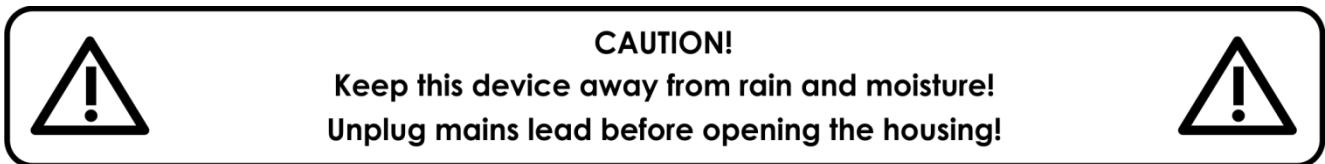
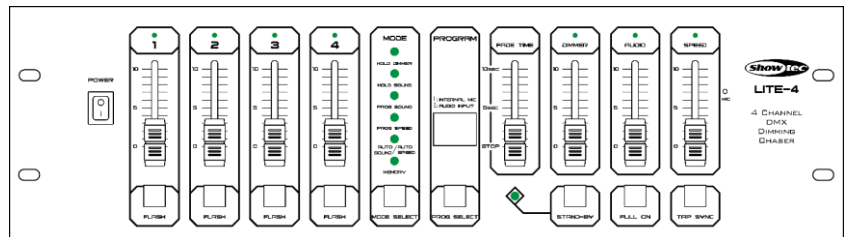


Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

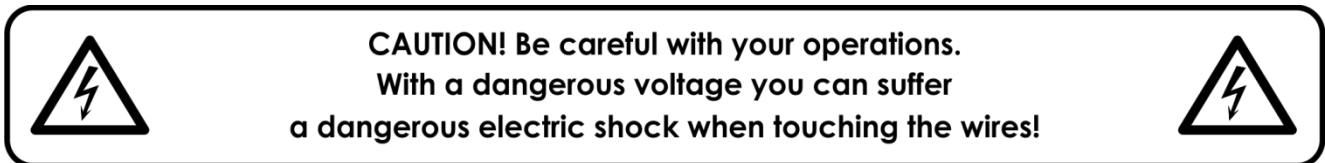
- Showtec Lite-4
- DC power adapter (1,5 m)
- User manual



Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmer pack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Device must be installed out of the reach of children. Never leave the unit running unattended.
- The user is responsible for correct positioning and operating of the Lite-4. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

Operating Determinations


- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The maximum ambient temperature $t_a = 40^\circ\text{C}$ must never be exceeded.
- In order to eliminate wear and improve the device's lifespan, during periods of non-use, completely disconnect from power source via breaker or by unplugging.
- The relative humidity must not exceed 50 % with an ambient temperature of 40°C .
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Connection with the mains

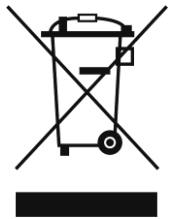
Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!



Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 01) Your name.
- 02) Your address.
- 03) Your phone number.
- 04) A brief description of the symptoms.

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Showtec Lite-4 is a programmable light controller equipped with a 4-channel chaser, 42 chase programs, memory backup and fade time control.

- Power input: DC 15-20V, 400mA
- Audio input: 100mV-1Vp-p
- DMX output: 3-pin DMX signal connector OUT
- Analogue output: 8-pin DIN analogue connector OUT for an analogue dimmer
- Dimensions: 483 x 133 x 40 mm (LxWxH)
19" x 3 HE
- Weight: 2,1 kg

Optional accessories

[D7403](#) – DAP case for Scanmaster series

Overview

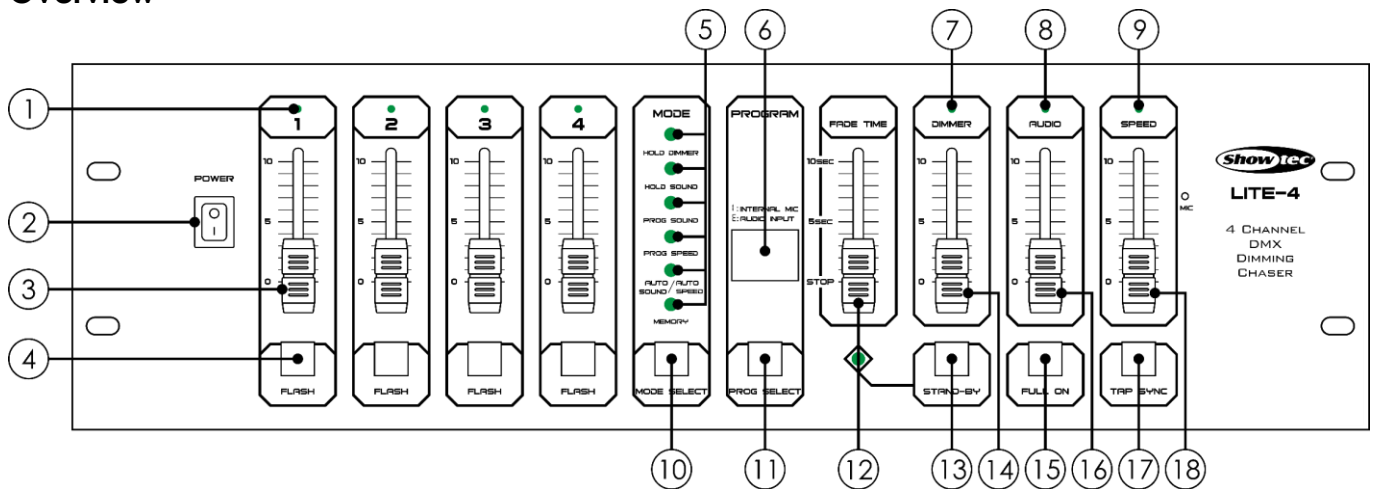


Fig. 01

- 1) Channel dimmer indicator: This indicator shows the dimming level of the corresponding channel.
- 2) Power switch ON/OFF
- 3) Channel dimmer fader: Move the faders to adjust the dimming level of the corresponding channel.
- 4) Channel flash button: Press to activate the channel's FULL ON function.
- 5) Mode LED indicators: These indicators show the currently active operating mode.
- 6) LED display
- 7) Master dimmer indicator: This indicator shows the master dimming level.
- 8) Audio level indicator: This indicator shows the device's sensitivity to the beat of the music.
- 9) Speed indicator: This indicator shows the chase speed.
- 10) Mode Select button: Press to select the desired operating mode. The available operating modes are: Hold Dimmer / Hold Sound / Prog Sound / Prog Speed / Auto Speed / Auto Sound / Memory or music control from line input / built-in microphone.
- 11) Prog Select button: Press to select the desired program. There are 42 pre-set programs in Prog Sound / Prog Speed / Auto Speed / Auto Sound. In Memory mode, press the button to activate sub-mode to select the desired operating mode from Program / Manual / Auto Sound / Auto Speed, using the STAND BY button.
- 12) Fade control fader: Move the fader to adjust the delay time. It is not effective in Hold Sound mode.
- 13) Stand-by button & indicator: Press this button to pause all output.
- 14) Master dimmer fader: Move the fader to adjust the master dimmer.
- 15) Full On button: Press this button to activate the FULL ON function for the whole output.
- 16) Audio level fader: Move the fader to adjust the device's sensitivity to the beat of the music, detected by the built-in microphone or line in.
- 17) Tap Sync button: This button is only effective in Prog Speed and Auto Speed modes. Press to define the chase speed. When you press this button twice within 10 minutes, the interval between two pressings will be assigned to the chase speed.
- 18) Speed fader: Move the fader to adjust flash speed.

Backside

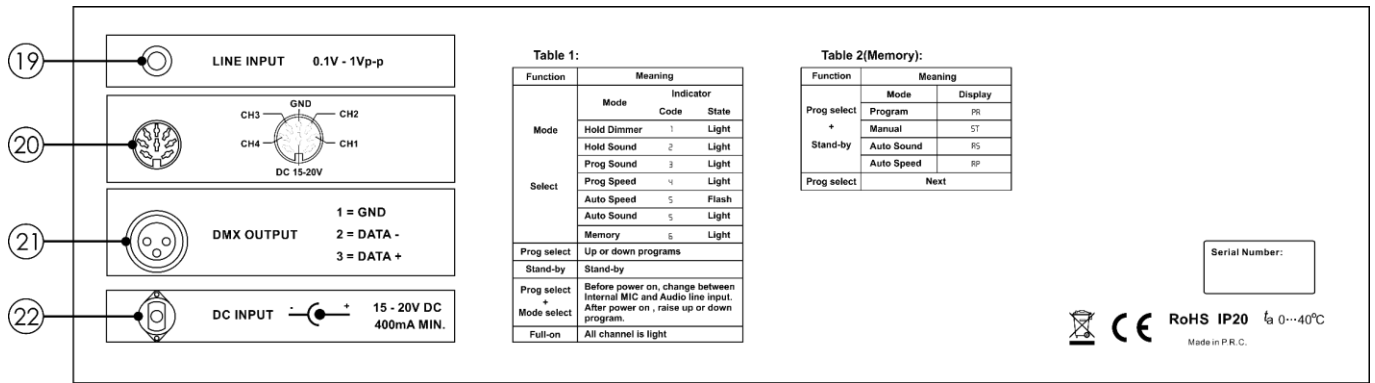


Fig. 02

- 19) RCA audio connector Line IN (100mV-1Vp-p)
- 20) 8-pin DIN analogue connector OUT: For an analogue dimmer
- 21) 3-pin DMX signal connector OUT: Connect to a DMX pack or a DMX fixture.
- 22) 15-20V DC power connector IN

Installation

Remove all packing materials from the Lite-4. Check if all foam and plastic padding is removed. Screw the equipment into a 19" rack. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
 Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Power On/Off

- 01) Flick the power switch **(02)** to turn the Lite-4 on.
- 02) Flick the power switch **(02)** again to turn the Lite-4 off.

Control Modes

- There are 7 modes:
1. Hold Dimmer
 2. Hold Sound
 3. Prog Sound
 4. Prog Speed
 5. Auto Speed
 6. Auto Sound
 7. Memory

Press the MODE SELECT button **(10)** to choose the desired operating mode. Every time you press the MODE SELECT button, the corresponding LED indicators **(05)** will light up to show the currently selected operating mode. Once you have chosen the desired operating mode, follow the instructions below.

1. Hold Dimmer

- 01) In this mode, the channel output is controlled by the corresponding channel dimmer faders **(03)** or master dimmer fader **(14)**.

2. Hold Sound

- 01) In this mode, the channel output is controlled by the corresponding channel dimmer faders **(03)**.
- 02) Move the Audio level fader **(16)** to set the music sensitivity.

3. Prog Sound

- 01) Press the PROG SELECT button **(11)** to select one of the 42 programs.
- 02) If you press the PROG SELECT button **(11)** once, the program number will increase by one.
- 03) Press and hold down the PROG SELECT button **(11)** to fast forward through the programs.
- 04) Simultaneously press the PROG SELECT **(11)** and MODE SELECT **(10)** buttons to reverse program selection.
- 05) If you repeat steps 1-3, the program numbers will decrease instead of increasing.

4. Prog Speed

- 01) Once you have chosen one of the 42 programs, move the Speed fader **(18)** or press the Tap Sync button **(17)** to set the program speed.

5. Auto Speed

- 01) When the mode is chosen, the LED indicator **(05)** will keep blinking.
- 02) In this mode, the device will execute each program 8 times and then will proceed to the following program.

6. Auto Sound

- 01) When this mode is chosen, the LED indicator **(05)** will remain continuously on.
- 02) In this mode, the device will execute each program 8 times and then will proceed to the following program.

7. Programming/Operating Modes

- 01) Press and hold down the PROG SELECT button **(11)**.
- 02) Repeatedly press the STAND-BY button **(13)** to toggle through the available modes:

PA Program

SE Manual

AS Auto Sound

AP Auto Speed

- 03) Release the PROG SELECT button **(11)** to activate the currently selected mode.

7.1. PR Mode (Program)

- 01) Press the PROG SELECT button **(11)** until the display shows "01."
- 02) Move the channel dimmer faders **(03)** or the master dimmer fader **(14)** to program a scene.
- 03) Press the PROG SELECT button **(11)** to store changes. The display will blink shortly and will show "02."
- 04) Repeat steps 2-3 to create more scenes.
- 05) If you make a mistake, while programming, you will need to restart from scene "01."

7.2. ST Mode (Manual)

- 01) Once you have programmed all your scenes, it is now possible to manually select a specific scene.
- 02) Repeatedly press the PROG SELECT button **(11)** to browse through these scenes. The display will show the currently selected scene's number.

7.3. AS Mode (Auto Sound)

- 01) The programs will react to the beat of the music. The display will show the currently executed program.
- 02) **This mode will ONLY work if you have selected the built-in microphone as your audio signal source** (see below, Audio Input Selection).

7.4. AP Mode (Auto Speed)

- 01) The programs will be executed automatically.
- 02) Move the Speed fader **(18)** or press the Tap Sync button **(17)** to set the program speed.

Full On and Flash

- 01) Press the FULL ON button **(15)** to activate the Full On function for the whole output.
- 02) Press the FLASH buttons **(04)** to activate the Full On function for the desired channels.
- 03) These functions can be used in all available operating modes.

Stand-By

- 01) In order to turn off the whole output, press the STAND-BY button **(13)** once. The stand-by LED indicator will be blinking.
- 02) In order to exit Stand-by mode, press the button once more. The stand-by LED indicator will turn off.

Audio Input Selection

It is possible to select the audio signal source. Choose between the built-in microphone or the audio line input.

- 01) Flick the power switch **(02)** to turn the Lite-4 off.
- 02) Wait 5 seconds, press and hold down the PROG SELECT button **(11)** and flick the power switch **(02)** to turn the Lite-4 on. The display will now show "I" (built-in microphone) or "E" (audio line input).
- 03) While still holding down the PROG SELECT button **(11)**, press the MODE SELECT button **(10)**. The audio signal source will change accordingly.

Maintenance

The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 02) There may not be any deformations on housings, fixations and installation spots.
- 03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
- 04) The electric power supply cables must not show any damages or material fatigue.

The Showtec Lite-4 requires almost no maintenance. However, you should keep the unit clean.

Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure that the connections are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

No Light

If the Lite-4 does not operate properly, refer servicing to a technician.

Suspect three potential problem areas: the power supply, the Lite-4, the light fixture.

- 01) Power supply. Check if the unit is plugged into an appropriate power supply.
- 02) The Lite-4. Return the Lite-4 to your Showtec dealer.
- 03) The light fixture. Return the light fixture to its dealer.
- 04) The light fixture does not respond to the Lite-4: Check the DMX address of the fixture and the controller. Make sure that they match. Make sure that the connections are correct.
- 05) If all appears to be O.K., plug the unit in again.
- 06) If nothing happens after 30 seconds, unplug the device.
- 07) If you are unable to determine the cause of the problem, do not open the Lite-4, as this may damage the unit and the warranty will become void.
- 08) Return the device to your Showtec dealer.

No Response to DMX

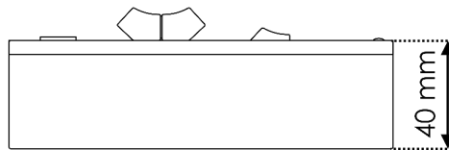
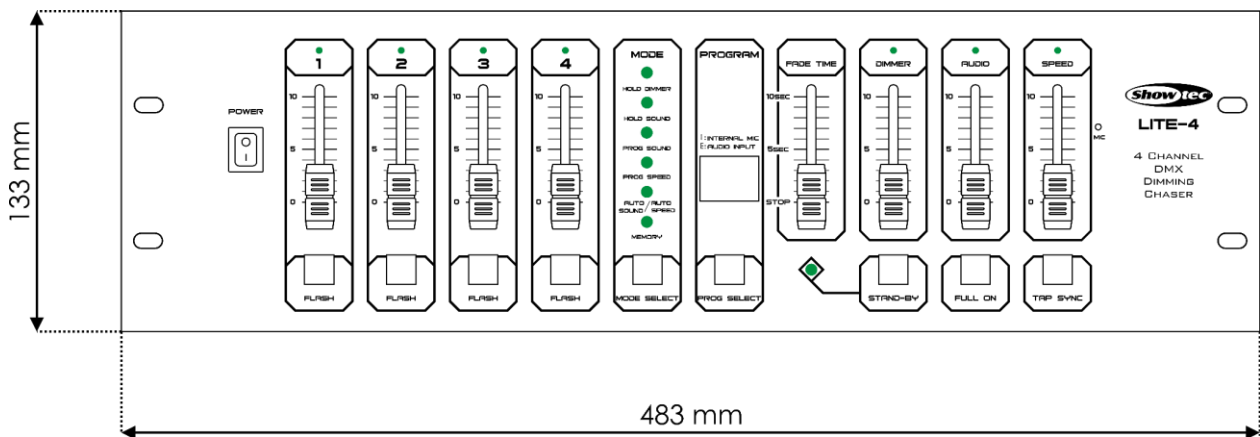
Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

- 01) Check the DMX setting. Make sure that DMX addresses are correct.
- 02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 03) Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Remedy
One or more fixtures do not function at all	No power to the fixture	<ul style="list-style-type: none"> • Check if power is switched on and cables are plugged in
	Primary fuse blown	<ul style="list-style-type: none"> • Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected	<ul style="list-style-type: none"> • Connect controller
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	<ul style="list-style-type: none"> • Install a phase reversing cable between the controller and the first fixture on the link
Fixtures reset correctly, but some respond erratically or not at all to the controller	Poor data quality	<ul style="list-style-type: none"> • Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link
	Bad data link connection	<ul style="list-style-type: none"> • Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	<ul style="list-style-type: none"> • Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	<ul style="list-style-type: none"> • Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	<ul style="list-style-type: none"> • Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together • Have the defective fixture serviced by a qualified technician
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	<ul style="list-style-type: none"> • Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically
No light or LEDs cut out intermittently	Fixture is too hot	<ul style="list-style-type: none"> • Allow fixture to cool • Clean fan • Make sure air vents are not blocked • Turn up the air conditioning
	LEDs damaged	<ul style="list-style-type: none"> • Disconnect fixture and return to your dealer
	The power supply settings do not match local AC voltage and frequency	<ul style="list-style-type: none"> • Disconnect fixture. Check settings and correct if necessary

Product Specifications

Model:	Lite-4
Power input:	DC 15-20V, 400mA
Dimensions:	483 x 133 x 40 mm (LxWxH) 19" x 3 HE
Weight:	2,1 kg
Operation and Programming	
Signal pin OUT:	pin 1 earth, pin 2 (-), pin 3 (+)
Signal output:	3-pin DMX signal connector OUT
Analogue output:	8-pin DIN analogue connector OUT for an analogue dimmer
Electro-mechanical effects	
Audio input:	100mV-1Vp-p
Max. ambient temperature t_a :	40°C



Design and product specifications are subject to change without prior notice.



Website: www.Showtec.info
Email: service@highlite.com



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