STAIRVILLE

SonicPulse LED Bar 05,
SonicPulse LED Bar 10

User Manual

LED Bar

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1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under *www.thomann.de*.

1.1 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 document.

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.

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

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for use as an electronic lighting effect by means of LED technology. The device is designed for professional use only and is not suitable for use in households. 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.

Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.

Safety

DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.

DANGER!

Danger to life due to electric current!

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 when covers, safety equipment or optical components are missing or damaged.

DANGER!

Danger to life due to electric current!

A short circuit could lead to a fire hazard and risk of death. Always use proper ready-made insulated triple-core mains cable with a safety plug. Do not modify the mains cable or the plug. In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.

WARNING!

Risk of eye damage caused by high light intensity!

The device generates highly intense light radiation. Looking directly into the light source can damage the eyes. Never look directly into the light source.

WARNING!

Risk of epileptic fit due to flashing lights!

The device emits flashing lights (strobe effects). Flashing lights can trigger epileptic fits in specific people. If you are at risk of epilepsy, avoid spending longer periods of time subjected to flashing lights and looking into strobing light.

NOTICE!

Risk of overheating and fire due to inadequate distance and bad ventilation!

If the distance between the light source and the illuminated surface is too short or the device is badly ventilated, the device can overheat and cause fires. Make sure that illuminated surfaces are more than 2 m away. Do not operate the device in ambient temperatures above 40 °C. Always ensure sufficient ventilation at the operating location.

NOTICE!

Damage to the device if operated in unsuitable ambient conditions!

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the “Technical specifications” chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

NOTICE!

Damage to the device due to high voltages!

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the device from the power grid when storms are approaching or it the device will not be used for a longer period.

NOTICE!

Risk of fire by exceeding the maximum current!

The device can supply power to other devices of identical design and connected in series. If too many devices are connected, the maximum permitted power consumption can be exceeded, which can cause the device to overheat and burst into flames. Only connect devices of identical design to the device. When deciding how many devices you can connect in series, make sure that the maximum output current specified on the device and in the “Technical specifications” chapter of the user manual is not exceeded. Only use power cords with a cable cross-section designed for the required current intensity when connecting the devices in series.

NOTICE!

Risk of fire due to installation of a wrong fuse!

Using fuses of a different type than compatible with the device may cause a fire and seriously damage the device. Only use fuses of the same type. Observe the labelling on the device casing and the information in the "Technical data” chapter.

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device. Take the batteries out of the device if it is not going to be used for an extended period of time.

3 Features

The LED bar is particularly suitable for professional lighting tasks, for example at events, on rock stages, and in theatres and musicals. It is characterized by low power consumption and a long service life.

Special features of the device:

- **SonicPulse LED Bar 05**: 24 × LEDs in eight controllable segments
- **SonicPulse LED Bar 10**: 12 × LEDs in four controllable segments
- Slim unobtrusive design
- Control via DMX (5 different modes), via buttons and display on the device, and via infrared remote control
- 23 pre-programmed automatic shows
- Sound control
- 25 different sound modes
- Master/slave mode
- Strobe effects
- Robust metal housing

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 from falling devices that were inadequately secured!

If devices are not properly secured during assembly, they can cause severe injury and considerable damage by falling.

When installing and operating, make sure to follow the standards and regulations 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 and fire due to inadequate distance and bad ventilation!

If the distance between the light source and the illuminated surface is too short or the device is badly ventilated, the device can overheat and cause fires.

Make sure that illuminated surfaces are more than 2 m away.

Do not operate the device in ambient temperatures above 40 °C.

Always ensure sufficient ventilation at the operating location.

NOTICE!

Potential property damage due to unsuitable stands!

If the device is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage.

Only use stands whose maximum bearing capacity is at least as high as the weight of the device. Always ensure that the stand is stable.

NOTICE!

Data transfer errors due to improper wiring!

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

Mounting options

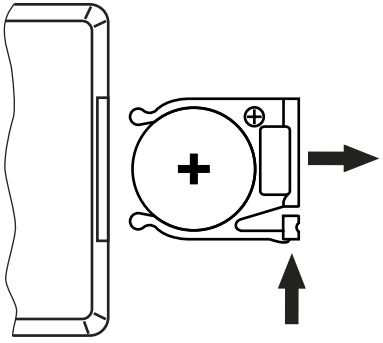
You can install the device in hanging or standing positions. When in use, the device must always be attached to a solid surface or an approved mount. Use the designated openings of the mounting brackets for mounting.

Always work from a stable platform whenever installing, moving or servicing the unit. While you do this, the area underneath the device must be cordoned off.

The safety cable must be attached to both mounting brackets.

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

Inserting the battery into the remote control



Push the lock of the battery holder towards the centre of the housing and pull out the battery holder like a drawer. Insert the batteries. The battery is correct if the positive pole points to the housing base of the remote control. Slide the battery holder back into the remote until it clicks into place.

When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic film. Remove the plastic film before initial use.

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries.

Observe the markings on the batteries and on the device.

Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device.

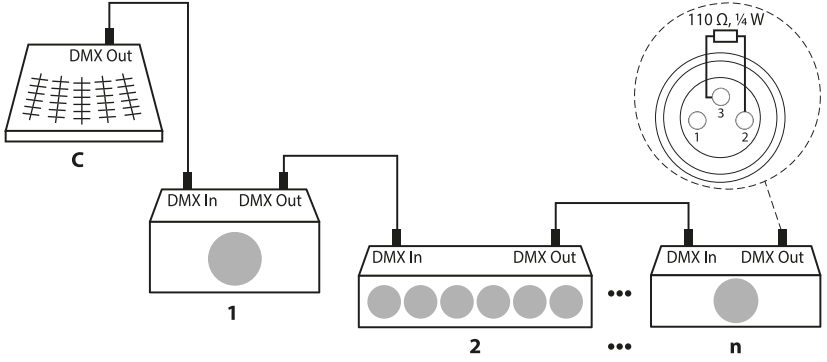
Take the batteries out of the device if it is not going to be used for an extended period of time.

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).



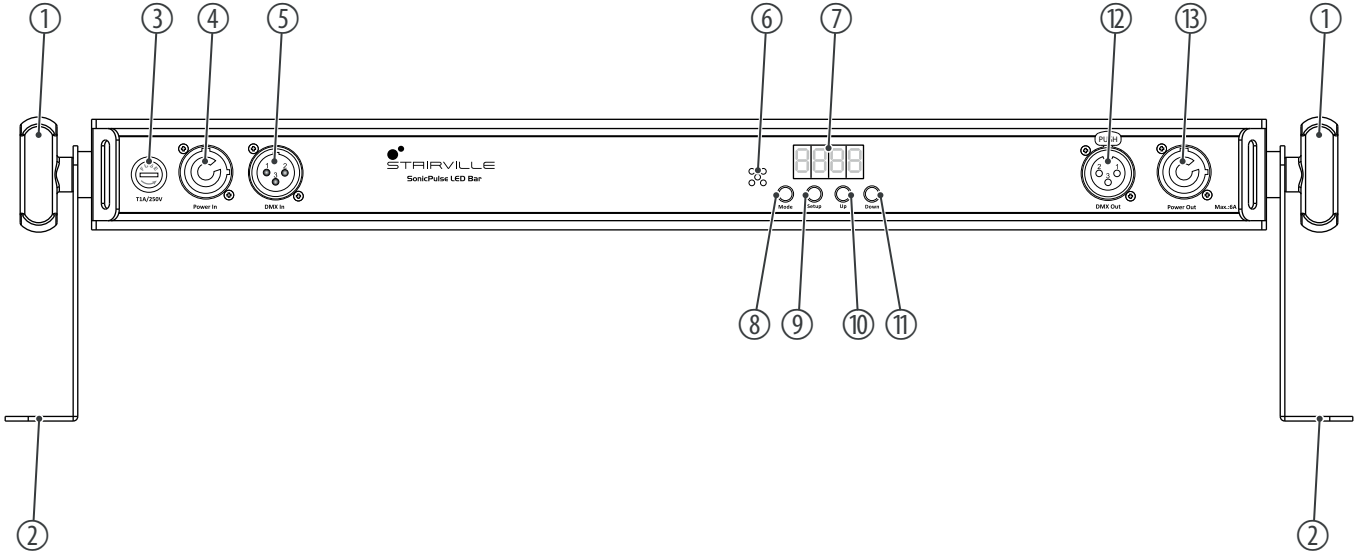
DMX indicator

If the indicator is flashing in “DMX” mode, no DMX signal is being received. The DMX controller may not be on, or the wiring may be incorrect. If the indicator lights up permanently, the device is receiving a valid DMX signal.

Connections in master/slave mode

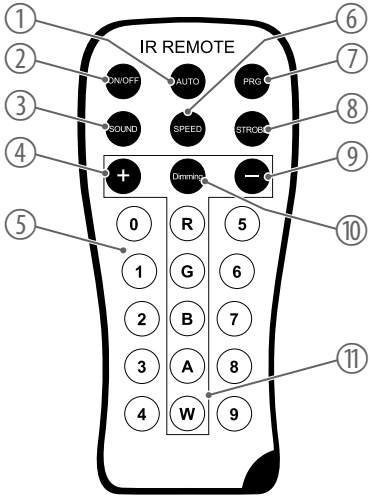
When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave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

6 Connections and controls



1	Locking screw for the mounting bracket
2	Mounting bracket
3	*[T1A/250V]* | Fuse holder
4	*[Power In]* | Lockable input socket (Power Twist) for connection to mains power
5	*[DMX In]* | DMX input, designed as XLR panel plug, 3-pin
6	Built-in microphone for sound control
7	Display
8	*[Mode]* | Activates the main menu and toggles between menu items
9	*[Setup]* | Selects an option of the respective operating mode
10	*[Up]* | Navigates upwards in a menu list, increases the displayed value by one
11	*[Down]* | Navigates downwards in a menu list, reduces the displayed value by one
12	*[DMX Out]* | DMX output, designed as XLR panel socket, 3-pin
13	*[Power Out]* | Lockable output socket (Power Twist) for powering a connected device

Infrared remote control



1	*[AUTO]* | Activates “Automatic” mode.
2	*[ON/OFF]* | Turns the device on and off.
3	*[SOUND]* | Activates “Sound control” mode. Set the sensitivity of the built-in microphone with *[+]* and *[–]*.
4	*[+]* | Increases the set value.
5	*[0 … 9]* | Number buttons for the direct selection of a fixed colour.
6	*[SPEED]* | Activates the setting mode for the programme speed. Adjust the speed using *[+]* and *[–]*.
7	*[PRG]* | Activates the “pre-programmed automatic show” mode. Select the required programme with *[+]* and *[–]*.
8	*[STROBE]* | Activates the setting mode for the strobe speed. Adjust the speed using *[+]* and *[–]*.
9	*[–]* | Decreases the set value.
10	*[Dimming]* | Activates the dimming function for fixed colours. Set the value for each fixed colour using *[+]* and *[–]*.
11	*[R]*, *[G]*, *[B]*, *[A]*, *[W]* | Buttons for selecting the colour shade in dimmer mode.

7 Operation

7.1 Starting the device

Connect the device to the mains to start operation. After a few seconds, the display indicates that a reset is in progress. The device is now operational.

7.2 Main menu

1. Press *[Mode]* to activate the main menu and switch between menu items.
2. Press *[Up]* or *[Down]* to change the respectively displayed value. When the display shows the required value, confirm with *[Setup]*.
3. To exit the menu item without making changes, press *[Mode]*.
4. If you do not press a button for 30 seconds the display turns off. Briefly press *[Mode]*, *[Setup]*, *[Up]* or *[Down]* to switch it on again.
5. To manually switch off the display, simultaneously hold down *[Mode]* and *[Setup]* for three seconds.
6. All previous settings are retained even when you switch the device off and disconnect it from the mains.

7.2.1 Automatic programme

Automatic mode can only be activated if the device is operating in stand-alone mode or as master in a master/slave combination. This setting is only relevant if the device is not controlled via DMX.

1. Press *[Mode]* repeatedly until the display shows *'Auto'*. Confirm with *[Setup]*.

Selecting an automatic programme

2. Press *[Up]* or *[Down]* to select one of the automatic programmes (display *'AU.01'* … *'AU.03'*). Confirm with *[Setup]*.

   The following automatic programmes are available:

Menu level 2	Function
'AU.01'	Effect 2…Effect 8
'AU.02'	Effect 9…Effect 24
'AU.03'	All effects

Setting the programme speed

3. Press *[Up]* or *[Down]* to set the playback speed of the automatic programme to between *'SP.01'* (slow) and *'SP.99'* (fast) or to *'FL81'* (flash effect). Confirm with *[Setup]*.

Setting the strobe frequency

4. Press *[Up]* or *[Down]* to set the strobe frequency of the automatic programme to between *'FS.00'* (slow) and *'FS.99'* (fast). Confirm with *[Setup]*.

5. To exit the menu item without making changes, press *[Mode]*.

7.2.2 Pre-programmed automatic show

A pre-programmed automatic show can only be activated if the device is operating in stand-alone mode or as master in a master/slave combination. This setting is only relevant if the device is not controlled via DMX.

1. Press *[Mode]* repeatedly until the display shows *'Pr.XX'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* to select one of the pre-programmed automatic shows (display *'Pr.01'* … *'Pr.24'*). Confirm with *[Setup]*.

   For programme *'Pr.01'*, you can set a static colour between *'CO.00'* and *'CO.39'*.

   For programmes *'Pr.02'* … *'Pr.24'* you can set the playback speed to between *'SP.01'* (slow) and *'SP.99'* (fast) or to *'FL81'* (flash effect).
3. Press *[Up]* or *[Down]* to set the strobe frequency of the automatic programme to between *'FS.00'* (slow) and *'FS.99'* (fast). Confirm with *[Setup]*.
4. To exit the menu item without making changes, press *[Mode]*.

7.2.3 DMX mode

This setting is only relevant when the device is controlled via DMX.

1. Press *[Mode]* repeatedly until the display shows *'d---'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* to select a DMX address between *'d.001'* and *'d.512'*. Confirm with *[Setup]*.

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

Mode	Highest possible DMX address
4-channel mode	509
5-channel mode	508
6-channel mode	507
11-channel mode	502
23-channel mode (only item no. 580868)	490
39-channel mode (only item no. 580867)	474

3. Press *[Up]* or *[Down]* to select the DMX mode (display *'4.ch'*, *'5.ch'*, *'6.ch'*, *'11.ch'* or *'23.ch'* / *'39.ch'*). Confirm with *[Setup]*.
4. To exit the menu item without making changes, press *[Mode]*.

7.2.4 “Master/slave” mode

This setting is only relevant if the device is serving as slave in a master/slave configuration and is not controlled via DMX.

1. Press *[Mode]* repeatedly until the display shows *‘Slav’*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* to select *‘Yes’* (master/slave enabled) or *‘No’* (master/slave disabled). Confirm with *[Setup]*.
3. To exit the menu item without making changes, press *[Mode]*.

7.2.5 Manual colour settings

1. Press *[Mode]* repeatedly until the display shows *‘Colr’*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* to make the required colour setting. Confirm with *[Setup]*.
   - *‘r.000’ … ‘r.255’*
   - *‘g.000’ … ‘g.255’*
   - *‘b.000’ … ‘b.255’*
   - *‘u.000’ … ‘u.255’*
3. To exit the menu item without making changes, press *[Mode]*.

7.2.6 Sound control

In this mode, the device follows the rhythm of the background music or sounds detected by the built-in microphone.

1. Press *[Mode]* repeatedly until the display shows *'Soud'*. Confirm with *[Setup]*.

Setting an automatic show

2. Press *[Up]* or *[Down]* to select the required automatic show (display *'SO.01'* … *'SO.25'*). Confirm with *[Setup]*.

The following automatic shows are available:

Menu level 2	Function
'SO.01' … *'SO.04'*	Gentle effects
'SO.05' … *'SO.22'*	Dynamic effects
'SO.23'	Collections of gentle effects
'SO.24'	Collections of dynamic effects
'SO.25'	Collections of gentle and dynamic effects

Adjusting the sensitivity

3. Press *[Up]* or *[Down]* to adjust the sensitivity (display *'SU.00'* … *'SU.50'*). Confirm with *[Setup]*.

4. To exit the menu item without making changes, press *[Mode]*.

7.3 Settings

7.3.1 Setting the dimmer curve

1. Press *[Mode]* repeatedly until the display shows *'Set'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Cur'*. Confirm with *[Setup]*.
3. Press *[Up]* or *[Down]* to choose a dimmer curve. Confirm with *[Setup]*.

   The following dimmer curves are available:

Menu level 3	Function
'Cu-1'	Linear proportional course (Linear)
'Cu-2'	Quadratic curve with a flat profile at the beginning and a steep profile at the end (Square Law)
'Cu-3'	Inverted quadratic curve with a steep profile at the beginning and a flat profile at the end (Inv Square Law)
'Cu-4'	Non-linear curve with a distinctive flat profile at the beginning and the end (S-Type)

4. To exit the menu item without making changes, press *[Mode]*.

7.3.2 Pixel rotation

1. Press *[Mode]* repeatedly until the display shows *'Set'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Pi.dl'*. Confirm with *[Setup]*.
3. Press *[Up]* or *[Down]* to choose between *'NOR'* (normal) and *'Inv'* (rotated). Confirm with *[Setup]*.
4. To exit the menu item without making changes, press *[Mode]*.

7.3.3 Behaviour on DMX control failure

1. Press *[Mode]* repeatedly until the display shows *'Set'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Fail'*. Confirm with *[Setup]*.
3. Press *[Up]* or *[Down]* to choose *'Off'* (spotlight is turned off) or *'Hold'* (the most recently received signal is held). Confirm with *[Setup]*.
4. To exit the menu item without making changes, press *[Mode]*.

7.3.4 Key lock

1. Press *[Mode]* repeatedly until the display shows *'Set'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Lock'*. Confirm with *[Setup]*.
3. Press *[Up]* or *[Down]* to choose *'On'* (key lock activated) or *'Off'* (key lock deactivated). Confirm with *[Setup]*.
4. Simultaneously press *[Mode]* and *[Setup]* for five seconds if you want to activate the input while the key lock is activated.
5. To exit the menu item without making changes, press *[Mode]*.

7.3.5 Reset to factory default setting

1. Press *[Mode]* repeatedly until the display shows *'Set'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Fact'*. Confirm with *[Setup]*.
3. Press *[Up]* or *[Down]* to select *'Yes'* (reset device) or *'No'* (do not reset device). Confirm with *[Setup]*.
4. To exit the menu item without making changes, press *[Mode]*.

7.3.6 System information

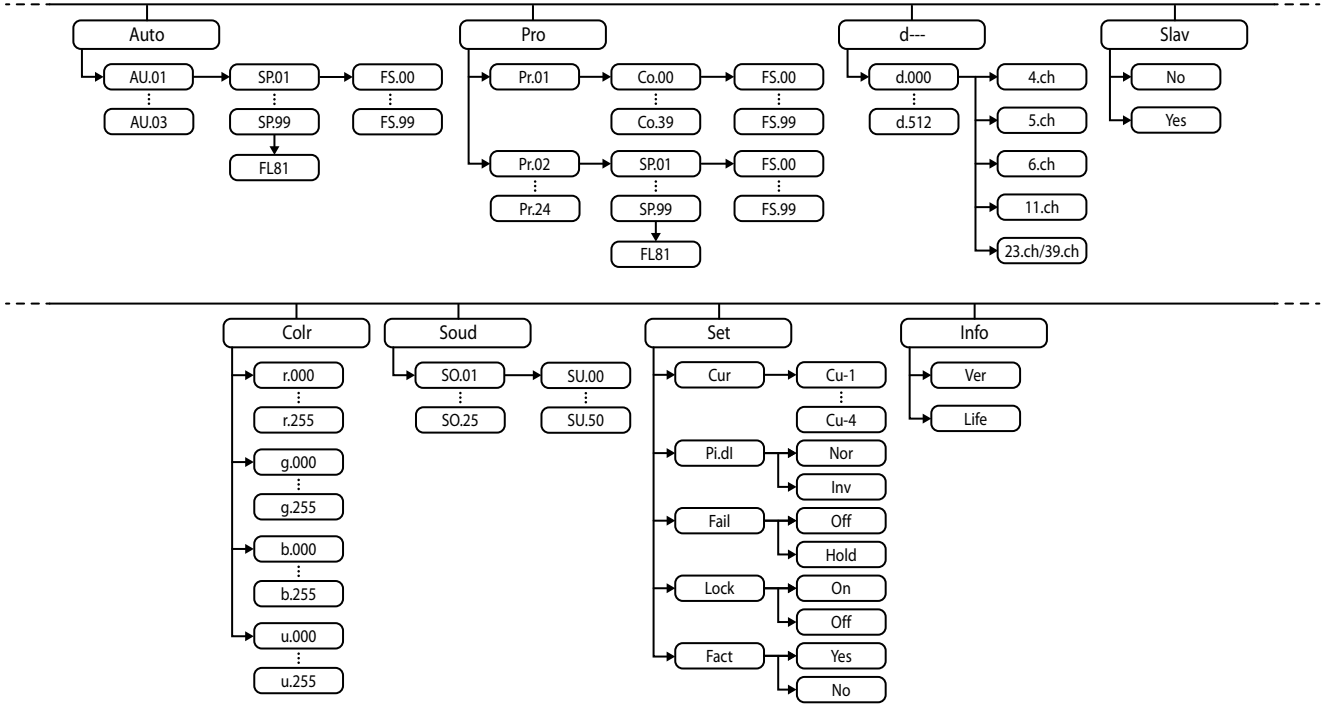
1. Press *[Mode]* repeatedly until the display shows *'Info'*. Confirm with *[Setup]*.
2. Press *[Up]* or *[Down]* repeatedly until the display shows *'Ver'*. Confirm with *[Setup]*.
   ⇨ The display shows the current version number of the device.
3. Press *[Up]* or *[Down]* repeatedly until the display shows *'Life'*. Confirm with *[Setup]*.
   ⇨ The display shows the total runtime of the device.
4. If you want to reset the total runtime of the device, press and hold *[Setup]* for five seconds and enter the password `0088`.
   ⇨ The total runtime of the device is reset.
5. To exit the menu item without making changes, press *[Mode]*.

7.4 RDM functions

The device provides an RDM function and supports the DMX512 standard. Any device with RDM can be recognised from the built-in UID code.

Parameter ID	Detection command	Sent command	Received command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
SUPPORTED_PARAMETERS			*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
RESET_DEVICE		*	
FACTORY_DEFAULTS		*	

7.5 Menu overview



7.6 Functions in 4-channel DMX mode

Channel	Value	Function
1	0…255	Intensity (0% to 100%) of the red LEDs
2	0…255	Intensity (0% to 100%) of the green LEDs
3	0…255	Intensity (0% to 100%) of the blue LEDs
4	0…255	Intensity (0% to 100%) of the white LEDs

7.7 Functions in 5-channel DMX mode

Channel	Value	Function
1	0…255	Dimmer (0% to 100%) for all LEDs
2	0…127	Sound control
	128…255	Pre-programmed automatic show
3	Function depending on setting of channel 2, if channel 2 = 128…255	
	0…15	No function
	16…25	Colour change 1
	26…35	Colour change 2
	36…45	Colour change 3
	46…55	Colour change 4
	66…65	Colour change 5
	66…75	Colour transition 1
	76…85	Colour transition 2
	86…95	Colour transition 3
	96…105	Colour transition 6

Channel	Value	Function
	106…115	Colour transition 7
	116…125	Colour transition 8
	126…135	Colour transition 9
	136…145	Colour transition 10
	146…155	Colour transition 11
	156…165	Colour transition 12
	166…175	Colour transition 4
	176…185	Colour transition 5
	186…195	Colour transition 6
	196…205	Colour transition 7
	206…215	Colour transition 8
	216…225	Colour transition 9
	226…235	Colour transition 10
	236…245	Colour transition 11
	246…255	No function
4	Function depending on setting of channel 2, if channel 2 = 0…127	

Channel	Value	Function
	0…5	No function
	6…15	Sound mode 1
	16…25	Sound mode 2
	26…35	Sound mode 3
	36…45	Sound mode 4
	46…55	Sound mode 5
	66…65	Sound mode 6
	66…75	Sound mode 7
	76…85	Sound mode 8
	86…95	Sound mode 9
	96…105	Sound mode 10
	106…115	Sound mode 11
	116…125	Sound mode 12
	126…135	Sound mode 13
	136…145	Sound mode 14
	146…155	Sound mode 15

Channel	Value	Function
	156…165	Sound mode 16
	166…175	Sound mode 17
	176…185	Sound mode 18
	186…195	Sound mode 19
	196…205	Sound mode 20
	206…215	Sound mode 21
	216…225	Sound mode 22
	226…235	Sound mode 23
	236…245	Sound mode 24
	246…255	Sound mode 25
5	Function depending on setting of channel 2	
	Channel 2 = 0…127	
	0…255	Sensitivity of the built-in microphone for sound control
	Channel 2 = 128…255	
	0…255	Playback speed of the pre-programmed automatic show increasing

7.8 Functions in 6-channel DMX mode

Channel	Value	Function
1	0…255	Dimmer (0% to 100%) for all LEDs
2	Strobe	
	0…10	No function
	11…255	Linear flashing (strobe), increasing speed
3	0…255	Intensity (0% to 100%) of the red LEDs
4	0…255	Intensity (0% to 100%) of the green LEDs
5	0…255	Intensity (0% to 100%) of the blue LEDs
6	0…255	Intensity (0% to 100%) of the white LEDs

7.9 Functions in 11-channel DMX mode

Channel	Value	Function
1	0…255	Dimmer (0% to 100%) for all LEDs
2	Strobe	
	0…10	No function
	11…255	Linear flashing (strobe), increasing speed
3	0…63	RGBW colour change
	64…127	Colour presets
	128…191	Pre-programmed automatic show
	192…255	Sound control
4	Colour selection	
	0…21	Colour 0 (R000, G000, B000, W000)
	22…27	Colour 1 (R255, G000, B000, W000)
	28…33	Colour 2 (R255, G015, B000, W000)
	34…39	Colour 3 (R255, G050, B000, W000)
	40…45	Colour 4 (R255, G125, B000, W000)

Channel	Value	Function
	46…51	Colour 5 (R255, G170, B000, W000)
	52…57	Colour 6 (R255, G210, B000, W000)
	58…63	Colour 7 (R255, G255, B000, W000)
	64…69	Colour 8 (R200, G255, B000, W000)
	70…75	Colour 9 (R160, G255, B000, W000)
	76…81	Colour 10 (R110, G255, B000, W000)
	82…87	Colour 11 (R070, G255, B000, W000)
	88…93	Colour 12 (R000, G255, B000, W000)
	94…99	Colour 13 (R000, G255, B010, W000)
	100…105	Colour 14 (R000, G255, B025, W000)
	106…111	Colour 15 (R000, G255, B040, W000)
	112…117	Colour 16 (R000, G255, B070, W000)
	118…123	Colour 17 (R000, G255, B120, W000)
	124…129	Colour 18 (R000, G255, B255, W000)
	130…135	Colour 19 (R000, G100, B255, W000)
	136…141	Colour 20 (R000, G000, B255, W000)

Channel	Value	Function
	142…147	Colour 21 (R020, G000, B255, W000)
	148…153	Colour 22 (R050, G000, B255, W000)
	154…159	Colour 23 (R080, G000, B255, W000)
	160…165	Colour 24 (R130, G000, B255, W000)
	166…171	Colour 25 (R180, G000, B255, W000)
	172…177	Colour 26 (R225, G000, B255, W000)
	178…183	Colour 27 (R255, G000, B255, W000)
	184…189	Colour 28 (R255, G000, B220, W000)
	190…195	Colour 29 (R255, G000, B070, W000)
	196…201	Colour 30 (R255, G000, B020, W000)
	202…207	Colour 31 (R255, G000, B007, W000)
	208…213	Colour 32 (R000, G000, B000, W255)
	214…219	Colour 33 (R255, G000, B000, W255)
	220…225	Colour 34 (R125, G000, B000, W255)
	226…231	Colour 35 (R000, G255, B000, W255)
	232…237	Colour 36 (R000, G120, B000, W255)

Channel	Value	Function
	238…243	Colour 37 (R000, G000, B255, W255)
	244…249	Colour 38 (R000, G000, B100, W255)
	250…255	Colour 39 (R000, G000, B050, W255)
5	Function depending on setting of channel 3, if channel 3 = 128…191	
	0…15	No function
	16…25	Colour change 1
	26…35	Colour change 2
	36…45	Colour change 3
	46…55	Colour change 4
	66…65	Colour change 5
	66…75	Colour transition 1
	76…85	Colour transition 2
	86…95	Colour transition 3
	96…105	Colour transition 6
	106…115	Colour transition 7
	116…125	Colour transition 8

Channel	Value	Function
	126…135	Colour transition 9
	136…145	Colour transition 10
	146…155	Colour transition 11
	156…165	Colour transition 12
	166…175	Colour transition 4
	176…185	Colour transition 5
	186…195	Colour transition 6
	196…205	Colour transition 7
	206…215	Colour transition 8
	216…225	Colour transition 9
	226…235	Colour transition 10
	236…245	Colour transition 11
	246…255	No function
6	Function depending on setting of channel 3, if channel 3 = 192…255	
	0…5	No function
	6…15	Sound mode 1

Channel	Value	Function
	16…25	Sound mode 2
	26…35	Sound mode 3
	36…45	Sound mode 4
	46…55	Sound mode 5
	66…65	Sound mode 6
	66…75	Sound mode 7
	76…85	Sound mode 8
	86…95	Sound mode 9
	96…105	Sound mode 10
	106…115	Sound mode 11
	116…125	Sound mode 12
	126…135	Sound mode 13
	136…145	Sound mode 14
	146…155	Sound mode 15
	156…165	Sound mode 16
	166…175	Sound mode 17

Channel	Value	Function
	176…185	Sound mode 18
	186…195	Sound mode 19
	196…205	Sound mode 20
	206…215	Sound mode 21
	216…225	Sound mode 22
	226…235	Sound mode 23
	236…245	Sound mode 24
	246…255	Sound mode 25
7	Function depending on setting of channel 3	
	Channel 3 = 128…191	
	0…255	Playback speed of the pre-programmed automatic show increasing
	Channel 3 = 192…255	
	0…255	Sensitivity of the built-in microphone for sound control
8	0…255	Intensity (0% to 100%) of the red LEDs
9	0…255	Intensity (0% to 100%) of the green LEDs

Channel	Value	Function
10	0…255	Intensity (0% to 100%) of the blue LEDs
11	0…255	Intensity (0% to 100%) of the white LEDs

7.10 Functions in 23-channel DMX mode (item no 580868)

Channel	Value	Function
1	0…255	Dimmer (0% to 100%) for all LEDs
2	Strobe	
	0…10	No function
	11…255	Linear flashing (strobe), increasing speed
3	0…63	RGBW colour change
	64…127	Colour presets
	128…191	Pre-programmed automatic show
	192…255	Sound control
4	Colour selection	
	0…21	Colour 0 (R000, G000, B000, W000)
	22…27	Colour 1 (R255, G000, B000, W000)
	28…33	Colour 2 (R255, G015, B000, W000)
	34…39	Colour 3 (R255, G050, B000, W000)
	40…45	Colour 4 (R255, G125, B000, W000)

Channel	Value	Function
	46…51	Colour 5 (R255, G170, B000, W000)
	52…57	Colour 6 (R255, G210, B000, W000)
	58…63	Colour 7 (R255, G255, B000, W000)
	64…69	Colour 8 (R200, G255, B000, W000)
	70…75	Colour 9 (R160, G255, B000, W000)
	76…81	Colour 10 (R110, G255, B000, W000)
	82…87	Colour 11 (R070, G255, B000, W000)
	88…93	Colour 12 (R000, G255, B000, W000)
	94…99	Colour 13 (R000, G255, B010, W000)
	100…105	Colour 14 (R000, G255, B025, W000)
	106…111	Colour 15 (R000, G255, B040, W000)
	112…117	Colour 16 (R000, G255, B070, W000)
	118…123	Colour 17 (R000, G255, B120, W000)
	124…129	Colour 18 (R000, G255, B255, W000)
	130…135	Colour 19 (R000, G100, B255, W000)
	136…141	Colour 20 (R000, G000, B255, W000)

Channel	Value	Function
	142…147	Colour 21 (R020, G000, B255, W000)
	148…153	Colour 22 (R050, G000, B255, W000)
	154…159	Colour 23 (R080, G000, B255, W000)
	160…165	Colour 24 (R130, G000, B255, W000)
	166…171	Colour 25 (R180, G000, B255, W000)
	172…177	Colour 26 (R225, G000, B255, W000)
	178…183	Colour 27 (R255, G000, B255, W000)
	184…189	Colour 28 (R255, G000, B220, W000)
	190…195	Colour 29 (R255, G000, B070, W000)
	196…201	Colour 30 (R255, G000, B020, W000)
	202…207	Colour 31 (R255, G000, B007, W000)
	208…213	Colour 32 (R000, G000, B000, W255)
	214…219	Colour 33 (R255, G000, B000, W255)
	220…225	Colour 34 (R125, G000, B000, W255)
	226…231	Colour 35 (R000, G255, B000, W255)
	232…237	Colour 36 (R000, G120, B000, W255)

Channel	Value	Function
	238…243	Colour 37 (R000, G000, B255, W255)
	244…249	Colour 38 (R000, G000, B100, W255)
	250…255	Colour 39 (R000, G000, B050, W255)
5	Function depending on setting of channel 3, if channel 3 = 128…191	
	0…15	No function
	16…25	Colour change 1
	26…35	Colour change 2
	36…45	Colour change 3
	46…55	Colour change 4
	66…65	Colour change 5
	66…75	Colour transition 1
	76…85	Colour transition 2
	86…95	Colour transition 3
	96…105	Colour transition 6
	106…115	Colour transition 7
	116…125	Colour transition 8

Channel	Value	Function
	126…135	Colour transition 9
	136…145	Colour transition 10
	146…155	Colour transition 11
	156…165	Colour transition 12
	166…175	Colour transition 4
	176…185	Colour transition 5
	186…195	Colour transition 6
	196…205	Colour transition 7
	206…215	Colour transition 8
	216…225	Colour transition 9
	226…235	Colour transition 10
	236…245	Colour transition 11
	246…255	No function
6	Function depending on setting of channel 3, if channel 3 = 192…255	
	0…5	No function
	6…15	Sound mode 1

Channel	Value	Function
	16…25	Sound mode 2
	26…35	Sound mode 3
	36…45	Sound mode 4
	46…55	Sound mode 5
	66…65	Sound mode 6
	66…75	Sound mode 7
	76…85	Sound mode 8
	86…95	Sound mode 9
	96…105	Sound mode 10
	106…115	Sound mode 11
	116…125	Sound mode 12
	126…135	Sound mode 13
	136…145	Sound mode 14
	146…155	Sound mode 15
	156…165	Sound mode 16
	166…175	Sound mode 17

Channel	Value	Function
	176…185	Sound mode 18
	186…195	Sound mode 19
	196…205	Sound mode 20
	206…215	Sound mode 21
	216…225	Sound mode 22
	226…235	Sound mode 23
	236…245	Sound mode 24
	246…255	Sound mode 25
7	Function depending on setting of channel 3	
	Channel 3 = 128…191	
	0…255	Playback speed of the pre-programmed automatic show increasing
	Channel 3 = 192…255	
	0…255	Sensitivity of the built-in microphone for sound control
8	0…255	Intensity (0% to 100%) of the red LEDs in segment 1
9	0…255	Intensity (0% to 100%) of the green LEDs in segment 1
10	0…255	Intensity (0% to 100%) of the blue LEDs in segment 1

Channel	Value	Function
11	0…255	Intensity (0% to 100%) of the white LEDs in segment 1
12	0…255	Intensity (0% to 100%) of the red LEDs in segment 2
13	0…255	Intensity (0% to 100%) of the green LEDs in segment 2
14	0…255	Intensity (0% to 100%) of the blue LEDs in segment 2
15	0…255	Intensity (0% to 100%) of the white LEDs in segment 2
16	0…255	Intensity (0% to 100%) of the red LEDs in segment 3
17	0…255	Intensity (0% to 100%) of the green LEDs in segment 3
18	0…255	Intensity (0% to 100%) of the blue LEDs in segment 3
19	0…255	Intensity (0% to 100%) of the white LEDs in segment 3
20	0…255	Intensity (0% to 100%) of the red LEDs in segment 4
21	0…255	Intensity (0% to 100%) of the green LEDs in segment 4
22	0…255	Intensity (0% to 100%) of the blue LEDs in segment 4
23	0…255	Intensity (0% to 100%) of the white LEDs in segment 4

7.11 Functions in 39-channel DMX mode (item no 580867)

Channel	Value	Function
1	0…255	Dimmer (0% to 100%) for all LEDs
2	Strobe	
	0…10	No function
	11…255	Linear flashing (strobe), increasing speed
3	0…63	RGBW colour change
	64…127	Colour presets
	128…191	Pre-programmed automatic show
	192…255	Sound control
4	Colour selection	
	0…21	Colour 0 (R000, G000, B000, W000)
	22…27	Colour 1 (R255, G000, B000, W000)
	28…33	Colour 2 (R255, G015, B000, W000)
	34…39	Colour 3 (R255, G050, B000, W000)
	40…45	Colour 4 (R255, G125, B000, W000)

Channel	Value	Function
	46…51	Colour 5 (R255, G170, B000, W000)
	52…57	Colour 6 (R255, G210, B000, W000)
	58…63	Colour 7 (R255, G255, B000, W000)
	64…69	Colour 8 (R200, G255, B000, W000)
	70…75	Colour 9 (R160, G255, B000, W000)
	76…81	Colour 10 (R110, G255, B000, W000)
	82…87	Colour 11 (R070, G255, B000, W000)
	88…93	Colour 12 (R000, G255, B000, W000)
	94…99	Colour 13 (R000, G255, B010, W000)
	100…105	Colour 14 (R000, G255, B025, W000)
	106…111	Colour 15 (R000, G255, B040, W000)
	112…117	Colour 16 (R000, G255, B070, W000)
	118…123	Colour 17 (R000, G255, B120, W000)
	124…129	Colour 18 (R000, G255, B255, W000)
	130…135	Colour 19 (R000, G100, B255, W000)
	136…141	Colour 20 (R000, G000, B255, W000)

Channel	Value	Function
	142…147	Colour 21 (R020, G000, B255, W000)
	148…153	Colour 22 (R050, G000, B255, W000)
	154…159	Colour 23 (R080, G000, B255, W000)
	160…165	Colour 24 (R130, G000, B255, W000)
	166…171	Colour 25 (R180, G000, B255, W000)
	172…177	Colour 26 (R225, G000, B255, W000)
	178…183	Colour 27 (R255, G000, B255, W000)
	184…189	Colour 28 (R255, G000, B220, W000)
	190…195	Colour 29 (R255, G000, B070, W000)
	196…201	Colour 30 (R255, G000, B020, W000)
	202…207	Colour 31 (R255, G000, B007, W000)
	208…213	Colour 32 (R000, G000, B000, W255)
	214…219	Colour 33 (R255, G000, B000, W255)
	220…225	Colour 34 (R125, G000, B000, W255)
	226…231	Colour 35 (R000, G255, B000, W255)
	232…237	Colour 36 (R000, G120, B000, W255)

Channel	Value	Function
	238…243	Colour 37 (R000, G000, B255, W255)
	244…249	Colour 38 (R000, G000, B100, W255)
	250…255	Colour 39 (R000, G000, B050, W255)
5	Function depending on setting of channel 3, if channel 3 = 128…191	
	0…15	No function
	16…25	Colour change 1
	26…35	Colour change 2
	36…45	Colour change 3
	46…55	Colour change 4
	66…65	Colour change 5
	66…75	Colour transition 1
	76…85	Colour transition 2
	86…95	Colour transition 3
	96…105	Colour transition 6
	106…115	Colour transition 7
	116…125	Colour transition 8

Channel	Value	Function
	126…135	Colour transition 9
	136…145	Colour transition 10
	146…155	Colour transition 11
	156…165	Colour transition 12
	166…175	Colour transition 4
	176…185	Colour transition 5
	186…195	Colour transition 6
	196…205	Colour transition 7
	206…215	Colour transition 8
	216…225	Colour transition 9
	226…235	Colour transition 10
	236…245	Colour transition 11
	246…255	No function
6	Function depending on setting of channel 3, if channel 3 = 192…255	
	0…5	No function
	6…15	Sound mode 1

Channel	Value	Function
	16…25	Sound mode 2
	26…35	Sound mode 3
	36…45	Sound mode 4
	46…55	Sound mode 5
	66…65	Sound mode 6
	66…75	Sound mode 7
	76…85	Sound mode 8
	86…95	Sound mode 9
	96…105	Sound mode 10
	106…115	Sound mode 11
	116…125	Sound mode 12
	126…135	Sound mode 13
	136…145	Sound mode 14
	146…155	Sound mode 15
	156…165	Sound mode 16
	166…175	Sound mode 17

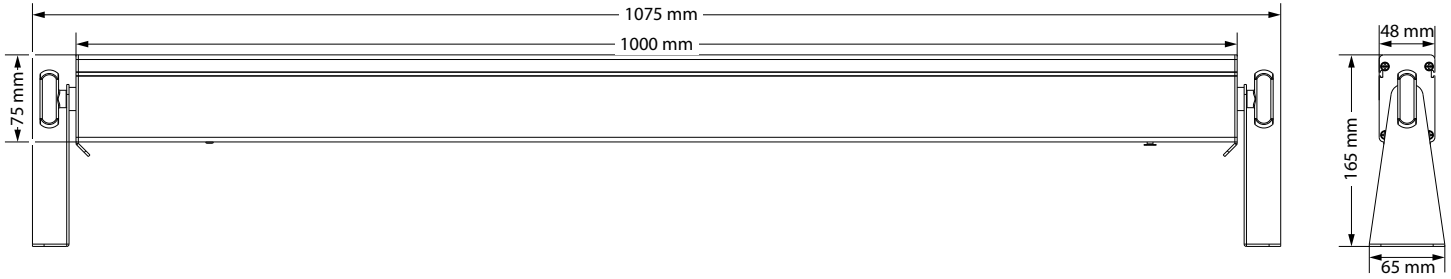
Channel	Value	Function
	176…185	Sound mode 18
	186…195	Sound mode 19
	196…205	Sound mode 20
	206…215	Sound mode 21
	216…225	Sound mode 22
	226…235	Sound mode 23
	236…245	Sound mode 24
	246…255	Sound mode 25
7	Function depending on setting of channel 3	
	Channel 3 = 128…191	
	0…255	Playback speed of the pre-programmed automatic show increasing
	Channel 3 = 192…255	
	0…255	Sensitivity of the built-in microphone for sound control
8	0…255	Intensity (0% to 100%) of the red LEDs in segment 1
9	0…255	Intensity (0% to 100%) of the green LEDs in segment 1
10	0…255	Intensity (0% to 100%) of the blue LEDs in segment 1

Channel	Value	Function
11	0…255	Intensity (0% to 100%) of the white LEDs in segment 1
12	0…255	Intensity (0% to 100%) of the red LEDs in segment 2
13	0…255	Intensity (0% to 100%) of the green LEDs in segment 2
14	0…255	Intensity (0% to 100%) of the blue LEDs in segment 2
15	0…255	Intensity (0% to 100%) of the white LEDs in segment 2
16	0…255	Intensity (0% to 100%) of the red LEDs in segment 3
17	0…255	Intensity (0% to 100%) of the green LEDs in segment 3
18	0…255	Intensity (0% to 100%) of the blue LEDs in segment 3
19	0…255	Intensity (0% to 100%) of the white LEDs in segment 3
20	0…255	Intensity (0% to 100%) of the red LEDs in segment 4
21	0…255	Intensity (0% to 100%) of the green LEDs in segment 4
22	0…255	Intensity (0% to 100%) of the blue LEDs in segment 4
23	0…255	Intensity (0% to 100%) of the white LEDs in segment 4
24	0…255	Intensity (0% to 100%) of the red LEDs in segment 5
25	0…255	Intensity (0% to 100%) of the green LEDs in segment 5
26	0…255	Intensity (0% to 100%) of the blue LEDs in segment 5

Channel	Value	Function
27	0…255	Intensity (0% to 100%) of the white LEDs in segment 5
28	0…255	Intensity (0% to 100%) of the red LEDs in segment 6
29	0…255	Intensity (0% to 100%) of the green LEDs in segment 6
30	0…255	Intensity (0% to 100%) of the blue LEDs in segment 6
31	0…255	Intensity (0% to 100%) of the white LEDs in segment 6
32	0…255	Intensity (0% to 100%) of the red LEDs in segment 7
33	0…255	Intensity (0% to 100%) of the green LEDs in segment 7
34	0…255	Intensity (0% to 100%) of the blue LEDs in segment 7
35	0…255	Intensity (0% to 100%) of the white LEDs in segment 7
36	0…255	Intensity (0% to 100%) of the red LEDs in segment 8
37	0…255	Intensity (0% to 100%) of the green LEDs in segment 8
38	0…255	Intensity (0% to 100%) of the blue LEDs in segment 8
39	0…255	Intensity (0% to 100%) of the white LEDs in segment 8

8 Technical specifications

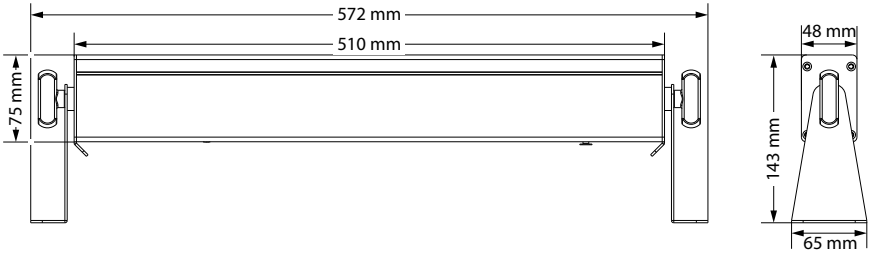
SonicPulse LED Bar 10
(item no. 580867)



Light source	24 × RGBWW LED, 2 W each (3 LEDs in each of the eight segments)	
Light source properties	Colour temperature	3000 K
Optical properties	Beam angle	10°
Control	DMX, buttons and display on the device, infrared remote control	
Number of DMX channels	4, 5, 6, 11 or 39	

Input connections	Power supply	Lockable input socket (Power Twist)
	DMX control	XLR panel socket, 3-pin
Output connections	Power supply for further devices	Lockable output socket (Power Twist) Output current, max.: 6 A
	DMX control	XLR panel socket, 3-pin
Power consumption	29 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 1 A, 250 V, slow blow	
Battery remote control	Lithium-ion button cell CR2025, 3 V	
International Protection Rating	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	1,075 mm × 165 mm × 65 mm	
Weight	2.8 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

SonicPulse LED Bar 05
(item no. 580868)



Light source	12 × RGBWW LED, 2 W each (3 LEDs in each of the four segments)	
Light source properties	Colour temperature	3000 K
Optical properties	Beam angle	10°
Control	DMX, buttons and display on the device, infrared remote control	
Number of DMX channels	4, 5, 6, 11 or 23	
Input connections	Power supply	Lockable input socket (Power Twist)
	DMX control	XLR panel socket, 3-pin

Output connections	Power supply for further devices	Lockable output socket (Power Twist) Output current, max.: 6 A
	DMX control	XLR panel socket, 3-pin
Power consumption	29 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 1 A, 250 V, slow blow	
Battery remote control	Lithium-ion button cell CR2025, 3 V	
International Protection Rating	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	572 mm × 165 mm × 65 mm	
Weight	1.4 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

Suitable for outdoor use	No
LED type	x-in-1
Fanless	Yes
Remote control	Included
Wireless DMX	No
Separately controllable LEDs	No
Housing colour	Black

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!

Data transfer errors due to improper wiring!

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

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

Symptom	Remedy
The device does not work, no light	Check the mains connection and the fuse.
No response to the DMX controller	1. If the display flashes, e.g. *'d001'*, no valid DMX signal is being received. Check that the DMX controller is switched on. Check the DMX connections and cables for proper connection.
	2. If the display is not flashing but there is still no response, check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

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

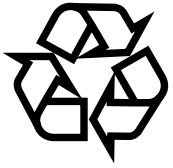
Optical lenses

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.

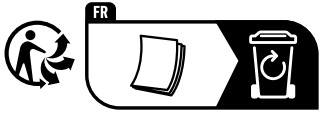
12 Protecting the environment

Disposal of the packing material



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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



Observe the disposal note regarding documentation in France.

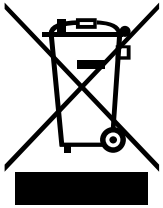
Disposal of batteries

Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites.

Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility.

Dispose of the batteries and rechargeable batteries at relevant collection points or through your local waste facility.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on *www.thomann.de*.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

If your old device contains personal data, delete those data before disposing of it.