STAIRVILLE

xBrick Full-Colour 16×3W

LED floodlight

Table of contents

xBrick Full-Colour 16×3W

Table of contents

LED floodlight

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*.

xBrick Full-Colour 16×3W

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1.1 Further information

On our website (*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.

Cross-references

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See .

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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
DANGER!	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.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	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.

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Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

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.

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DANGER!
Electric shock caused by high voltages inside
Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.

DANGER!
Electric shock caused by short-circuit
Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

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

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.

xBrick Full-Colour 16×3W

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!

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.

!

NOTICE!

Power supply

Before connecting the device, 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 injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

!

NOTICE!
Possible damage due to installation of a wrong fuse
The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.

3   Features

- Light source: 16 four-colour LEDs, 3 W
- Control via DMX (5 or 13 channels) as well as buttons and display on the unit
- Automatic mode
- Master / Slave mode
- Sound control

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

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.

WARNING!
Risk of injury caused by falling objects
Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

!

NOTICE!
Risk of overheating

The distance between light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide sufficient ventilation.

The ambient temperature must always be below 40 ℃ (104 ℉).

!

NOTICE!
Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

> **!**
>
> **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.

Mounting options

You can install the unit in hanging or standing position. When in use, the device must always be attached to a solid surface or an approved truss. Use the openings provided on the two-piece bracket for attaching.

Always work from a stable platform whenever installing, moving or servicing the unit. In doing so, the area underneath the unit must be cordoned off.

The safety cable must be threaded through this safety eyelet (⮌ *Chapter 6 'Components and functions' on page 24*).

	Please note that this device must not be connected to a dimmer.

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 Ω, ¼ W).
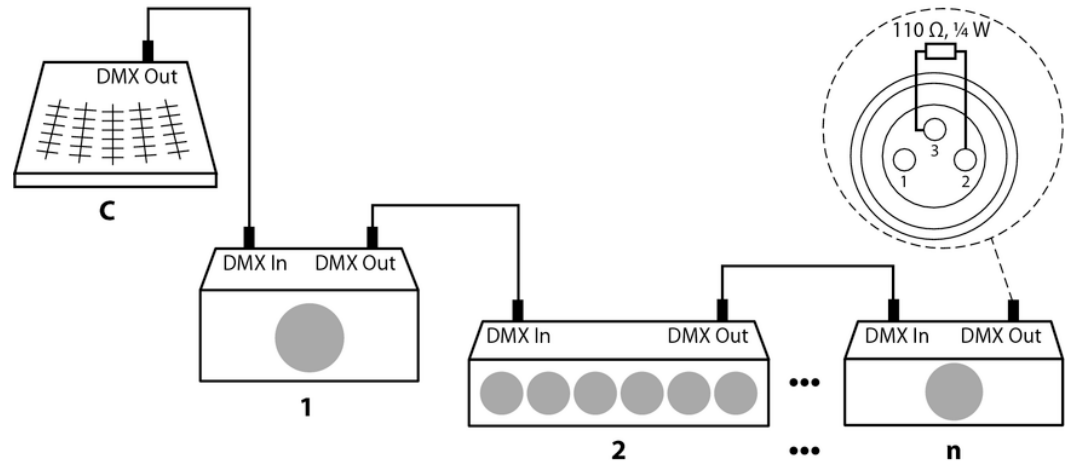
Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

6 Components and functions

Rear panel
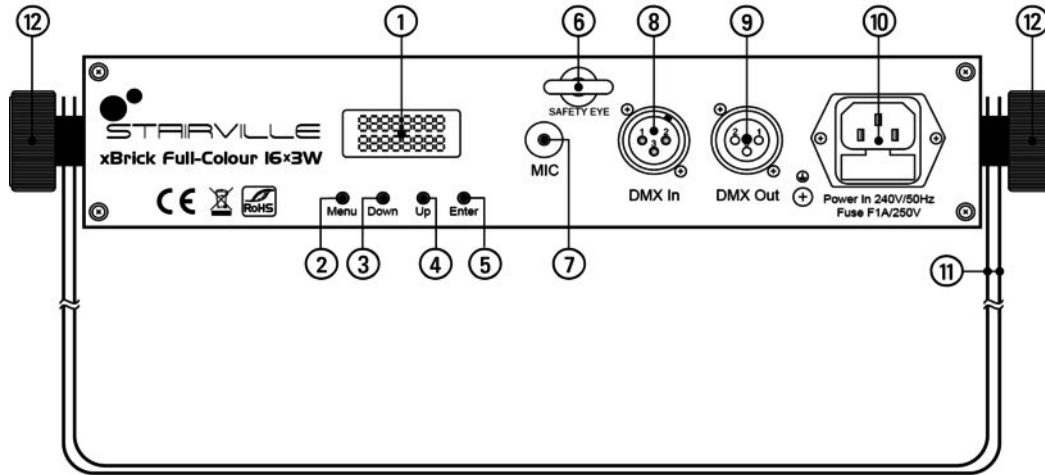
1	Display.
2	*[Menu]* To select the main menu and to store the changes made.
3	*[Down]* Decrements the displayed value by 1
4	*[Up]* Increments the displayed value by one.
5	*[Enter]* Selects an option of the respective operating mode.
6	Eyelet for safety cable.
7	*[MIC]* Microphone for sound control.
8	*[DMX In]* DMX input.

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9	*[DMX Out]* DMX output.
10	*[Power In]* Plug for mains cable with fuse holder next to it. The input voltage range is printed below the plug.
11	Bracket for floor placement or hanging.
12	Locking screws for the mounting brackets.

7 Operating

7.1 Starting the device

Connect the device to the mains power supply, to start operation. After few seconds the display shows, that the unit executes a reset. After that the unit is ready for operation. If it is configured to operate as Master", an automatic light show begins. According to your previous selection, the display show *'Master Sound'* , *'Master Fade'* or *'Master Color'* .

7.2 Main menu

Press *[MENU]* shortly to activate the main menu and select an operating mode. Use the *[Up]* and *[Down]* buttons to change the respectively displayed value. When the display shows the desired value, press *[ENTER]*.

To save your settings/changes, press *[MENU]* for at least two seconds.

If you don't press any button for about 1 minute, the unit returns to the previously selected mode. The set values are retained even when the device is disconnected from the mains power supply.

xBrick Full-Colour 16×3W

DMX address

Press *[MENU]* repeatedly until the display shows *'DMX Address'* . Press *[ENTER]*. Now you can set the number of the first DMX channel to be used by the device (DMX address). Use the *[Up]* and *[Down]* buttons to select a value between 1 and 512.

When the display shows the desired value press *[ENTER]* to return to the main menu.

Make sure that this number matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

Mode	Highest possible DMX address
5-channel	508
13-channel	500

Operating mode „DMX"

Channel
Mode

Press *[MENU]* repeatedly until the display shows *'Channel Mode'* . Press *[ENTER]*. Now use the *[Up]* and *[Down]* buttons to select one of the following DMX operating modes: 5-channel (*'5 Ch Mode'*) or 13-channel (*'13 Ch Mode'*). This setting is only relevant when the device is controlled via DMX.

When the display shows the desired value, press *[ENTER]* to return to the main menu or *[MENU]* for at least two seconds to switch immediately in operation mode „DMX".

Operating mode „Master/Slave"

Slave
Mode

Press *[MENU]* repeatedly until the display shows *'Slave Mode'* . Press *[ENTER]*. Use the *[Up]* and *[Down]* buttons to select *'Master Mode'* , *'Slave1 Mode'* or *'Slave 2 Mode'* .

When the display shows the desired value, press *[ENTER]* to confirm the selection and return to the main menu.

In the operating mode „Master/Slave", the master and the connected devices configured as „Slave 1" operate synchronously. The devices configured as „Slave 2" operate mirror-inverted to the master.

Operating mode „Show"

Show
Mode

The auto show can only be activated on the device that is configured as master.
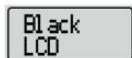
Press *[MENU]* repeatedly until the display shows *'Show Mode'*. Press *[ENTER]*. Use the *[Up]* and *[Down]* buttons to select between

- ◼ *'Sound'* (automatic sound-controlled show),
- ◼ *'Fade'* (automatic show with adjustable fade effect) and
- ◼ *'Color'* (automatic show with fast colour change)

Press in the variation „Fade" *[ENTER]* again. Use the *[Up]* and *[Down]* buttons to select now the speed between 1 (fast) and 9 (slow).

When the display shows the desired value press *[MENU]* for at least two seconds. The device shows an automatic show, the display shows *'Master Sound'*, *'Master Fade'* or *'Master Color'* according to your selection.

LCD background illumination

Black
LCD

Press *[MENU]* repeatedly until the display shows *'Black LCD'*. Press *[ENTER]*. Use the *[Up]* and *[Down]* buttons to select between *'LCDLight On'* and *'LCDLight Off'*.

When the display shows the desired value press *[ENTER]* to return to the main menu.

White balance

White
Balance

For each of the four LED groups you can set separately the composition of the colour white of the primary colours red, green and blue.

Press *[MENU]* repeatedly until the display shows *'White Balance'*. Press *[ENTER]*. Use the *[Up]* and *[Down]* buttons to select between *'Red-1 Balance'*, *'Green-1 Balance'*, *'Blue-1 Balance'*, *'Red-2 Balance'* etc.

When the display shows the desired primary colour and LED group, press *[ENTER]*. Now use the *[Up]* and *[Down]* buttons to select a value between 0 and 255.

When the display shows the desired value, press *[ENTER]*.

Press *[MENU]* to return to the main menu.

Self test

```
Auto
Test
```

Press *[MENU]* repeatedly until the display shows *'Auto Test'*. Press *[ENTER]*. The device now performs a self test and shows successively the primary colours red, green and blue and then white light.

Press *[ENTER]* to end the self test and return to the main menu.

Operating hours display
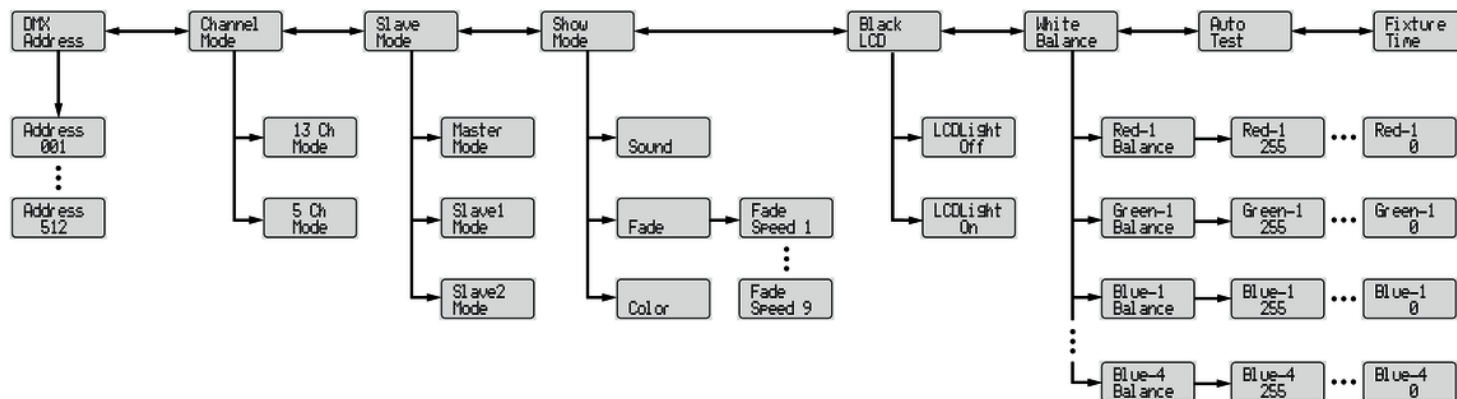
```
Fixture
Time
```

Press *[MENU]* repeatedly until the display shows *'Fixture Time'*. Press *[ENTER]*. The number of operating hours will now appear on the display.

Press *[MENU]* to return to the main menu.

7.3 Menu overview

33

7.4 Functions in 5-channel DMX mode

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %)
2	0…255	Intensity green (0 % to 100 %)
3	0…255	Intensity blue (0 % to 100 %)
4	0…255	Main control (master dimmer, 0 % to 100 %)
5	0…255	Strobe effect (increasing speed)

7.5 Functions in 13-channel DMX mode

In this mode the 16 LEDs are divided into four groups of 4 LEDs each. Each of the channels 1 to 12 controls one basic colour of a group.

Channel	Value	LEDs	Function
1	0…255	1 to 4	Intensity red (0 % to 100 %)
2	0…255		Intensity green (0 % to 100 %)
3	0…255		Intensity blue (0 % to 100 %)
4	0…255	5 to 8	Intensity red (0 % to 100 %)
5	0…255		Intensity green (0 % to 100 %)
6	0…255		Intensity blue (0 % to 100 %)
7	0…255	9 to 12	Intensity red (0 % to 100 %)
8	0…255		Intensity green (0 % to 100 %)
9	0…255		Intensity blue (0 % to 100 %)
10	0…255	13 to 16	Intensity red (0 % to 100 %)
11	0…255		Intensity green (0 % to 100 %)
12	0…255		Intensity blue (0 % to 100 %)
13	0…255		Main control (master dimmer, 0 % to 100 %)

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8   Technical specifications

Light source	16 × 3in1 RGB LED, 3 W each	
Optical properties	Beam angle	30°
Control		DMX
Number of DMX channels		5, 13
Input connections	Voltage supply	IEC chassis plug C14
	DMX control	XLR chassis socket, 3-pin
Output connections	Voltage supply	IEC chassis plug C13
	DMX control	XLR chassis socket, 3-pin
Power consumption		60 W
Supply voltage		100 – 240 V ∼ 50/60 Hz
Fuse		5 mm × 20 mm, 1 A, 250 V, slow-blow
Degree of protection		IP20

Mounting options		Hanging, standing
Dimensions (W × H × D)		310 mm × 175 mm × 72 mm
Weight		3 kg
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non condensing

Further information

Outdoor-ready	No
Colour mixture	RGB
LED type	x-in-1
Fanless	Yes
Remote control	Not possible
Wireless DMX	No
Housing colour	Black

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9 Plug and connection assignments

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 Troubleshooting

> **!** **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.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

The device does not work, no light and the fan does not work.

1. ▶ Check whether the unit is connected to mains power.
2. ▶ Check the mains power fuse.

The device is not responding to DMX controller.

1. ▶ Check the DMX connectors and cables for proper connection.

2. ▶ Check the DMX address settings and polarity.

3. ▶ Try to use another DMX controller.

4. ▶ Check to see if the DMX cables run near or even alongside to high voltage cables that may cause damage or interference to DMX interface circuitry.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

11 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

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12   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.