



DMX Foot 2

DMX Controller

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# 1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under [www.thomann.de](http://www.thomann.de).

### 1.1 Further information

On our website ([www.thomann.de](http://www.thomann.de)) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

### 1.2 Notational conventions

This manual uses the following notational conventions:

**Letterings**

The letterings for connectors and controls are marked by square brackets and italics.

**Examples:** *[VOLUME]* control, *[Mono]* button.

**Displays**

Texts and values displayed on the device are marked by quotation marks and italics.

**Examples:** '*24ch*', '*OFF*'.

**Instructions**

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

**Example:**

- 1.** ▶ Switch on the device.
- 2.** ▶ Press *[Auto]*.
  - ⇒ Automatic operation is started.
- 3.** ▶ Switch off the device.

## 1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
<b>DANGER!</b>	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
<b>NOTICE!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – danger zone.

## 2 Safety instructions

### Intended use

This device is used to control DMX-controlled LED spotlights. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

### Safety



#### **DANGER!**

##### **Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke! Never let children unattended use electrical devices.



#### **NOTICE!**

##### **External power supply**

The device is powered by an external power supply. Before connecting the external power supply, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly the user. Unplug the external power supply before electrical storms occur and when the device is unused for long periods of time to reduce the risk of electric shock or fire.



### **NOTICE!**

#### **Risk of fire**



Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



### **NOTICE!**

#### **Operating conditions**



This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



### **NOTICE!**

#### **Possible staining**



The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt pads or similar.

## 3 Features

Special features of the device:

- Simple foot control for 512 DMX channels
- 2 adjustable pedals (flash or toggle)
- 40 storable presets
- LTP, HTP
- Configuration via buttons and display on the unit
- Adjustable hold, fade-in and fade-out times per pedal
- Floor device, all functions foot-controllable
- Rugged design, ideal for stage use

## 4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.



### **NOTICE!**

#### **Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.



### **NOTICE!**

#### **Possible staining**

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt pads or similar.

**Installing the device**

The device is designed for floor use. Position the unit on a flat, non-slip surface, use a non-slip pad if necessary.

**Connecting the power adapter**

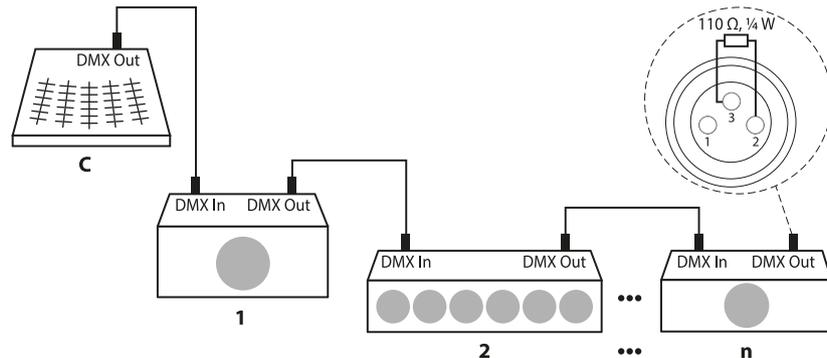
Connect the included 9V power supply unit to the power supply input of the unit and then plug the power cord plug into the wall outlet. The device is immediately operational.

## 5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

### Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



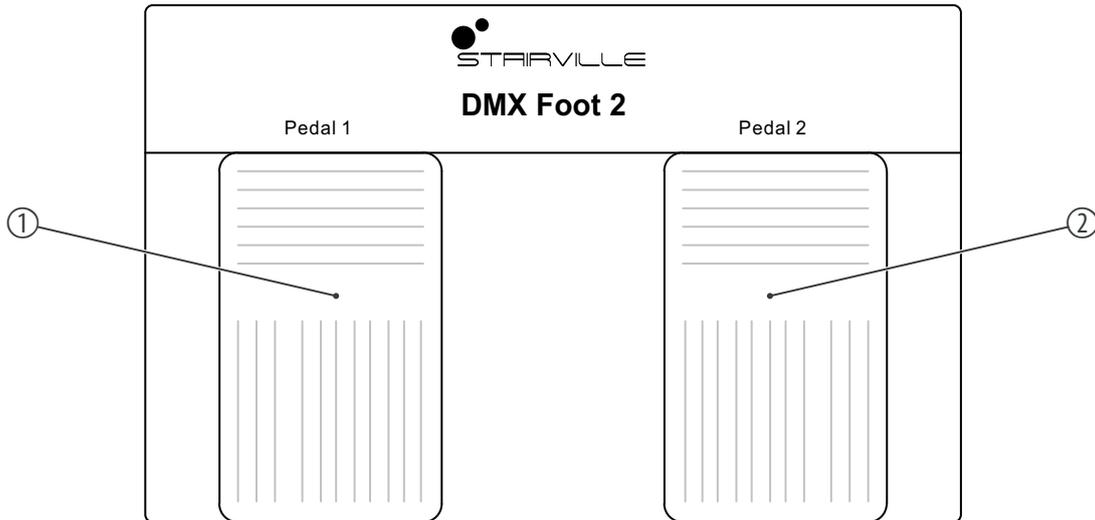
## Signal conversion

Every DMX device operates with a certain vendor specific number of channels through which the incoming control signals are converted into movements, brightness or colour changes, etc.. Since all receivers in a DMX chain always receive all signals, a starting address must be assigned to each DMX device. Starting from this address (a value between 1 and 512), the incoming signals are then interpreted by the receiver and implemented in accordance with the function mode set on the receiver (device-internal channel assignment).

Within a DMX chain, one start address can easily be assigned multiply. The corresponding receivers then operate synchronously (same movements, same brightness, same colour, etc.).

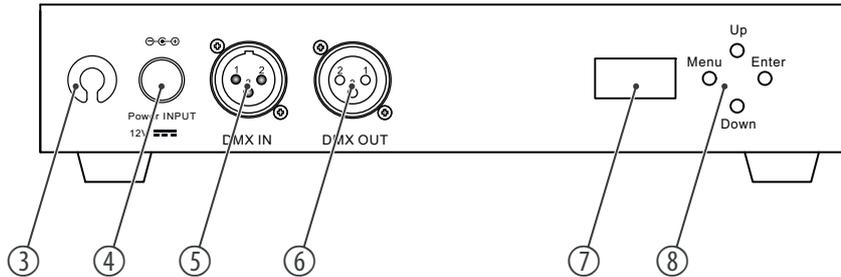
## 6 Connections and operating elements

### Top view



- 1 [Pedal 1]  
Foot switch for controlling the assigned presets in the device memory
- 2 [Pedal 2]  
Foot switch for controlling the assigned presets in the device memory

**Rear panel**



- 3 Securing lug to prevent unintentional pulling out of the 9 V plug-in power supply cable
- 4 [Power INPUT]  
Connection socket for the supplied 9 V power supply unit

5	<i>[DMX IN]</i> DMX input, designed as 3-pin XLR chassis-mounted plug
6	<i>[DMX OUT]</i> DMX output, designed as 3-pin XLR panel socket
7	Display
8	Key panel
	<i>[MENU]</i> Activates the main menu or quits a submenu
	<i>[UP]</i> Increases the displayed value by one or changes between the menu levels
	<i>[DOWN]</i> Decreases the displayed value by one or changes between the menu levels
	<i>[ENTER]</i> Opens a submenu or confirms a value

## 7 Operating

Press *[Up]* or *[Down]* to toggle between the menu items. Confirm the selection with *[Enter]* to restore the selected menu item. Use *[Up]* and *[Down]* to change the respectively displayed value.

Press *[Menu]* to accept the selection and exit the open menu.

## 7.1 Assigning DMX channels and addresses

To assign the DMX channels and DMX addresses of the presets, proceed as follows:

### Preset selection

1. ➤ Press *[Up]* or *[Down]* until the display shows 'PROGRAM' and confirm with *[Enter]*.
2. ➤ Press *[Up]* or *[Down]* until the display shows 'Preset Select' and confirm with *[Enter]*.
3. ➤ Use *[Up]* or *[Down]* to select a value between '01' and '40' that you want to edit. Press *[Menu]* to accept the selection and exit the open menu.

### Saving of presets

4. ➤ Press *[Up]* or *[Down]* until the display shows 'Preset Save' and confirm with *[Enter]*.
5. ➤ Press *[Enter]* ('ENTER to save') to save the preset. Press *[Menu]* to cancel the storage ('MENU to back').
  - ⇒ All present DMX values are saved. The DMX values can also be changed via the menu when a signal is present.

### Selecting DMX channel

6. ➤ Press *[Up]* or *[Down]* until the display shows 'PROGRAM' and confirm with *[Enter]*.
7. ➤ Press *[Up]* or *[Down]* until the display shows 'Channel' and confirm with *[Enter]*.
8. ➤ Use *[Up]* or *[DOWN]* to select a DMX channel between '001' and '512'. Press *[Menu]* to accept the selection and exit the open menu.

### Selecting DMX value

9. ➤ Press *[Up]* or *[Down]* until the display shows 'DMX' and confirm with *[Enter]*.
10. ➤ Use *[UP]* or *[DOWN]* to select a DMX value between '000' and '255' for the selected DMX channel. Press *[Menu]* to accept the selection and exit the open menu.
11. ➤ Repeat steps 1 to 13 to adjust the assignment of the remaining DMX channels and DMX values.



*You can set the DMX values for each channel via the menu or record a present DMX signal at the DMX input.*

## 7.2 Deleting DMX channels and values

To reset the DMX channels and DMX values of the individual presets, proceed as follows:

- 1.** ▶ Press *[Up]* or *[Down]* until the display shows 'PROGRAM' and confirm with *[Enter]*.
- 2.** ▶ Press *[Up]* or *[Down]* until the display shows 'Clear All' and confirm with *[Enter]*.
- 3.** ▶ Press *[Enter]* to delete the DMX values of the selected preset ('ENTER to clear').
  - ⇒ All assigned DMX channels and DMX values of the selected preset have been reset.
- 4.** ▶ Press *[Menu]* to cancel the process.
  - ⇒ The deletion process is cancelled.

## 7.3 Pedal settings

### 7.3.1 Assigning preset

To assign a preset to the footswitches *[Pedal 1]* and *[Pedal 2]*, proceed as follows:

1. ▶ Press *[Up]* or *[Down]* until the display shows 'Pedal1 Setup' or 'Pedal2 Setup' and confirm with *[Enter]*.
2. ▶ Press *[Up]* or *[Down]* until the display shows 'PEDAL1 Preset' or 'PEDAL2 Preset' and confirm with *[Enter]*.
3. ▶ Use *[Up]* or *[Down]* to select a preset between '01' and '40' that you want to assign to *[Pedal 1]* or *[Pedal 2]*. Press *[Menu]* to accept the selection and exit the open menu.  
⇒ The selected preset is now assigned to the selected footswitch *[Pedal 1]* or *[Pedal 2]*.
4. ▶ Repeat steps 1 to 3 to assign a preset to the second footswitch.

## 7.3.2 Footswitch response

To assign the response of the footswitches [*Pedal 1*] and [*Pedal 2*], proceed as follows:

1. ➤ Press [*Up*] or [*Down*] until the display shows '*Pedal1 Setup*' or '*Pedal2 Setup*' and confirm with [*Enter*].
2. ➤ Press [*Up*] or [*Down*] until the display shows '*PEDAL1 Preset*' or '*PEDAL2 Preset*' and confirm with [*Enter*].
3. ➤ Use [*Up*] or [*Down*] to select '*Toggle*' or '*Flash*'. Press [*Menu*] to accept the selection and exit the open menu.

Menu	Response
' <i>Toggle</i> '	Switch: Press the foot switch to play the preset. Press again the foot switch to stop the preset.
' <i>Flash</i> '	Pushbutton: Hold down the foot switch to play the preset. Release the foot switch to stop the preset.

⇒ The selected response is now assigned to the selected footswitch [*Pedal 1*] or [*Pedal 2*].

4. ➤ Repeat steps 1 to 3 to assign the response to the second footswitch.

### 7.3.3 Fade time (fade in or fade out)

To assign the fade time ('*Fade In*' or '*Fade Out*') of the footswitches [*Pedal 1*] and [*Pedal 2*] proceed as follows:

#### Fade In

1. ➤ Press [*Up*] or [*Down*] until the display shows '*Pedal1 Setup*' or '*Pedal2 Setup*' and confirm with [*Enter*].
2. ➤ Use [*Up*] or [*Down*] to select the menu item '*PEDAL1 FadeIn*' or '*PEDAL2 FadeIn*' and confirm with [*Enter*].
3. ➤ Use [*Up*] or [*Down*] to select a value between '*00S*' and '*10S*'. Press [*Menu*] to accept the selection and exit the open menu.  
⇒ The selected Fade-In time is now assigned to the selected footswitch [*Pedal 1*] or [*Pedal 2*].

#### Fade Out

4. ➤ Press [*Up*] or [*Down*] until the display shows '*Pedal1 Setup*' or '*Pedal2 Setup*' and confirm with [*Enter*].
5. ➤ Use [*Up*] or [*Down*] to select the menu item '*PEDAL1 FadeOut*' or '*PEDAL2 FadeOut*' and confirm with [*Enter*].
6. ➤ Use [*Up*] or [*Down*] to select a value between '*00S*' and '*10S*'. Press [*Menu*] to accept the selection and exit the open menu.  
⇒ The selected Fade-Out time is now assigned to the selected footswitch [*Pedal 1*] or [*Pedal 2*].
7. ➤ Repeat steps 1 to 6 to assign the fade time to the second footswitch.

## 7.3.4 Hold time

### Setting hold time

To set the hold time of the footswitches [*Pedal 1*] and [*Pedal 2*], proceed as follows:

1. ▶ Press [*Up*] or [*Down*] until the display shows '*Pedal1 Setup*' or '*Pedal2 Setup*' and confirm with [*Enter*].
2. ▶ Use [*Up*] or [*Down*] to select the menu item '*PEDAL1 HodTime*' or '*PEDAL2 HodTime*' and confirm with [*Enter*].
3. ▶ Use [*Up*] or [*Down*] to select a value between '*01S*' and '*90S*'. Press [*Menu*] to accept the selection and exit the open menu.
  - ⇒ The selected Hold time is now assigned to the selected footswitch [*Pedal 1*] or [*Pedal 2*].
4. ▶ Use [*Up*] or [*Down*] to select the menu item '*ON*' to permanently activate the Hold time. Press [*Menu*] to accept the selection and exit the open menu.
  - ⇒ The Hold time is now permanently activated for the selected footswitch [*Pedal 1*] or [*Pedal 2*], until the footswitch is pressed again.
5. ▶ Repeat steps 1 to 4 to set the Hold time for the second footswitch.



*The Hold time setting is only available for the response type 'Toggle'.*

## 7.4 System settings

### 7.4.1 LTP/HTP

#### LTP (Latest Takes Precedence)

The device has two options for combining DMX signals into a new signal: LTP and HTP.

In LTP mode, the last DMX value has priority.

1. ➤ Press *[Up]* or *[Down]* until the display shows 'System Setup' and confirm with *[Enter]*.
2. ➤ Use *[Up]* or *[Down]* to select the menu item 'LTP / HTP' confirm with *[Enter]*.
3. ➤ Use *[Up]* or *[Down]* to select the menu item 'LTP'. Press *[Menu]* to accept the selection and exit the open menu.
  - ⇒ The LTP mode is activated.

### HTP (High Take Precedence Modus)

In HTP mode, the highest DMX value has priority.

1. ➤ Press *[Up]* or *[Down]* until the display shows 'System Setup' and confirm with *[Enter]*.
2. ➤ Use *[Up]* or *[Down]* to select the menu item 'LTP / HTP' confirm with *[Enter]*.
3. ➤ Use *[Up]* or *[Down]* to select the menu item 'HTP'. Press *[Menu]* to accept the selection and exit the open menu.  
⇒ The HTP mode is activated.

### 7.4.2 Display illumination

Proceed as follows to adjust the display backlight:

1. ➤ Press *[Up]* or *[Down]* until the display shows 'System Setup' and confirm with *[Enter]*.
2. ➤ Use *[Up]* or *[Down]* to select the menu item 'Disp Backlight' confirm with *[Enter]*.
3. ➤ Use *[Up]* or *[Down]* to select the menu item 'ON' (backlight permanently on) or 'OFF' (backlight turns off after 60 seconds). Press *[Menu]* to accept the selection and exit the open menu.

### 7.4.3 Key lock

Proceed as follows to adjust the key lock:

1. ▶ Press *[Up]* or *[Down]* until the display shows 'System Setup' and confirm with *[Enter]*.
2. ▶ Use *[Up]* or *[Down]* to select the menu item 'Display Lock' and confirm with *[Enter]*.
3. ▶ Use *[Up]* or *[Down]* to select the menu item 'ON' (key lock is activated, backlight is switched off) or 'OFF' (key lock is switched off). Press *[Menu]* to accept the selection and exit the open menu.
  - ⇒ When the key lock is activated, the display shows 'Locked'.
4. ▶ Hold down *[Up]* and *[Down]* for three seconds to deactivate the key lock.

## 7.4.4 Combining DMX signals (Merge)

In MERGE mode, the DMX signals for the modes HTP or LTP are combined to form a new signal.

1. ➤ Press *[Up]* or *[Down]* until the display shows 'System Setup' and confirm with *[Enter]*.
2. ➤ Use *[Up]* or *[Down]* to select the menu item 'Merge DMX In' and confirm with *[Enter]*.
3. ➤ Use *[Up]* or *[Down]* to select 'Merge DMX In', 'Merge mode', 'Addr Start' or 'Addr End'. Press *[Menu]* to accept the selection and exit the open menu. The following setting options are available:

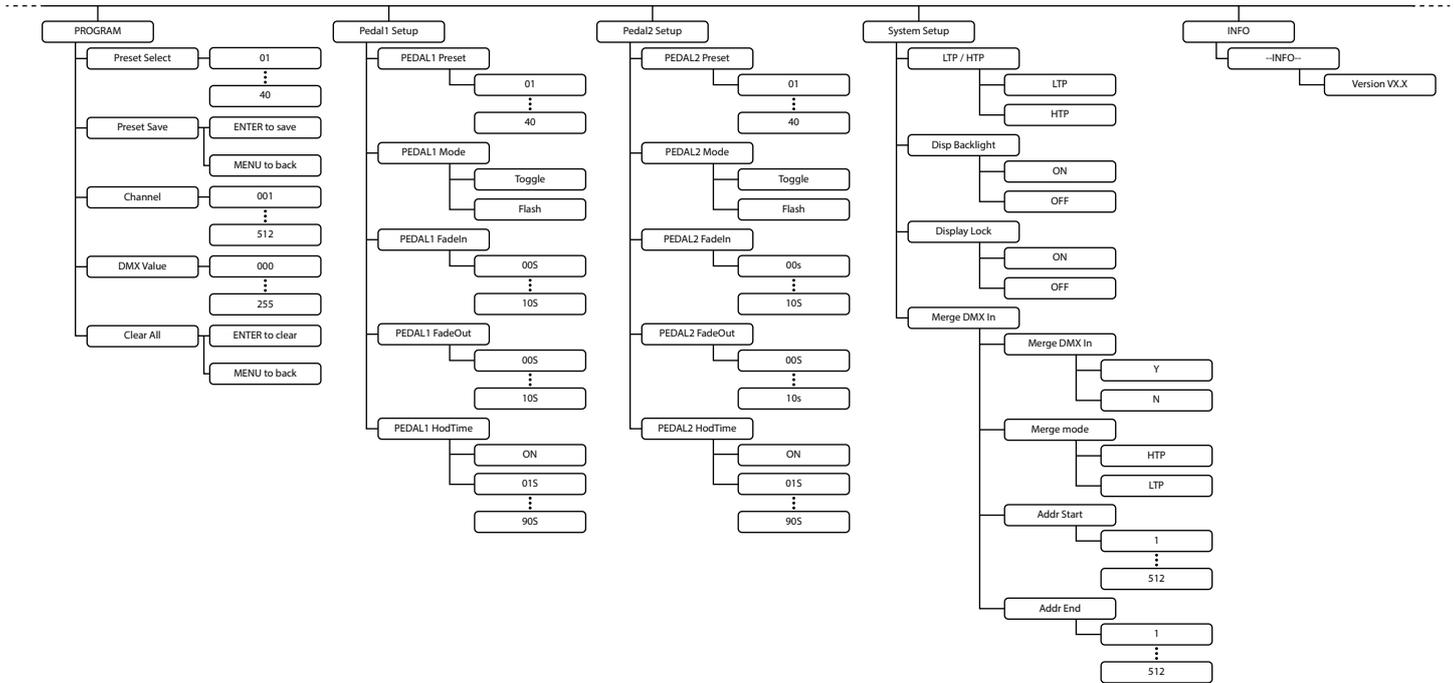
Menu level 2	Menu level 3	
'Merge DMX In'	'Y'	Activate Merger
	'N'	Deactivate Merger
'Merge mode'	'HTP'	The highest DMX value is applied
	'LTP'	The last transmitted DMX value is applied
'Addr Start'	'1' ... '512'	Setting the start address
'Addr End'	'1' ... '512'	Setting the end address

## 7.4.5 Software version

To display the software version, proceed as follows:

- 1.** ▶ Press *[Up]* or *[Down]* until the display shows 'INFO' and confirm with *[Enter]*.  
⇒ The display shows '--INFO--'.
- 2.** ▶ Press *[Enter]*.  
⇒ The display shows the current software version.

## 7.5 Menu overview



## 8 Technical specifications

Number of DMX channels	512	
Input connections	Power supply	12 V plug-in power supply
	DMX control	XLR chassis plug, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	12 V $\overline{\text{---}}$ / 200 mA, centre positive	
Dimensions (W × H × D)	220 mm × 48 mm × 140 mm	
Weight	1.6 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

**Further information**

Variant group	Stairville LED
Preset function	yes
External storage option	no
DMX universes	1
max. control channels	512
Ethernet	no

## 9 Plug and connection assignment

### Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

### DMX connections



The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX-, 'cold signal')
3	Signal (DMX+, 'hot signal')

## 10 Protecting the environment

### Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.









