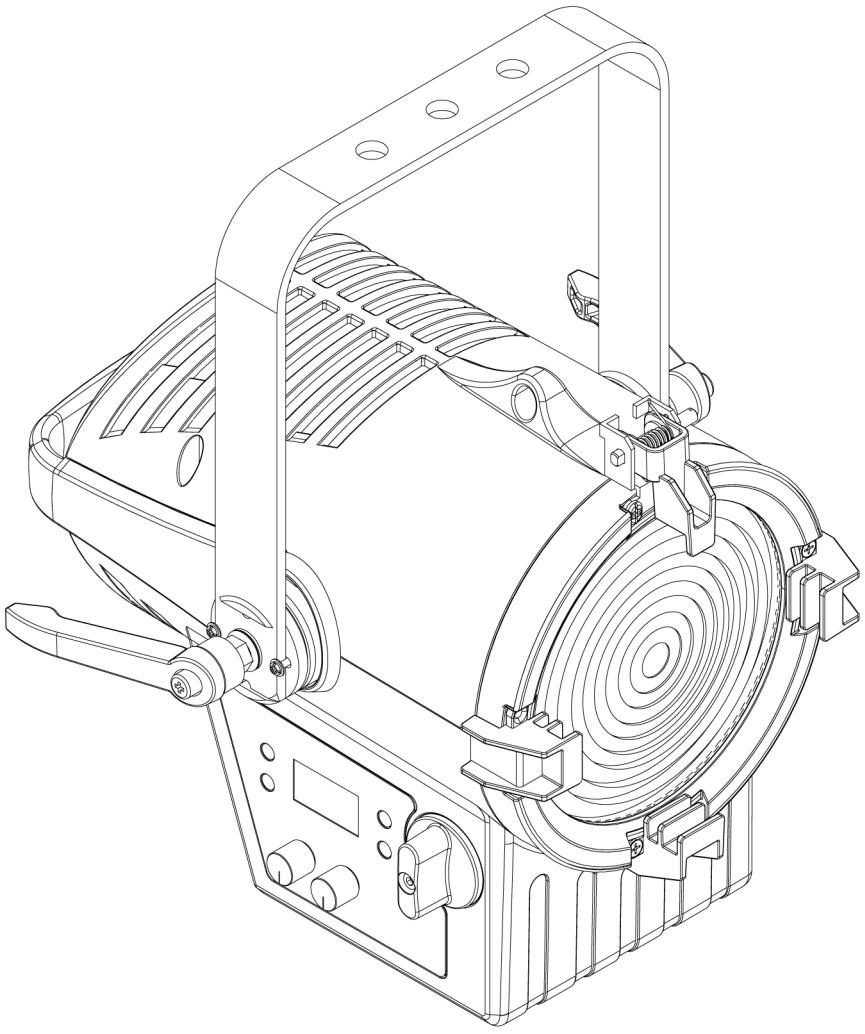
USER MANUAL

ENGLISH

V1.0



Performer Fresnel 1500 Q6 MKII

Product code: 33133

Preface

Thank you for purchasing this Showtec product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

Table of contents

1. Introduction **4**
1.1. Before Using the Product 4
1.2. Intended Use 4
1.3. LEDs Lifespan 4
1.4. Product Lifespan 4
1.5. Text Conventions 4
1.6. Symbols and Signal Words 5
1.7. Symbols on the Information Label 5

2. Safety **6**
2.1. Warnings and Safety Instructions 6
2.2. Requirements for the User 8
2.3. Personal Protective Equipment 8

3. Description of the Device **9**
3.1. Front View 9
3.2. Back View 9
3.3. Product Specifications 10
3.4. Dimensions 11
3.5. Optional Accessories 12

4. Installation **13**
4.1. Safety Instructions for Installation 13
4.2. Personal Protective Equipment 13
4.3. Installation Site Requirements 13
4.4. Rigging 14
4.5. Angle Adjustment 15
4.6. Zoom Adjustment 15
4.7. Barndoor Installation (Optional) 16
4.8. Filter Frame Installation (Optional) 17
4.9. Connecting to Power Supply 18
4.10. Power Linking of Multiple Devices 18

5. Setup **19**
5.1. Warnings and Precautions 19
5.2. Stand-alone Setup 19
5.3. DMX Connection 19
5.3.1. DMX-512 Protocol 19
5.3.2. DMX Cables 20
5.3.3. Master/Slave Setup 20
5.3.4. DMX Linking 21
5.3.5. DMX Addressing 21

6. Operation **22**
6.1. Safety Instructions for Operation 22
6.2. Turning ON/OFF 22
6.3. Control Modes 22
6.4. Control Panel 23
6.5. Start-up 24
6.5.1. Password Input 24
6.6. Menu Overview 25
6.7. Main Menu Options 28
6.7.1. Knob Mode 28
6.7.2. Static 29
6.7.3. Address 29
6.7.4. Run Mode 30
6.7.5. Personality 30
6.7.6. Auto Program 31
6.7.7. Edit 31
6.7.7.1. Program 1–Program 2 32
6.7.7.2. Upload 32
6.7.8. Setting 33

6.7.8.1. Reset ... 33
6.7.8.2. Dimmer ... 33
6.7.8.3. Dimming Curves ... 34
6.7.8.4. Tungsten Fade ... 35
6.7.8.5. DMX Error ... 35
6.7.8.6. PWM Rate ... 35
6.7.8.7. Perform ... 36
6.7.8.8. Color Cali ... 36
6.7.9. Info ... 37
6.7.9.1. RDM ... 37
6.8. DMX Channels ... 38
6.8.1. DMX Channel Overview ... 38
6.8.2. BASIC (3 Channels), SSP (8 Channels), TOUR (13 Channels), TR16 (20 Channels) ... 38
6.8.3. HSIC (7 Channels) ... 40
6.8.4. CMY (10 Channels) ... 41
6.8.5. Preset Colors ... 43
6.9. RDM Information ... 45
6.9.1. RDM Details ... 45
6.9.2. Supported RDM PIDs (Parameter IDs) ... 45

7. Troubleshooting ... 46

8. Maintenance ... 47
8.1. Safety Instructions for Maintenance ... 47
8.2. Preventive Maintenance ... 47
8.2.1. Basic Cleaning Instructions ... 47
8.3. Corrective Maintenance ... 47
8.3.1. Replacing the Fuse ... 48

9. Deinstallation, Transportation and Storage ... 49
9.1. Instructions for Deinstallation ... 49
9.2. Instructions for Transportation ... 49
9.3. Storage ... 49

10. Disposal ... 49

11. Approval ... 49

1. Introduction

1.1. Before Using the Product

Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

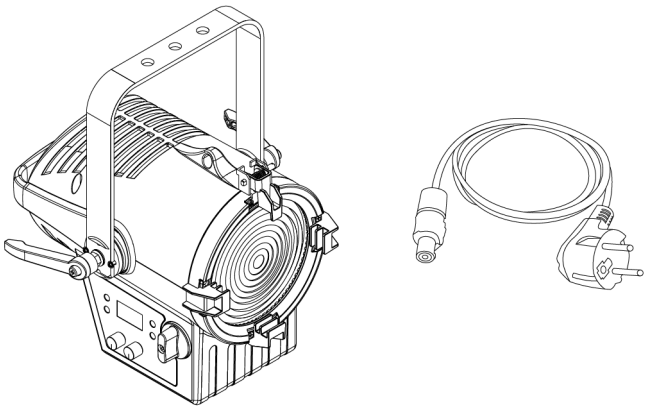
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- Showtec Performer Fresnel 1500 Q6 MKII
- Schuko to Power Pro True cable (1,5 m)
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as a stage light effect. It can be installed only indoors. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. LEDs Lifespan

The light output of the LEDs gradually decreases over time (lumen depreciation). High operating temperatures contribute to this process. You can extend the lifespan of the LEDs by providing adequate ventilation and operating the LEDs at the lowest possible brightness.

1.4. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce wear and improve the lifespan of the device.

1.5. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.6. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.



Electrical hazard



Provides important information about the disposal of this product.

1.7. Symbols on the Information Label

This product is provided with an information label. The information label is located on the side of the device.

The information label contains the following symbols:



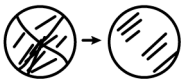
This device shall not be treated as household waste.



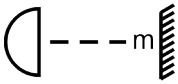
This device is designed for indoor use.



This device falls under IEC protection class I.



Replace any cracked protective shield.



Minimum distance from lighted objects.



Warning: Risk of electric shock. Do not open.

2. Safety



Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

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

2.1. Warnings and Safety Instructions



DANGER
Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.



DANGER
Electric shock caused by dangerous voltage inside

There are areas inside the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from the electrical power supply before service and maintenance, and when the device is not in use.



DANGER
Electric shock caused by short-circuit

This device falls under IEC protection Class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not bypass the thermostatic switch or fuses.
- Replace fuses only with the same type and rating.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.



WARNING
Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



Attention
Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.
- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.



Attention
General safety

- Do not insert objects into air vents.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Change the lens or the LEDs if they are visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. Contact your Highlite International dealer for more information, as servicing can be performed only by instructed or skilled persons.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue use immediately.



Attention
For professional use only
This device must be used only for the purposes it is designed for.

This device is intended for professional use as a stage light effect. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households and for general lighting.
- This device is not designed for permanent operation.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.



Attention
Before each use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

2.3. Personal Protective Equipment

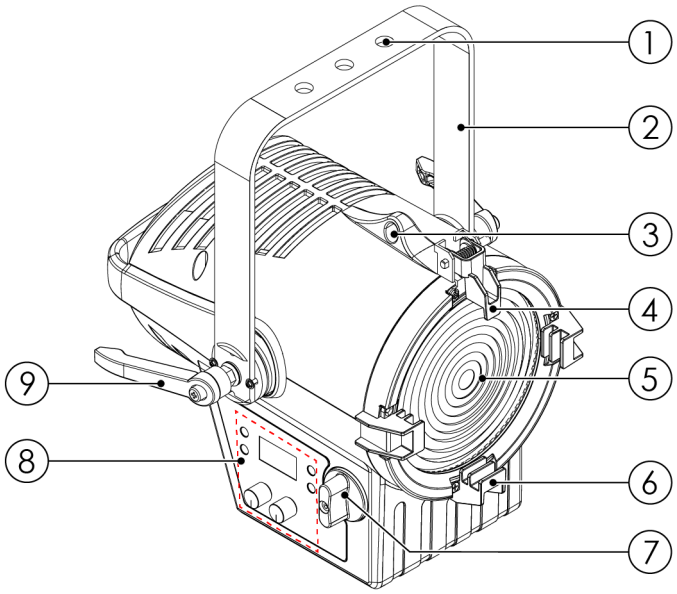
During installation, deinstallation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

3. Description of the Device

The Showtec Performer Fresnel 1500 Q6 MKII is a 200-watt RGBALC LED Spot with high CRI and silent operations, suitable for theatrical and studio applications. It projects a bright, soft field of light within a wide 10°–50° manually adjustable zoom range. The Performer Fresnel 1500 Q6 MKII has a 6-colour LED Engine (RGBALC) with 16 preset colors with a high CRI of 97 for precise color temperatures. Its 0–100 % dimmer function and color engine are DMX controllable. An optional barndoor enables you to manually shape the output of your Performer Fresnel 1500 Q6 MKII.

3.1. Front View

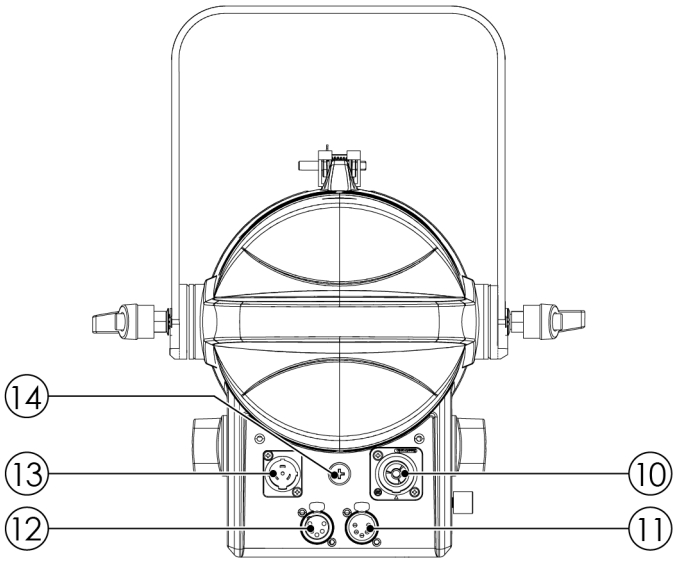
Figure 2



01) 3 x mounting hole (Ø 12,5 mm)
02) Mounting bracket
03) Safety eye
04) Filter frame clip
05) Lens
06) 3 x filter frame holder
07) 2 x zoom knob
08) Control panel: LCD display, control buttons and control knobs
09) 2 x adjustment handle

3.2. Back View

Figure 3



10) Power Pro True connector OUT
11) 5-pin DMX signal connector OUT
12) 5-pin DMX signal connector IN
13) Power Pro True connector IN
14) Fuse (T2 A / 250 V)

3.3. Product Specifications

Model:	Performer Fresnel 1500 Q6 MKII

Source:	
Light source type	LED
Light source quantity	1
Light source power	200 W
LED color type	RGBALC
Refresh rate (max.)	25 kHz
Illuminance @ 5 m	3052 lx
Luminous flux (total)	6213 lm
CRI	97
Minimum CCT	1800 K
Maximum CCT	10000 K

Optical:	
Beam angle minimum (circular)	10°
Beam angle maximum (circular)	50°
Field angle minimum (circular)	18°
Field angle maximum (circular)	75°
Zoom type	Manual

Control and Programming:	
Control mode	DMX / Master Slave / Stand-alone
DMX channels	3 / 7 / 8 / 10 / 13 / 20
Protocols	DMX / RDM
Display	LCD

Dynamic Effects:	
Dimmer	0–100 %

Electrical Specifications and Connections:	
Power supply	100–240 V AC 50/60 Hz
Power consumption	170 W
Power connector IN	Power Pro True
Power connector OUT	Power Pro True
DMX connector	XLR 5P IN/OUT
DMX connector IN	XLR 5P
DMX connector OUT	XLR 5P

Mechanical Specifications:	
Length	450 mm
Width	290 mm
Height	370 mm
Weight	5,3 kg
IP rating	IP20 (indoor use only)
Housing	Aluminum die-cast
Color	Black

Product Properties:	
Cooling	Axial fan

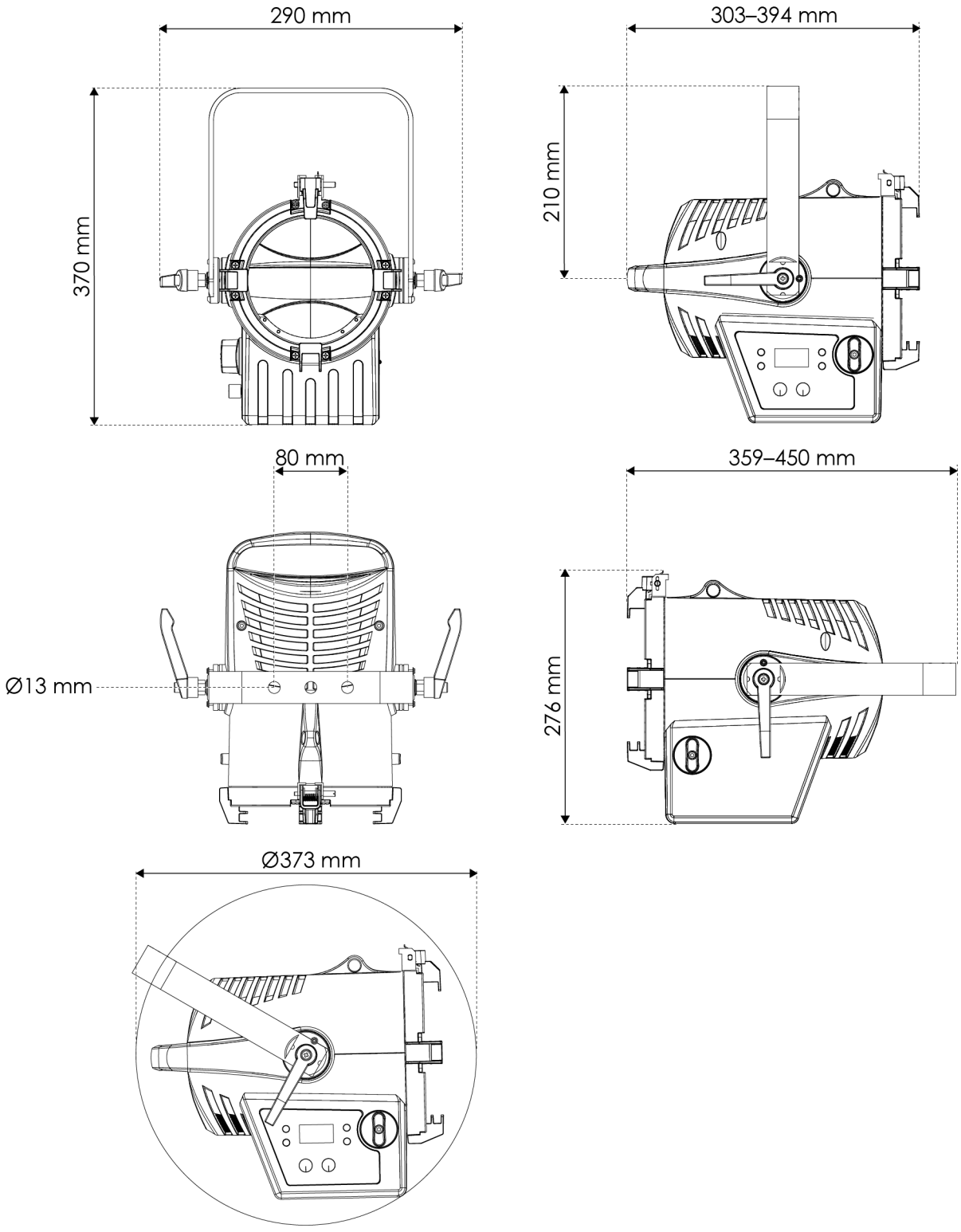
Thermal Specifications:

Maximum ambient temperature	45 °C
Minimum ambient temperature	0 °C

Included Items:	
Included cables	Power Pro True cable

3.4. Dimensions

Figure 4



3.5. Optional Accessories

You can additionally purchase the following accessories:

- 70147 Safety Cable 4mm Cable
- 75101 Fast Coupler 150 Kg Black
- 33160 Barndoor for Performer 1500 Fresnel
- 33162 Filterframe for Performer 1500 series

Contact your Highlite International dealer for more information.

4. Installation

4.1. Safety Instructions for Installation



WARNING
Incorrect installation can cause serious injuries and damage of property.

If trussing systems are used, installation must be carried out only by instructed or skilled persons.

Follow all applicable European, national and local safety regulations concerning rigging and trussing.

4.2. Personal Protective Equipment

During installation, deinstallation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

4.3. Installation Site Requirements

- The device can be used only indoors.
- The maximum ambient temperature t_a = 45 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45 °C.

4.4. Rigging

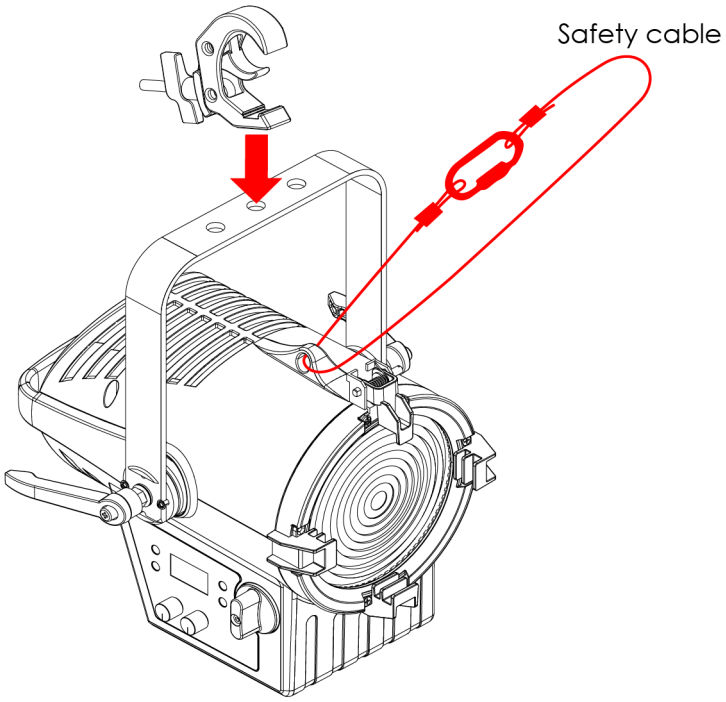
The device can be positioned on a flat surface or mounted to a truss or other rigging structure in any orientation. Make sure that all loads are within the pre-determined limits of the supporting structure.

CAUTION
Restrict the access under the work area during rigging/derigging.

To mount the device to a rigging structure, follow the steps below:

01) Use a clamp to attach the device to the supporting structure. Make sure that the device cannot move freely.
02) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the **safety eye (03)**.

Figure 5

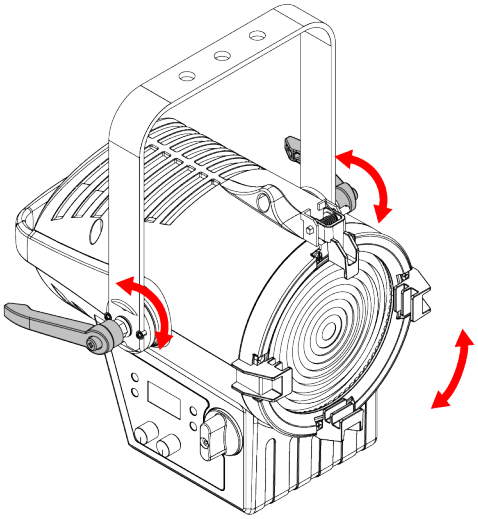


4.5. Angle Adjustment

You can adjust the angle of the device with the **adjustment handles (09)**.

01) Turn the **adjustment handles (09)** counterclockwise to loosen them.
02) Tilt the device to change the angle.
03) Turn the **adjustment handles (09)** clockwise to tighten them. Make sure that the device cannot move freely after the **adjustment handles (09)** are tightened.

Figure 6

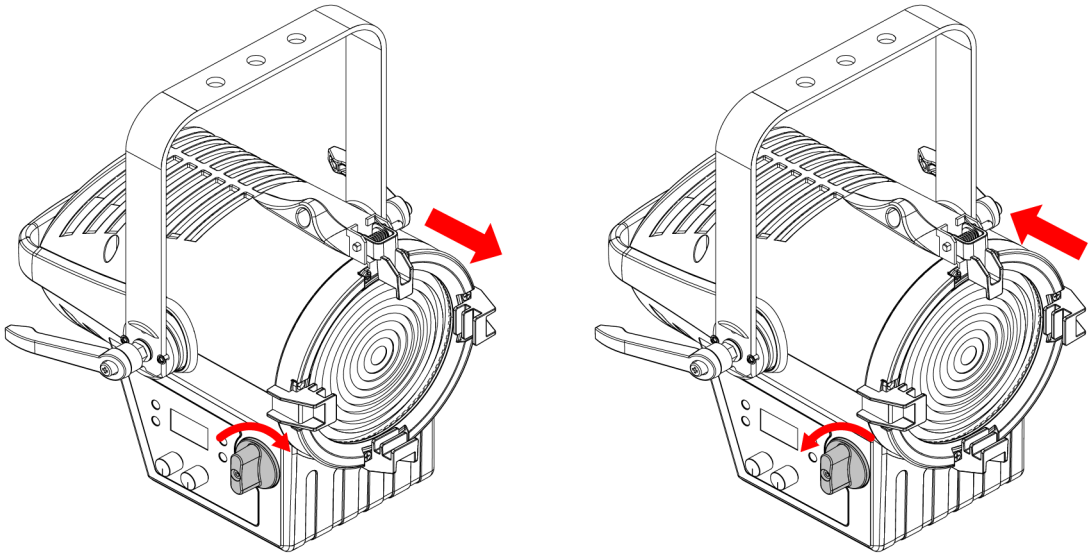


4.6. Zoom Adjustment

You can adjust the zoom of the device with the **zoom knobs (07)** from 10° to 50°.

- Turn one of the 2 **zoom knobs (07)** towards the front of the device to zoom in.
- Turn one of the 2 **zoom knobs (07)** towards the rear of the device to zoom out.

Figure 7



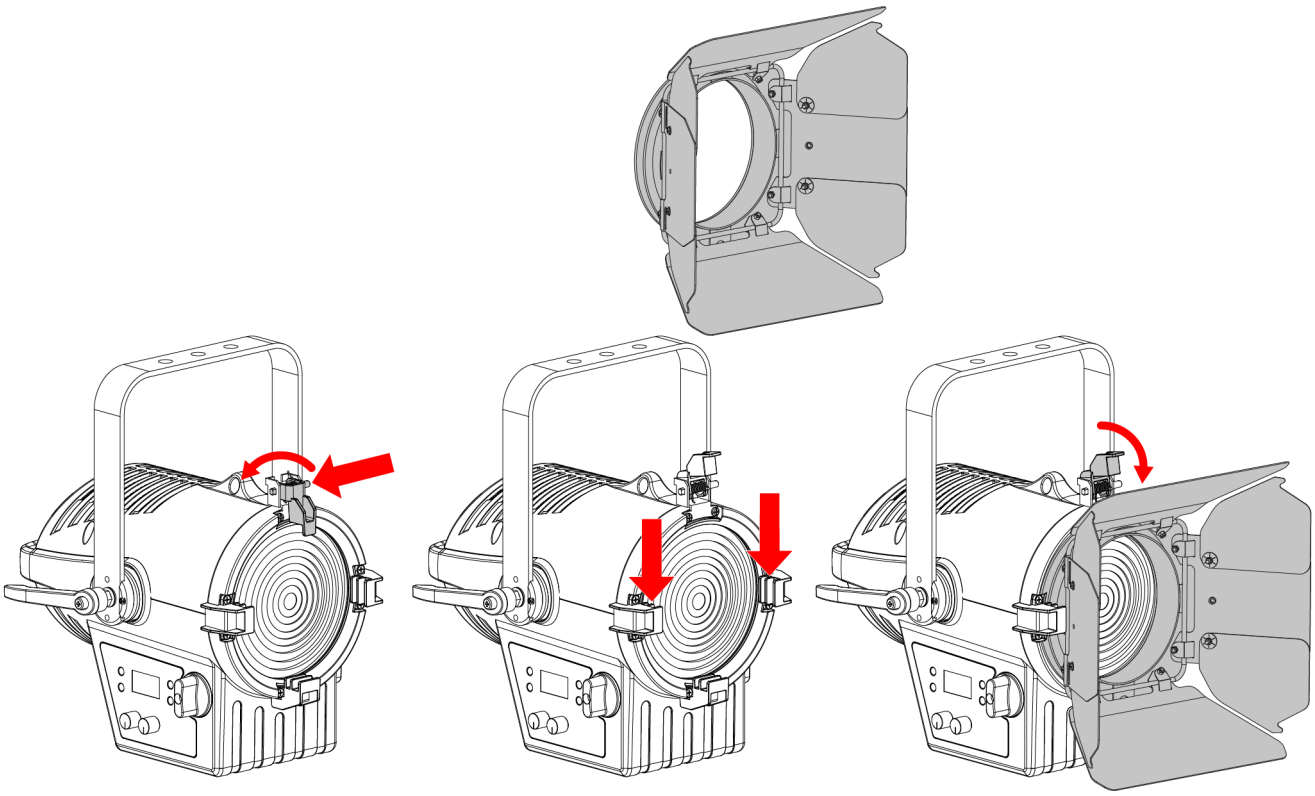
4.7. Barndoor Installation (Optional)

An optional barndoor (see 3.5. Optional Accessories on page 12) is available for use with the Performer Fresnel 1500 Q6 MKII.

To install the barndoor, follow the steps below:

01) Press the spring-loaded screw on the **filter frame clip (04)** and at the same time lift the **filter frame clip (04)** backwards.
02) Insert the barndoor into the **filter frame holders (06)**.
03) Pull the **filter frame clip (04)** downwards to release the spring-loaded screw. The barndoor is locked in position.
04) Secure the barndoor to the overhead structure with an appropriate secondary attachment, for example a safety cable. Put the safety cable through the safety eye of the barndoor.

Figure 8



Note:

Make sure that the barndoor is locked in position with the **filter frame clip (04)** before you use the device.

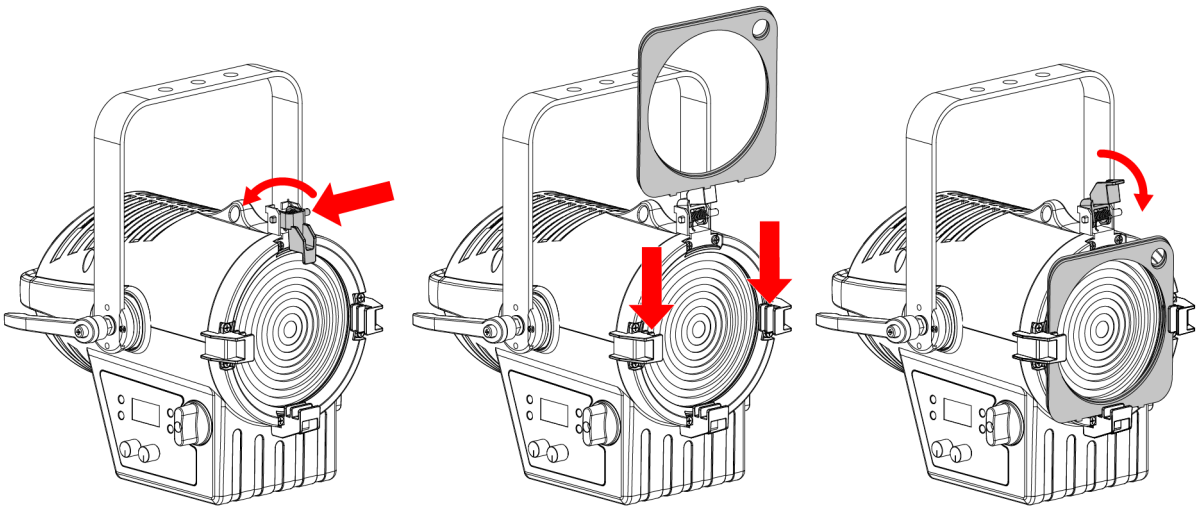
4.8. Filter Frame Installation (Optional)

An optional filter frame (see 3.5. Optional Accessories on page 12) is available for use with the Performer Fresnel 1500 Q6 MKII. You can insert a color gel or a diffusion filter into the filter frame.

To install the filter frame, follow the steps below:

01) Press the spring-loaded screw on the **filter frame clip (04)** and at the same time lift the **filter frame clip (04)** backwards.
02) Insert a color gel or a diffusion filter into the filter frame.
03) Insert the filter frame into the **filter frame holders (06)**.
04) Pull the **filter frame clip (04)** downwards to release the spring-loaded screw. The filter frame is locked in position.
05) Secure the filter frame to the overhead structure with an appropriate secondary attachment, for example a safety cable. Put the safety cable through the safety eye of the filter frame.

Figure 9



Note:

Make sure that the filter frame is locked in position with the **filter frame clip (04)** before you use the device.

4.9. Connecting to Power Supply



DANGER
Electric shock caused by short-circuit

The device accepts AC mains power at 100–240 V and 50/60 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:
- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has a ground (earth) connection.

Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

4.10. Power Linking of Multiple Devices

This device supports power linking. Power can be relayed to another device via the power OUT connector. Note that the input and the output connectors have different designs: one type cannot be connected to the other.

Power linking of multiple devices must be carried out only by instructed or skilled persons.



WARNING
Incorrect power linking may lead to overload of the electrical circuit and result in serious injuries and damage of property.

To prevent overload of the electrical circuit, when power linking multiple devices:

- Use cables with sufficient current-carrying capacity. The power cable supplied with the device is not suitable for power linking of multiple devices.
- Make sure that the total current draw of the device and all connected devices does not exceed the rated capacity of the power cables and the circuit breaker.
- Do not link more devices on one power link than the maximum recommended number.

Maximum recommended number of devices:
- at 100–120 V: 5 devices Performer Fresnel 1500 Q6 MKII
- at 200–240 V: 10 devices Performer Fresnel 1500 Q6 MKII

5. Setup

5.1. Warnings and Precautions



Attention
Connect all data cables before supplying power.
Disconnect power supply before connecting or disconnecting data cables.

5.2. Stand-alone Setup

When the Performer Fresnel 1500 Q6 MKII is not connected to a controller or to other devices, it functions as a stand-alone device. You can operate it manually via the control panel in the Static menu.

For more information refer to Control and Operation Modes (see 6.3. Control Modes on page 22).

5.3. DMX Connection

5.3.1. DMX-512 Protocol

You need a DMX serial data link to run light shows of one or more devices using a DMX-512 controller.

The Performer Fresnel 1500 Q6 MKII has 5-pin DMX signal IN and OUT connectors.

The pin assignment is as follows: pin 1 (ground), pin 2 (-), pin 3 (+), pin 4 (N/C), pin 5 (N/C).

Devices on a serial data link must be daisy-chained in a single line. The number of devices that you can control on one data link is limited by the combined number of the DMX channels of the connected devices and the 512 channels available in one DMX universe.

To comply with the TIA-485 standard, no more than 32 devices should be connected on one data link. In order to connect more than 32 devices on one data link, you must use a DMX optically isolated splitter/booster, otherwise this may result in deterioration of the DMX signal.

Note:

- Maximum recommended DMX data link distance: 300 m
- Maximum recommended number of devices on a DMX data link: 32 devices

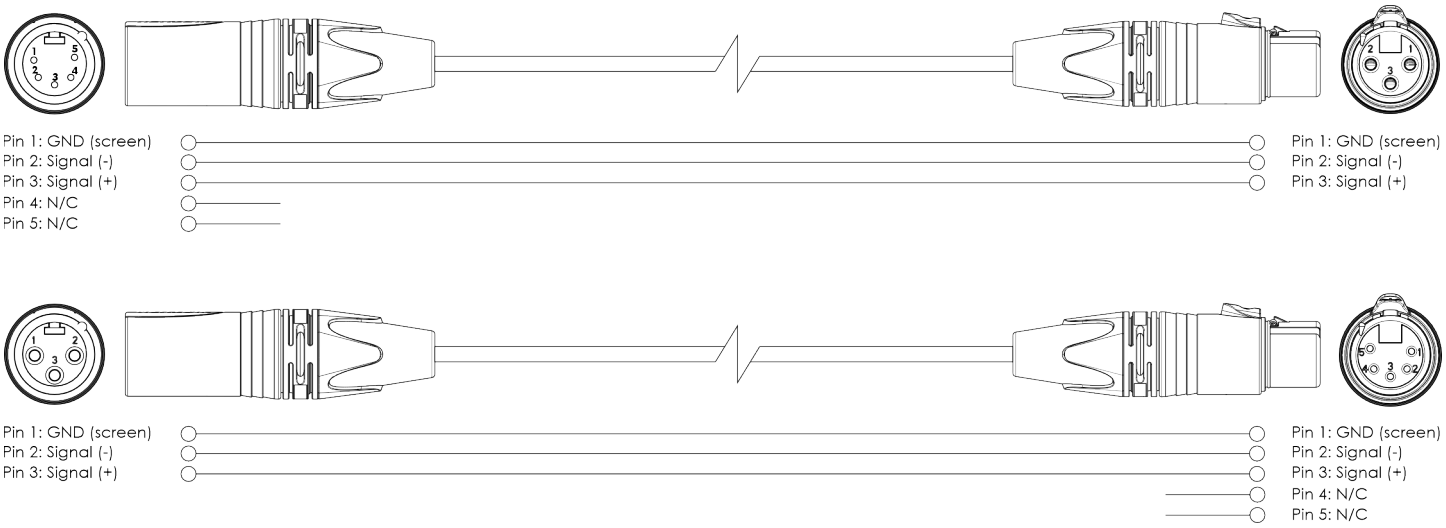
5.3.2. DMX Cables

Shielded twisted-pair cables with 5-pin XLR connectors must be used for reliable DMX connection. You can purchase DMX cables directly from your Highlite International dealer or make your own cables.

If you use XLR audio cables for DMX data transmission, this may lead to signal degradation and unreliable operation of the DMX network.

When you make your own DMX cables, make sure that you connect the pins and wires correctly as shown in the figure below.

Figure 10

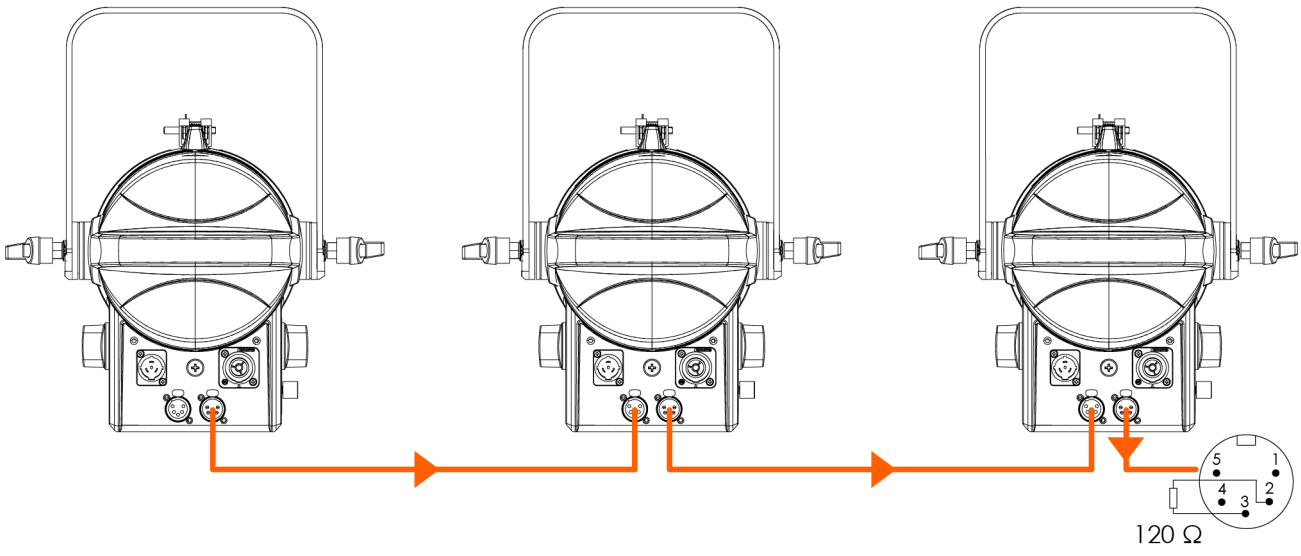


5.3.3. Master/Slave Setup

The Performer Fresnel 1500 Q6 MKII supports master/slave control mode. To connect multiple devices in a master/slave setup, follow the steps below:

01) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 5-pin DMX cable.
02) Repeat step 1 to connect all devices in a daisy-chain.
03) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.
04) Set all devices on the daisy-chain, except the 1st device, to SLAVE in the Run Mode menu (see 6.7.4. Run Mode on page 30).

Figure 11

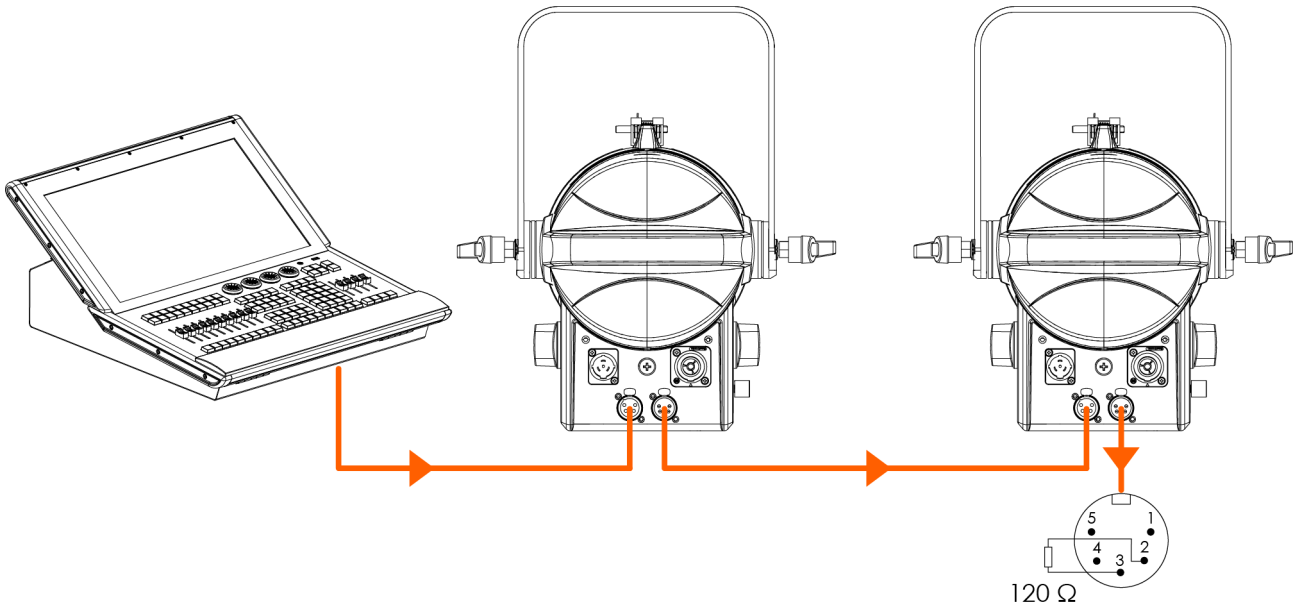


5.3.4. DMX Linking

To connect multiple devices on one DMX data link, follow the steps below:

01) Use a 5-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the 1st device.
02) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 5-pin DMX cable.
03) Repeat step 2 to connect all devices in a daisy-chain.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.

Figure 12



5.3.5. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Performer Fresnel 1500 Q6 MKII has 6 personalities: BASIC (3 channels), HSIC (7 channels), SSP (8 channels), CMY (10 channels), TOUR (13 channels) and TR16 (20 channels).

If you want to connect multiple devices on one data link and use them in 20-channel mode, for example, follow the steps below:

01) Set the starting address of the 1st device on the data link to 1 (001).
02) Set the starting address of the 2nd device on the data link to 21 (021), as 1 + 20 = 21.
03) Set the starting address of the 3rd device on the data link to 41 (041), as 21 + 20 = 41.
04) Continue assigning the starting addresses of the remaining devices by adding 20 to the previous number each time.

Note:

Make sure that you do not have any overlapping channels in order to control each Performer Fresnel 1500 Q6 MKII correctly. If two or more devices have the same DMX starting address, they operate in the same way.

6. Operation

6.1. Safety Instructions for Operation

Attention
This device must be used only for the purposes it is designed for.

This device is intended for professional use as a stage light effect. It can be installed only indoors. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

Attention
Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

6.2. Turning ON/OFF

When the device is connected to the power supply, the device is turned on. To turn the device off, disconnect the power supply.

6.3. Control Modes

The Performer Fresnel 1500 Q6 MKII supports the following control modes:
- Stand-alone: Static mode, knob mode
- Master/slave: Static mode, knob mode
- DMX: 3, 7, 8, 10, 13 or 20 channels

For more information about how to connect the devices, refer to Setup (see 5. Setup on page 19).

To operate the device manually as a stand-alone device or in a master/slave setup:

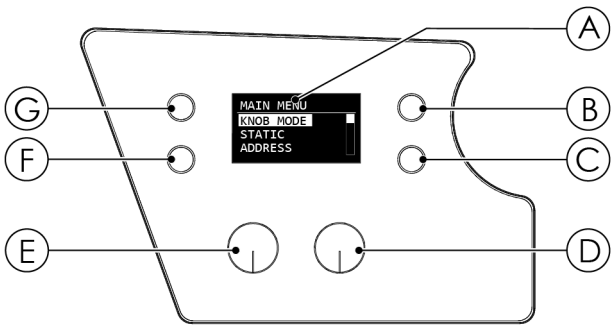
- Adjust the dimmer and CCT values in the Knob Mode menu (see 6.7.1. Knob Mode on page 28).
- Adjust the settings in the Static menu (see 6.7.2. Static on page 29).

To operate the device with a DMX controller:

01) Select DMX as control mode in the Run Mode menu (see 6.7.4. Run Mode on page 30).
02) Set the DMX starting address of the device in the Address menu (see 6.7.3. Address on page 29).
03) Select the DMX channel mode in the Personality menu. Refer to DMX channels (see 6.8. DMX Channels on page 38) for a complete overview of all DMX channels.

6.4. Control Panel

Figure 13

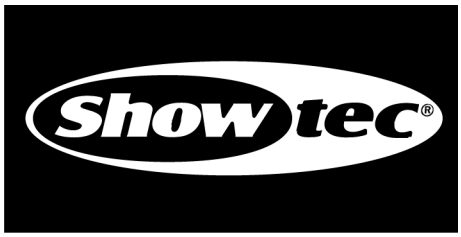


A) LCD display
B) UP button
C) DOWN button
D) CCT control knob
E) Dimmer control knob
F) ENTER button
G) MENU button

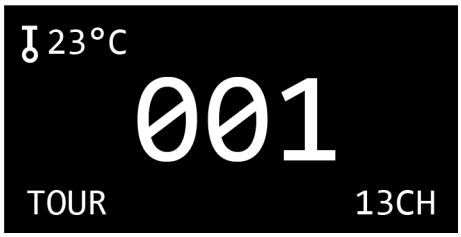
- Use the **UP/DOWN** buttons to navigate through the menus and submenus or to increase/decrease numeric values.
- Use the **CCT control knob** to adjust the CCT setting.
- Use the **Dimmer control knob** to adjust the dimmer setting.
- Use the **ENTER** button to open the desired menu, to confirm your choice or to set the currently selected value.
- Use the **MENU** button to exit the current submenu, to return to the main menu and to return to the start screen.

6.5. Start-up

Upon start-up, the display shows a splash screen with the Showtec logo.



Immediately afterwards, the display goes black. Press the **MENU** button to show the start screen.



The start screen provides information about the temperature of the LEDs, the currently selected run mode, the DMX starting address and the current DMX personality of the device.

Press the **ENTER** button to access the main menu. By default the display of the device is locked. Unlock the display to access the main menu (see 6.5.1. Password Input).

Note:

If no button is pressed, after 30 seconds the backlight of the display turns off. You can change this setting in the Setting menu (see 6.7.8. Setting on page 33).

6.5.1. Password Input

Enter the password to unlock the display.

01) Press the **UP/DOWN** buttons in the following order: **UP**, **DOWN**, **UP**, **DOWN**.
02) Press the **ENTER** button to confirm.

Note:

- If no button is pressed, after 25 s the display turns off. Enter the password to unlock the display. If the display lock is turned off, press any button to turn the display on.
- You can disable the display lock in the Setting menu (see 6.7.8. Setting on page 33).
- You cannot disable the lock for the locked submenus: Upload and Setting.

6.6. Menu Overview

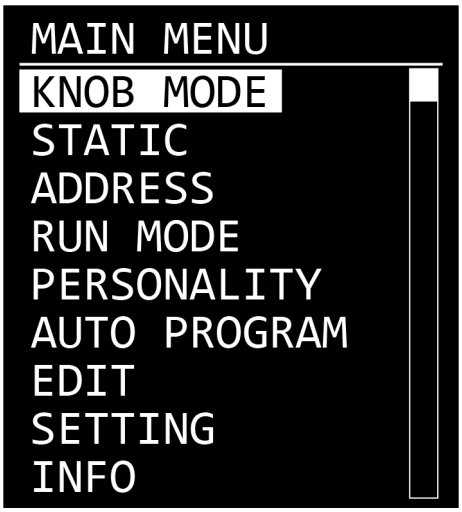
Level 1	Level 2	Level 3	Level 4	Level 5
KNOB MODE (see 6.7.1. Knob Mode on page 28)	DIMMER	0–100%		
	CCT	1800K		
		2200K		
		2700K		
		3000K		
		3200K		
		4000K		
		4500K		
		5000K		
		5600K		
		6000K		
		6500K		
		7000K		
		8000K		
		10000K		
STATIC (see 6.7.2. Static on page 29)	RED	0–255		
	GREEN	0–255		
	BLUE	0–255		
	AMBER	0–255		
	LIME	0–255		
	CYAN	0–255		
	STROBE	0–25		
	COLOR	NONE		
		COL 1		
		…		
		COL 48		
	CCT	NONE		
		1800K		
		2200K		
		2700K		
		3000K		
		3200K		
		4000K		
		4500K		
		5000K		
		5600K		
		6000K		
		6500K		
		7000K		
		8000K		
		10000K		
ADDRESS (see 6.7.3. Address on page 29)	001–510/507/506/503/500/493 depending on Channel mode			
RUN MODE (see 6.7.4. Run Mode on page 30)	DMX			
	SLAVE			
PERSONALITY (see 6.7.5. Personality on page 30)	BASIC			

Level 1	Level 2	Level 3	Level 4	Level 5
	SSP			
	TOUR			
	TR16			
	HSIC			
	CMY			
AUTO PROGRAM (see 6.7.6. Auto Program on page 31)	AUTO1	SPEED	0–255	
	AUTO2	SPEED	0–255	
	AUTO3	SPEED	0–255	
	AUTO4	SPEED	0–255	
	AUTO5	SPEED	0–255	
	AUTO6	SPEED	0–255	
	AUTO7	SPEED	0–255	
	AUTO8	SPEED	0–255	
	AUTO9	SPEED	0–255	
	AUTO10	SPEED	0–255	
	PROGRAM1			
	PROGRAM2			
EDIT (see 6.7.7. Edit on page 31)	PROGRAM1	SCENE-01	RED	0–255
			GREEN	0–255
			BLUE	0–255
			AMBER	0–255
			LIME	0–255
			CYAN	0–255
			STROBE	0–25
			TIME	0–255
			FADE	0–255
		…		
		SCENE-10		
	PROGRAM2	SCENE-01	RED	0–255
			GREEN	0–255
			BLUE	0–255
			AMBER	0–255
			LIME	0–255
			CYAN	0–255
			STROBE	0–25
			TIME	0–255
			FADE	0–255
		…		
		SCENE-10		
	UPLOAD	U > D > U > D	SEND…	

Level 1	Level 2	Level 3	Level 4	Level 5
SETTING (see 6.7.8. Setting on page 33) **(U > D > U > D)**	RESET	U > D > U > D	RESET...	
	DIMMER	DIM4		
		OFF		
	DIMMING CURVES	LINEAR		
		SQUARE LAW		
		INV. SQ LAW		
		S-CURVE		
	TUNGSTEN FADE	ON		
		OFF		
	DMX ERROR	SAVE		
		BLACK		
	PWM_RATE	1200HZ		
		2400HZ		
		4000HZ		
		6000HZ		
		25000HZ		
	PERFORM	LIVE		
		POWER		
		STUDIO		
	DISP KEY	ON		
		OFF		
	DISP TIME	ON		
		10s		
		30s		
		2min		
	Color Cali	OFF		
		User Calib	RED	0–255
			GREEN	0–255
			BLUE	0–255
			AMBER	0–255
			LIME	0–255
			CYAN	0–255
		Factory Calib		
INFO (see 6.7.9. Info on page 37)	FIXTURE HOURS			
	VERSION			
	RDM	UID	29B4:11Fxxxxx	
		LABEL	Performer Fresnel 1500 Q6 MKII	

6.7. Main Menu Options

The main menu has the following options:



Knob Mode
Static
Address
Run Mode
Personality
Auto Program
Edit
Setting
Info

01) Press the **UP/DOWN** buttons to navigate through the menu.
02) Press the **ENTER** button to open submenus.

Notes:

- Press the **Dimmer control knob** 2 times in any screen to open the Knob Mode (see 6.7.1. Knob Mode) menu directly.
- Some of the submenus require a password (see 6.5.1. Password Input on page 24).

6.7.1. Knob Mode

In this menu you can adjust the dimmer and CCT values with the control knobs.



01) Turn the **Dimmer control knob** to adjust the dimmer from dark to brightest (0–100%).
02) Press the **Dimmer control knob** to confirm the selection.
03) Turn the **CCT control knob** to adjust the color temperature (1800 K/2200 K/2700 K/3000 K/3200 K/4000 K/ 4500 K/5000 K/ 5600 K/6000 K/6500 K/7000 K/8000 K/10000 K).
04) Press the applicable control knob to save your setting.

6.7.2. Static

In this menu you can manually adjust the intensity and beam angle of the light output.

01) Press the **UP/DOWN** buttons to select one of the 9 options:



- RED: Set the intensity of the red LED color (0–255)
- GREEN: Set the intensity of the green LED color (0–255)
- BLUE: Set the intensity of the blue LED color (0–255)
- AMBER: Set the intensity of the amber LED color (0–255)
- LIME: Set the intensity of the lime LED color (0–255)
- CYAN: Set the intensity of the cyan LED color (0–255)
- STROBE: Set the strobe, from OFF to high frequency (0–25)
- PRESET COLOR: Set a preset color (see 6.8.5. Preset Colors on page 43)
- CCT: Set the color temperature for the device. You can set no color temperature (NONE) or one of 14 specific temperature in the range of 1800 K to 10000 K. For the full list of available color temperatures, refer to the Menu Overview (see 6.6. Menu Overview on page 25)

02) Press the **ENTER** button to confirm the selection.
03) Press the **UP/DOWN** buttons to increase/decrease the value.
04) Press the **ENTER** button to confirm the setting and select the next option in the list.

Note:

When you use static mode, do not leave the Static menu. If you leave the Static menu, the device goes back to the selected run mode.

6.7.3. Address

In this menu you can select the DMX starting address of the device.

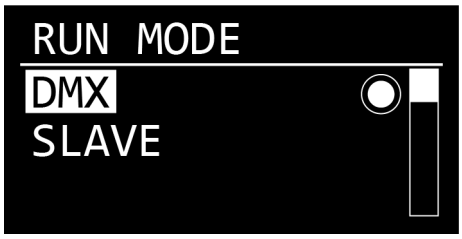


01) Press the **UP/DOWN** buttons to select the DMX starting address of the device. The selection range depends on the active DMX personality:
    - BASIC: 001–510 (3 channels)
    - SSP: 001–505 (8 channels)
    - TOUR: 001–500 (13 channels)
    - TR16: 001–493 (20 channels)
    - HSIC: 001–506 (7 channels)
    - CMY: 001–503 (10 channels)
02) Press the **ENTER** button to confirm the selection.

6.7.4. Run Mode

In this menu you can select the control mode of the device.

01) Press the **UP/DOWN** buttons to select one of the 2 options:



- DMX: Operate the device with a light controller. The device acts as a master device
- SLAVE: Operate the device as a slave device in a master/slave setup

02) Press the **ENTER** button to confirm the selection.

6.7.5. Personality

In this menu you can select the DMX personality of the device.

01) Press the **UP/DOWN** buttons to select one of the 6 options:



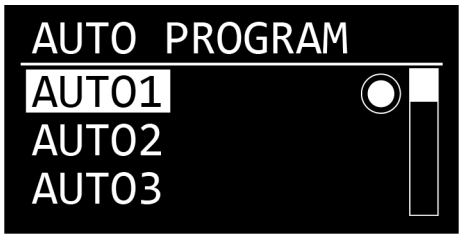
- BASIC: 3 channels
- SSP: 8 channels
- TOUR: 13 channels
- TR16: 20 channels
- HSIC: 7 channels
- CMY: 10 channels

02) Press the **ENTER** button to confirm the selection.

6.7.6. Auto Program

In this menu you can select an automatic operation mode for the device.

01) Press the **UP/DOWN** buttons to select one of the 12 options:



- AUTO1–AUTO10: Set the device to a built-in program
- PROGRAM 1–PROGRAM 2: Set the device to a user-defined program

02) Press the **ENTER** button to confirm the selection.
03) (For AUTO1–AUTO10) Press the **UP/DOWN** buttons to select a speed for the program (0–255).
04) Press the **ENTER** button to confirm the selection.

Note:

When you use an automatic operation mode, do not leave the Auto Program menu. If you leave the Auto Program menu, the device goes back to the selected run mode.

6.7.7. Edit

In this menu you can edit the user-defined programs of the device.

01) Press the **UP/DOWN** buttons to select one of the 3 options:



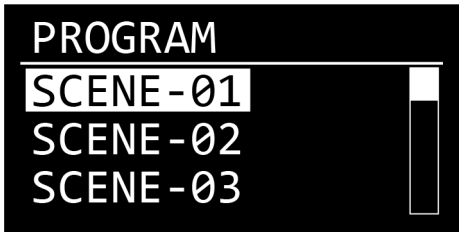
- PROGRAM1–PROGRAM2 (see 6.7.7.1. Program 1–Program 2)
- UPLOAD (see 6.7.7.2. Upload)

02) Press the **ENTER** button to confirm the selection.

6.7.7.1. Program 1–Program 2

In this submenu you can create a user-defined program in 10 scenes.

01) Press the **UP/DOWN** buttons to select one of the 10 options:



02) Press the **ENTER** button to confirm the selection and open the Scene Edit submenu.
03) Press the **UP/DOWN** buttons to select one of the 9 options:



- RED: Set the intensity of the red LED color (0–255)
- GREEN: Set the intensity of the green LED color (0–255)
- BLUE: Set the intensity of the blue LED color (0–255)
- AMBER: Set the intensity of the amber LED color (0–255)
- LIME: Set the intensity of the lime LED color (0–255)
- CYAN: Set the intensity of the cyan LED color (0–255)
- STROBE: Set the strobe, from OFF to highest frequency (0–25)
- TIME: Set the time duration for the current scene in seconds (0–255)
- FADE: Set the fade time for the current scene in seconds. The selection range depends on the active TIME setting

04) Press the **ENTER** button to confirm the setting and select the next option in the list.
05) Press the **MENU** button to return to the Program submenu.
06) Repeat steps 3–5 to program each scene you want to add to the program.
07) Press the **MENU** button again to return to the Edit submenu.
08) Use the Upload option to save the programs (see 6.7.7.2. Upload on page 32) to the Auto Program menu.

6.7.7.2. Upload

In this submenu you can save the user-defined programs to the Auto Program menu.

01) Press the **UP/DOWN** buttons to select the Upload option.
02) Press the **ENTER** button to confirm the selection.
03) Enter the password by pressing the buttons **UP** > **DOWN** > **UP** > **DOWN** to unlock the screen and upload the programs.

Note:

The LEDs of the device illuminate and the screen displays Send... while the uploading process is active. After a few seconds, the device returns to the Edit menu. The programs can now be used from the Auto Program menu.

6.7.8. Setting

In this menu you can adjust the settings of the device.

01) Press the **UP/DOWN** buttons to select one of the 10 options:



- RESET (see 6.7.8.1. Reset on page 33)
- DIMMER (see 6.7.8.2. Dimmer on page 33)
- DIMMING CURVES (see 6.7.8.3. Dimming Curves on page 34)
- TUNGSTEN FADE (see 6.7.8.4. Tungsten Fade on page 35)
- DMX ERROR (see 6.7.8.5. DMX Error)
- PWM_RATE: Set the PWM (Pulse-Width Modulation) rate of the device (1200 Hz/2400 Hz/ 4000 Hz/6000 Hz/25000 Hz)
- PERFORM (see 6.7.8.7. Perform on page 36)
- DISP KEY: Disable or enable the password input for the main menu (OFF/ON)
- DISP TIME: Set the time after which the display turns off (remain on/10 seconds/30 seconds/2 minutes)
- Color Cali (see 6.7.8.8. Color Cali)

02) Press the **ENTER** button to confirm the setting.

6.7.8.1. Reset

In this submenu you can reset the device to the factory settings.

01) Enter the password by pressing the buttons **UP** > **DOWN** > **UP** > **DOWN**.
02) Press the **ENTER** button to confirm the password. When the screen shows 'OK!', the device is reset.

6.7.8.2. Dimmer

In this submenu you can turn the DIM-4 mode on or off.

01) Press the **UP/DOWN** buttons to select one of the 2 options:



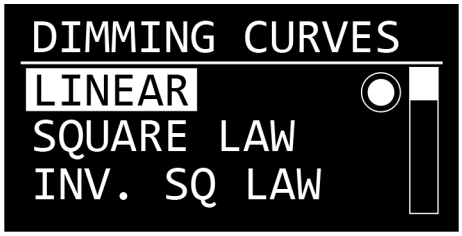
- DIM-4: The LEDs follow the dimming curve with a delay to simulate the effect of a tungsten lamp
- OFF: The LEDs follow the dimming curve immediately

02) Press the **ENTER** button to confirm the setting.

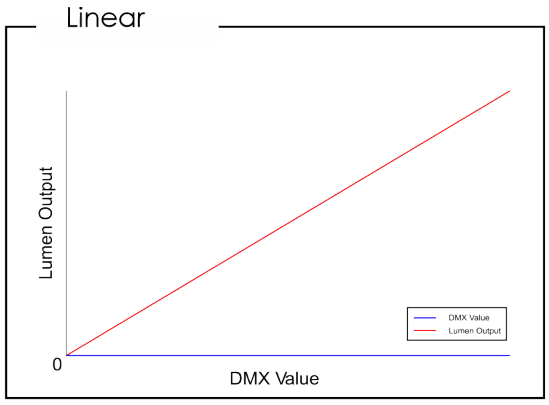
6.7.8.3. Dimming Curves

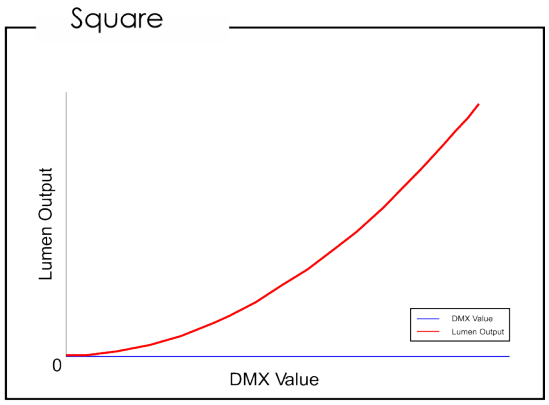
In this submenu you can select the dimming curve. The default setting is SQUARE LAW.

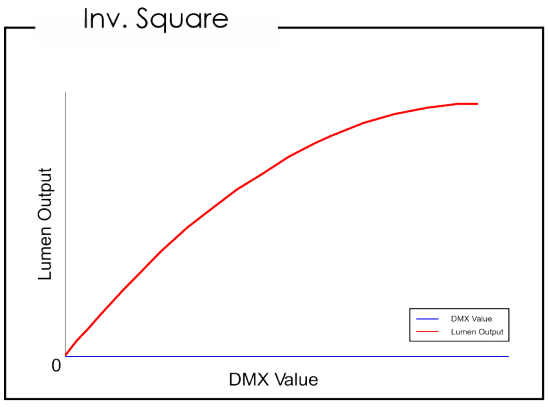
01) Press the **UP/DOWN** buttons to select one of the 4 options:

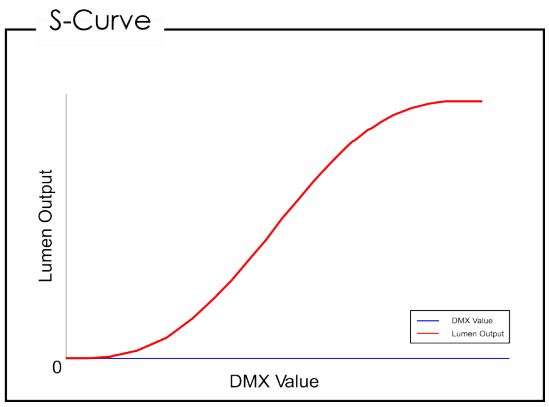


- LINEAR
- SQUARE LAW
- INV. SQ. LAW
- S-CURVE









02) Press the **ENTER** button to confirm the setting.

6.7.8.4. Tungsten Fade

In this submenu you can turn tungsten fade mode ON or OFF.

01) Press the **UP/DOWN** buttons to select one of the 2 options:



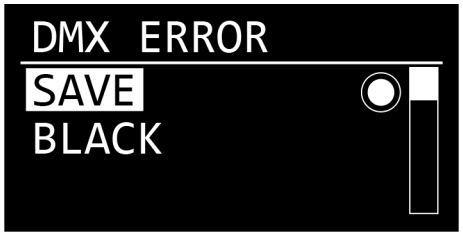
- ON: The LEDs react with a delay to simulate the effect of a tungsten lamp
- OFF: The LEDs react without a delay

02) Press the **ENTER** button to confirm the setting.

6.7.8.5. DMX Error

In this submenu you can determine the behavior of the device in case there is no DMX signal.

01) Press the **UP/DOWN** buttons to select one of the 2 options:



- SAVE: The device uses the last DMX signal received correctly
- BLACK: The device blacks out the light output

02) Press the **ENTER** button to confirm the selection.

6.7.8.6. PWM Rate

In this submenu you can select the PWM (Pulse-Width Modulation) rate of the device.

01) Press the **UP/DOWN** buttons to select one of the 5 options:



- 1200 Hz
- 2400 Hz
- 4000 Hz
- 6000 Hz
- 25000 Hz

02) Press the **ENTER** button to confirm the setting.

6.7.8.7. Perform

In this submenu you can select the performance mode with regard to noise and light output.

01) Press the **UP/DOWN** buttons to select one of the 3 options:



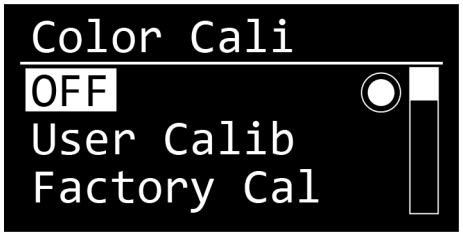
- LIVE: Set the device to balanced mode (default). The device operates with a compromise between noise and light output
- POWER: Set the device to light output mode. The device gives the highest quality light output. The fans turn on to high speed when it is necessary to cool the device
- STUDIO: Set the device to low-noise mode. The fans do not turn on. Instead, the device reduces the light output to cool down

02) Press the **ENTER** button to confirm the setting.

6.7.8.8. Color Cali

In this submenu you can calibrate the color of the LEDs. The built-in calibration is enabled by default. The built-in calibration guarantees that the color rendering, the color temperature and the brightness of the LEDs remain the same despite differences in the temperature of the LEDs or between different production runs of the same device.

01) Press the **UP/DOWN** buttons to select one of the 3 options:



- OFF: Disable the built-in color calibration
- User Calib: Perform a manual color calibration of the LEDs: RED, GREEN, BLUE, AMBER, LIME, CYAN. The adjustment range is 0–255
- Factory Calibration: Use the factory settings

02) Press the **ENTER** button to confirm the selection.

6.7.9. Info

In this menu you can view information about the device.

01) Press the **UP/DOWN** buttons to select one of the 3 options:



- FIXTURE HOURS: View the number of running hours of the fixture
- VERSION: View the current firmware version
- RDM (see 6.7.9.1. RDM)

02) Press the **ENTER** button to view the information.

6.7.9.1. RDM

In this submenu you can view the unique identifier and the device label of the device.

01) Press the **UP/DOWN** buttons to select one of the 2 options:
- UID: View the unique identification number of the device that the RDM controller receives
- LABEL: View the name of the device that the RDM controller receives

02) Press the **ENTER** button to view the information.

6.8. DMX Channels

6.8.1. DMX Channel Overview

Function	BASIC 3 CH	HSIC 7 CH	SSP 8 CH	CMY 10 CH	TOUR 13 CH	TR16 20 CH
Master Dimmer	1		1	1	1	1
Intensity		1				
Master Dimmer Fine						2
Hue		2				
Hue Fine		3				
Saturation		4				
Cyan				2		
Magenta				3		
Yellow				4		
Red			2		2	3
Red Fine						4
Green			3		3	5
Green Fine						6
Blue			4		4	7
Blue Fine						8
Amber			5		5	9
Amber Fine						10
Lime			6		6	11
Lime Fine						12
Cyan			7		7	13
Cyan Fine						14
Preset Color	2			5	8	15
CCT	3	5	3	6	9	16
Auto				7	10	17
Auto Speed Adjustment				8	11	18
Strobe		6	8	9	12	19
Control		7		10	13	20

6.8.2. BASIC (3 Channels), SSP (8 Channels), TOUR (13 Channels), TR16 (20 Channels)

BASIC 3 CH	SSP 8 CH	TOUR 13 CH	TR16 20 CH	Function	Value	Setting
1	1	1	1	Master Dimmer	000–255	From low to high intensity (0–100%)
			2	Master Dimmer Fine	000–255	From low to high intensity (0–100%)
	2	2	3	Red	000–255	From low to high intensity (0–100%)
			4	Red Fine	000–255	From low to high intensity (0–100%)
	3	3	5	Green	000–255	From low to high intensity (0–100%)
			6	Green Fine	000–255	From low to high intensity (0–100%)
	4	4	7	Blue	000–255	From low to high intensity (0–100%)
			8	Blue Fine	000–255	From low to high intensity (0–100%)
	5	5	9	Amber	000–255	From low to high intensity (0–100%)
			10	Amber Fine	000–255	From low to high intensity (0–100%)
	6	6	11	Lime	000–255	From low to high intensity (0–100%)

BASIC 3 CH	SSP 8 CH	TOUR 13 CH	TR16 20 CH	Function	Value	Setting
			12	**Lime Fine**	000–255	From low to high intensity (0–100%)
	7	7	13	**Cyan**	000–255	From low to high intensity (0–100%)
			14	**Cyan Fine**	000–255	From low to high intensity (0–100%)
2		8	15	**Preset Colors**	000–010	No function
					011–255	Preset colors (see 6.8.5. Preset Colors on page 43)
3	3	9	16	**CCT**	000–009	No function
					010–024	1800 K
					025–039	2200 K
					040–054	2700 K
					055–069	3000 K
					070–084	3200 K
					085–099	4000 K
					100–114	4500 K
					115–129	5000 K
					130–144	5600 K
					145–159	6000 K
					160–174	6500 K
					175–189	7000 K
					190–204	8000 K
					205–255	10000 K
		10	17	**Auto**	000–040	No function
					041–050	Auto 1
					051–060	Auto 2
					061–070	Auto 3
					071–080	Auto 4
					081–090	Auto 5
					091–100	Auto 6
					101–110	Auto 7
					111–120	Auto 8
					121–130	Auto 9
					131–140	Auto 10
					141–150	Program 1
					151–160	Program 2
					161–255	No function
		11	18	**Auto Speed Adjustment**	000–255	Auto speed adjustment
	8	12	19	**Strobe**	000–009	No function
					010–099	Strobe, from low to high frequency (0–25 Hz)
					100–109	No function
					110–179	Thunder strobe
					180–189	No function
					190–255	Random strobe
		13	20	**Control**	000–010	No function
					011–060	Reserved
					061–070	Studio
					071–080	Power

BASIC 3 CH	SSP 8 CH	TOUR 13 CH	TR16 20 CH	Function	Value	Setting
					081–090	Live
					091–100	Dimmer speed off
					101–110	Dimmer speed halogen
					111–120	Linear
					121–130	Square law
					131–140	Inv. Square law
					141–150	S-curve
					151–160	1200 Hz
					161–170	2400 Hz
					171–180	4000 Hz
					181–190	6000 Hz
					191–200	25000 Hz
					201–210	All reset
					211–255	Reserved

6.8.3. HSIC (7 Channels)

HSIC 7 CH	Function	Value	Setting
1	**Intensity**	000–255	From low to high intensity (0–100%)
2	**Hue**	000–255	From low to high intensity (0–100%)
3	**Hue Fine**	000–255	From low to high intensity (0–100%)
4	**Saturation**	000–255	From low to high intensity (0–100%)
5	**CCT**	000–009	No function
		010–024	1800 K
		025–039	2200 K
		040–054	2700 K
		055–069	3000 K
		070–084	3200 K
		085–099	4000 K
		100–114	4500 K
		115–129	5000 K
		130–144	5600 K
		145–159	6000 K
		160–174	6500 K
		175–189	7000 K
		190–204	8000 K
		205–255	10000 K
6	**Strobe**	000–009	No function
		010–099	Strobe, from low to high frequency (0–25 Hz)
		100–109	No function
		110–179	Thunder strobe
		180–189	No function
		190–255	Random strobe
7	**Control**	000–010	No function
		011–060	Reserved

HSIC 7 CH	Function	Value	Setting
		061–070	Studio
		071–080	Power
		081–090	Live
		091–100	Dimmer speed off
		101–110	Dimmer speed halogen
		111–120	Linear
		121–130	Square law
		131–140	Inv. Square law
		141–150	S-curve
		151–160	1200 Hz
		161–170	2400 Hz
		171–180	4000 Hz
		181–190	6000 Hz
		191–200	25000 Hz
		201–210	All reset
		211–255	Reserved

6.8.4. CMY (10 Channels)

CMY 10 CH	Function	Value	Setting
1	**Master Dimmer**	000–255	From low to high intensity (0–100%)
2	**Cyan**	000–255	From low to high intensity (0–100%)
3	**Magenta**	000–255	From low to high intensity (0–100%)
4	**Yellow**	000–255	From low to high intensity (0–100%)
5	**Preset Colors**	000–010	No function
		011–255	Preset colors (see 6.8.5. Preset Colors on page 43)
6	**CCT**	000–009	No function
		010–024	1800 K
		025–039	2200 K
		040–054	2700 K
		055–069	3000 K
		070–084	3200 K
		085–099	4000 K
		100–114	4500 K
		115–129	5000 K
		130–144	5600 K
		145–159	6000 K
		160–174	6500 K
		175–189	7000 K
		190–204	8000 K
		205–255	10000 K
7	**Auto**	000–040	No function
		041–050	Auto 1
		051–060	Auto 2
		061–070	Auto 3

CMY 10 CH	Function	Value	Setting
		071–080	Auto 4
		081–090	Auto 5
		091–100	Auto 6
		101–110	Auto 7
		111–120	Auto 8
		121–130	Auto 9
		131–140	Auto 10
		141–150	Custom 1
		151–160	Custom 2
		161–255	No function
8	**Auto Speed Adjustment**	000–255	Auto speed adjustment
9	**Strobe**	000–009	No function
		010–099	Strobe, from low to high frequency (0–25 Hz)
		100–109	No function
		110–179	Lightning strobe
		180–189	No function
		190–255	Random strobe
10	**Control**	000–010	No function
		011–060	Reserved
		061–070	Studio
		071–080	Power
		081–090	Live
		091–100	Dimmer speed off
		101–110	Dimmer speed halogen
		111–120	Linear
		121–130	Square law
		131–140	Inv. Square law
		141–150	S-curve
		151–160	1200 Hz
		161–170	2400 Hz
		171–180	4000 Hz
		181–190	6000 Hz
		191–200	25000 Hz
		201–210	All reset
		211–255	Reserved

6.8.5. Preset Colors

Value	Preset Color	Number
000–010	No function	
011–015	COLOR 1 (Loving Amber)	L176
016–020	COLOR 2 (Light Salmon)	R40
021–025	COLOR 3 (Scarlet)	L24
026–030	COLOR 4 (Flame Red)	L164
031–035	COLOR 5 (Easy White)	L747
036–040	COLOR 6 (Warm Peach)	R303
041–045	COLOR 7 (Dark Salmon)	L08
046–050	COLOR 8 (Sunset Red)	L25
051–055	COLOR 9 (Medium Bastard Amber)	L04
056–060	COLOR 10 (CID (To Tungsten))	L237
061–065	COLOR 11 (Soft Golden Amber)	R321
066–070	COLOR 12 (Urban Sodium)	L652
071–075	COLOR 13 (LCT Yellow (Y1))	L212
076–080	COLOR 14 (LEE Yellow)	L765
081–085	COLOR 15 (Ice And A Slice)	L513
086–090	COLOR 16 (Spring Yellow)	L100
091–095	COLOR 17 (LEE Plus Green)	L244
096–100	COLOR 18 (CalColor 30 Green)	R4430
101–105	COLOR 19 (Fern Green)	L122
106–110	COLOR 20 (Dark Yellow Green)	L90
111–115	COLOR 21 (LEE Fluorescent 3600 K)	L243
116–120	COLOR 22 (Turquoise)	R92
121–125	COLOR 23 (Kelly Green)	R94
126–130	COLOR 24 (Forest Green)	L327
131–135	COLOR 25 (Cosmetic Aqua Blue)	L191
136–140	COLOR 26 (Steel Green)	L728
141–145	COLOR 27 (Steel Blue)	L117
146–150	COLOR 28 (Special Steel Blue)	L354
151–155	COLOR 29 (Paler Lavender)	L53
156–160	COLOR 30 (New Colour Blue)	L501
161–165	COLOR 31 (Dark Steel Blue)	L174
166–170	COLOR 32 (Daylight Blue)	L165
171–175	COLOR 33 (Pale Lavender)	L136
176–180	COLOR 34 (Surprise Pink)	L194
181–185	COLOR 35 (Pale Violet)	L142
186–190	COLOR 36 (Perfect Lavender)	L700
191–195	COLOR 37 (Light Pink)	L35
196–200	COLOR 38 (Pretty'n Pink)	L794
201–205	COLOR 39 (Follies Pink)	L328
206–210	COLOR 40 (Magical Magenta)	L795
211–215	COLOR 41 (Pale Rose)	L154
216–220	COLOR 42 (Smokey Pink)	L127
221–225	COLOR 43 (Flesh Pink)	L192
226–230	COLOR 44 (Special Rose Pink)	L332

Value	Preset Color	Number
231–235	COLOR 45 (Moroccan Pink)	L790
236–240	COLOR 46 (Pink)	L157
241–245	COLOR 47 (Cherry Rose)	R332
246–250	COLOR 48 (Cool LED Bright Pink)	L128
251–255	No function	

6.9. RDM Information

This device supports RDM. Refer to Supported RDM PIDs (see 6.9.2. Supported RDM PIDs (Parameter IDs)) for more information.

6.9.1. RDM Details

- Responder ID: 29B4:11FXXXXX
- Manufacturer's ID: Showtec (Highlite International B.V.)
- Manufacturer Label: Showtec
- Model Description: Performer Fresnel 1500 Q6 MKII
- Model ID: 287 (11F hexadecimal)
- Device Label: Performer Fresnel 1500 Q6 MKII

Note:

An RDM responder ID consists of 3 parts:

- 1st part – 4 digits – Manufacturer's ID
- 2nd part – 3 digits – Model ID
- 3rd part – 5 digits – Unique ID

The RDM responder IDs of all products of Highlite International start with the same 4 digits. The first 7 digits of the RDM responder ID for each model are the same. The last 5 digits are different for each device.

6.9.2. Supported RDM PIDs (Parameter IDs)

RDM Parameter ID	Value	Required	GET	SET
COMMS_STATUS	0x0015		*	*
STATUS_MESSAGES	0x0030		*	
STATUS_ID_DESCRIPTION	0x0031		*	
CLEAR_STATUS_ID	0x0032			*
SUPPORTED_PARAMETERS	0x0050	*	*	
DEVICE_MODEL_DESCRIPTION	0x0080		*	
MANUFACTURER_LABEL	0x0081		*	
DEVICE_LABEL	0x0082		*	*
FACTORY_DEFAULTS	0x0090		*	*
LANGUAGE_CAPABILITIES	0x00A0		*	
LANGUAGE	0x00B0		*	*
DMX_PERSONALITY	0x00E0		*	*
DMX_PERSONALITY_DESCRIPTION	0x00E1		*	
DMX_START_ADDRESS	0x00F0	*	*	*
SENSOR_DEFINITION	0x0200		*	
SENSOR_VALUE	0x0201		*	*
RECORD_SENSORS	0x0202			*
CURVE	0x0343		*	*
CURVE_DESCRIPTION	0x0344	*	*	
MODULATION_FREQUENCY	0x0347		*	*
MODULATION_FREQUENCY_ DESCRIPTION	0x0348	*	*	
DEVICE_HOURS	0x0400		*	*

7. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Make sure that the device is connected to power supply and the cables are plugged in
	Main fuse is blown	• Replace the fuse (see 8.3.1. Replacing the Fuse on page 48)
No light or LEDs cut out intermittently	LEDs are damaged	• Disconnect the device and contact your Highlite International dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect the device. Check the settings and correct if necessary
The device responds erratically	The factory settings of the device are changed	• Reset the parameters of the device to the default factory settings (see 6.7.8.1. Reset on page 33)
The device does not respond to DMX control	The controller is not connected	• Connect the controller
	The signal is reversed. The 5-pin DMX OUT of the controller does not match the DMX IN of the device	• Install a phase-reversing cable between the controller and the device
	The controller is defective	• Try using another controller
The device responds erratically to DMX control	Connections are defective	• Examine connections and cables. Correct defective connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	• Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	• Check address settings and correct if necessary
	In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link	• To find the defective device, bypass one device at a time until normal operation is restored

8. Maintenance

8.1. Safety Instructions for Maintenance



DANGER
Electric shock caused by dangerous voltage inside

Disconnect power supply before servicing or cleaning.

8.2. Preventive Maintenance



Attention
Before each use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

8.2.1. Basic Cleaning Instructions

The external lens of the device must be cleaned periodically in order to optimize the light output. The cleaning schedule depends on the conditions at the site where the device is installed. When smoke or fog machines are used at the site, the device will need more frequent cleaning. On the other hand, if the device is installed in well-ventilated area, it will need less frequent cleaning. To establish a cleaning schedule, examine the device at regular intervals during the first 100 hours of operation.

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 15 minutes.
03) Remove the dust collected on the external surface with dry compressed air and a soft brush.
04) Clean the lens with a damp cloth. Use a mild detergent solution.
05) Dry the lens carefully with a lint-free cloth.
06) Clean the DMX and other connections with a damp cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.
- Make sure that the connections are fully dry before connecting the device to the power supply and to other devices.

8.3. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8.3.1. Replacing the Fuse



DANGER
Electric shock caused by short-circuit

- Do not bypass the thermostatic switch or fuses.
- Replace fuses only with the same type and rating.

Power surges, short-circuit or incorrect electrical power supply may cause a fuse to burn out. If the fuse burns out, the device will not function anymore. If this happens, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 15 minutes.
03) Loosen the fuse cover manually and remove the fuse holder.
04) If the fuse is brown or unclear, it is burned out. Remove the old fuse.
05) Insert a new fuse in the fuse holder. Make sure that the type and the rating of the replacement fuse are the same as the ones specified on the information label of the product.
06) Replace the fuse holder in the opening and tighten the fuse cover.

9. Deinstallation, Transportation and Storage

9.1. Instructions for Deinstallation

WARNING
Incorrect deinstallation can cause serious injuries and damage of property.

- Let the device cool down before dismounting.
- Disconnect power supply before deinstallation.
- Always observe the national and site-specific regulations during deinstallation and derigging of the device.
- Wear personal protective equipment in compliance with the national and site-specific regulations.

9.2. Instructions for Transportation

- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

9.3. Storage

- Clean the device before storing (see 8.2.1. Basic Cleaning Instructions on page 47).
- Store the device in the original packaging, if possible.

10. Disposal



Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

11. Approval

CE

Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.