VARYTEC

LED Pad 7 7x10W 5in1 RGBWA

LED PAR

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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 fire due to covered vents and neighbouring heat sources!

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can overheat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

!

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). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. 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!

Possible staining due to plasticiser in rubber feet!

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the product's rubber feet and the floor.

3   Features

The device is particularly suitable for lighting work in clubs, bars, on small stages and in theatres. With its powerful performance, compact design and solid construction, this device is also suitable for mobile use.

Special features of the device:

- 7 × 5-in-1 LEDs (RGBWA), 10 W each
- 5 colours per lens, which means almost any colour can be mixed
- With double bracket for easy setup or mounting
- Control via DMX (four different modes), buttons and display on the device as well as via the supplied infrared remote control
- Automatic mode and sound control
- Master/slave mode

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.

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 openings provided on the bracket for attaching.
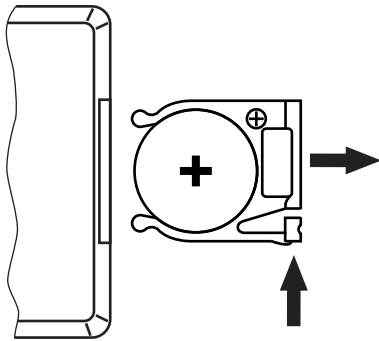
Always work from a stable platform whenever installing, moving or servicing the device. While you do this, the area underneath the device must be cordoned off.

The safety cable must be attached to the safety cable eyelet.

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.

> **!**
>
> **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.

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).
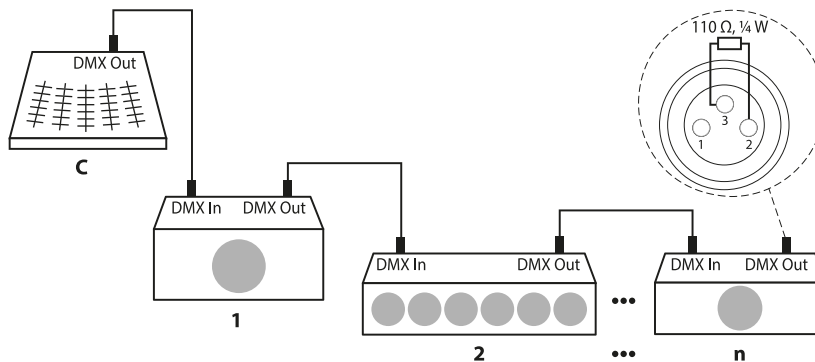
Connections in master/slave mode

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   Connections and controls
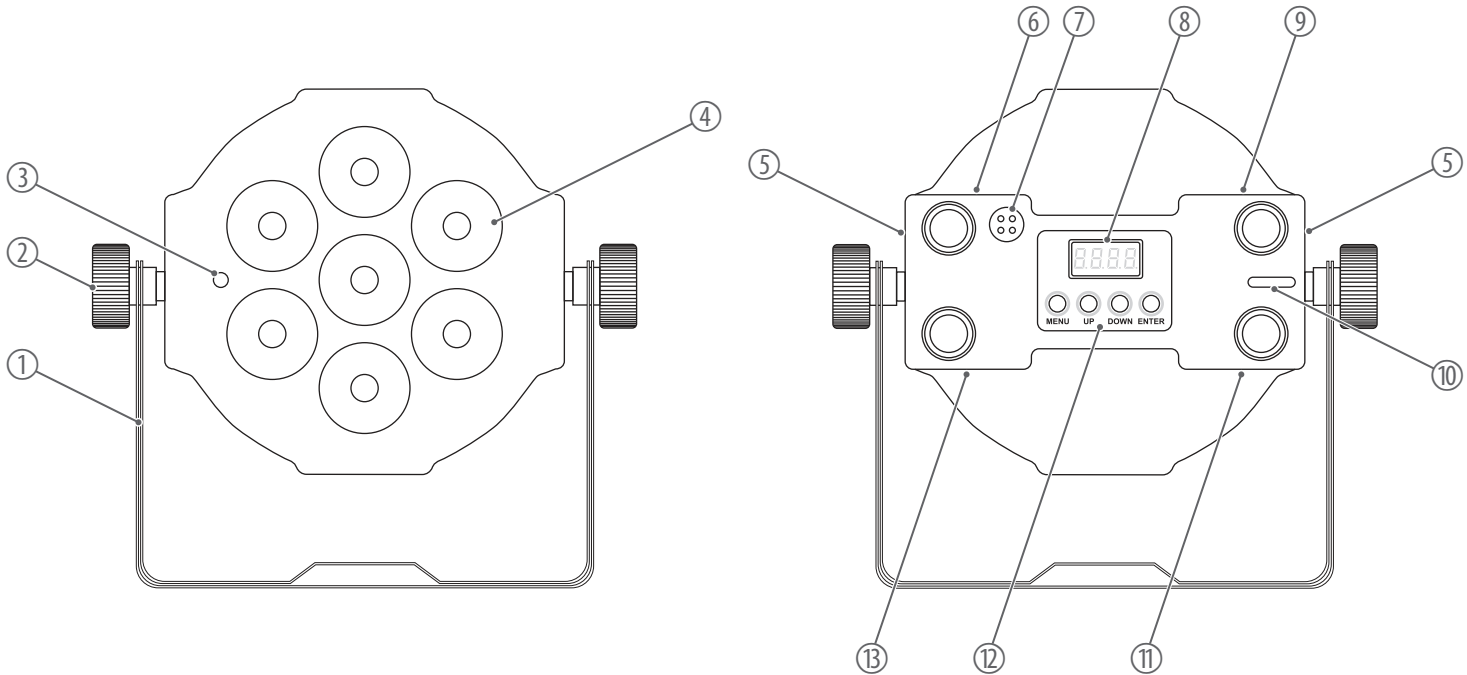
1	Bracket for floor placement or hanging
2	Locking screw for the bracket
3	Infrared sensor for receiving signals from the remote control
4	LEDs
5	Fan
6	*[100-240V~50/60 Hz]* | Rubber panel plug for the power supply of the device
7	Microphone for sound control
8	Display
9	*[DMX IN]* | DMX input, designed as a 3-pin XLR panel plug
10	Safety cable eyelet
11	*[DMX OUT]* | DMX output, designed as a 3-pin XLR panel socket
12	Function buttons
	[MENU] | Activates the main menu.
	[UP] | Switches between menu items. Increases the displayed value by one.
	[DOWN] | Switches between menu items. Decreases the displayed value by one.
	[ENTER] | Selects an option of the respective operating mode, confirms the set value.
13	*[POWER OUT]* | Rubber panel socket for powering further devices

Remote control
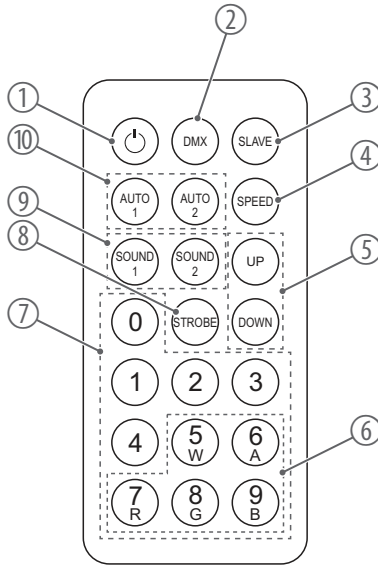
1	⏻	Turns the device on and off.
2	*[DMX]*	Activates DMX mode. Press *[DMX]* once and set the DMX address with *[UP]* and *[DOWN]*. Press *[DMX]* twice and set the DMX mode with *[UP]* and *[DOWN]*.
3	*[SLAVE]*	Activates slave mode.
4	*[SPEED]*	Activates the setting mode for the programme speed. Adjust the speed using *[UP]* and *[DOWN]*.
5	*[UP]*	Switches between individual programmes. Increases the set value.
	[DOWN]	Switches between individual programmes. Decreases the set value.
6	*[W]*, *[A]*, *[R]*, *[G]*, *[B]*	Buttons for selecting a colour
7	*[0 … 9]*	Number buttons for the direct input of values
8	*[STROBE]*	Turns the strobe function on and off (strobe effect).
9	*[SOUND 1 & 2]*	Activates sound control. Adjust the microphone sensitivity using *[UP]* and *[DOWN]*.
10	*[AUTO 1 & 2]*	Activates "pre-programmed automatic show" mode 1 or 2.

7 Operating

7.1 Starting the device

Connect the device to the mains to start operation.

7.2 Main menu

Navigating the menu

1. ▶ Press *[MENU]* to activate the main menu.
2. ▶ Press *[UP]* or *[DOWN]* to select between the individual menu items or to change the displayed value.
3. ▶ Press *[ENTER]* to open the selected menu item or confirm a value.
4. ▶ To exit a menu item without making changes, press *[MENU]*.

DMX address

Each device must be assigned a DMX address if it is operated via a DMX controller. The device will only react to control signals that are received on the set DMX address. To combine multiple devices into a group, it is possible to assign the same DMX address to the relevant devices.

> *In addition to the set DMX address, a device always occupies the number of DMX channels that are set as DMX mode on the device. Other devices that will be controlled individually must always be assigned the next free DMX address according to the channel assignment of other devices. Partial overlaps of channels can cause unintended effects.*
>
> ***Example:***
>
> *If the first device is set to the 'SCH' DMX mode with the DMX address 1, the next device must be set to DMX address 6 or higher.*
>
> *The rule is: DMX address of additional device = DMX address of first device + DMX mode*

1. Press *[MENU]* to activate the main menu.

2. Press *[UP]* or *[DOWN]* until the display shows *'AddR'*.

3. Confirm the selection with *[ENTER]*.

4. Use *[UP]* or *[DOWN]* to select a value between *'A001'* and *'A512'* / *'A508'* / *'A507'* / *'A504'*.

5. Confirm the selection with *[ENTER]*.

   ⇨ The desired address is saved.

6. To exit the menu item without making changes, press *[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
1-channel (*'1CH'*)	512
5-channel (*'5CH'*)	508
6-channel (*'6CH'*)	507
9-channel (*'9CH'*)	504

DMX mode

The device can be controlled in 1, 5, 6 or 9-channel mode. To specify the desired mode, proceed as follows:

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'Chnd'*.

3. ▶ Confirm the selection with *[ENTER]*.

4. ▶ Use *[UP]* or *[DOWN]* to choose between *'1CH'*, *'5CH'*, *'6CH'* and *'9CH'*.

5. ▶ Confirm the selection with *[ENTER]*.

   ⇨ The desired mode is saved.

6. ▶ To exit the menu item without making changes, press *[MENU]*.

"Auto 1" / "Auto 2" mode

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

1. ▸ Press *[MENU]* to activate the main menu.

2. ▸ Press *[UP]* or *[DOWN]* until the display shows *'Auto'*.

3. ▸ Confirm the selection with *[ENTER]*.

4. ▸ Use *[UP]* or *[DOWN]* to choose between *'AUT1'* *'and'* AUT2 to select the show.

5. ▸ Confirm the selection with *[ENTER]*.

   ⇨ The chosen show is saved.

6. ▸ Use *[UP]* or *[DOWN]* to select a value between *'SP1'* and *'SP9'* to set the running speed.

7. ▸ Confirm the selection with *[ENTER]*.

   ⇨ The chosen running speed is saved.

8. ▸ Use *[UP]* or *[DOWN]* to select a value between *'St00'* and *'St99'* to adjust the strobe's flashing frequency.

9. ▸ Confirm the selection with *[ENTER]*.

   ⇨ The chosen strobe frequency is saved.

10. ▸ To exit the menu item without making changes, press *[MENU]*.

Colour selection

These settings can only be activated if the device is operating in stand-alone mode or as the master in a master/slave configuration and if the device is not controlled via a DMX controller.

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'CoLo'*.

3. ▶ Confirm the selection with *[ENTER]*.

4. ▶ Use *[UP]* or *[DOWN]* to select a value between *'CoL1'* and *'CoL51'* to select the colour.

5. ▶ Confirm the selection with *[ENTER]*.

   ⇨   The chosen colour is saved.

6. ▶ Use *[UP]* or *[DOWN]* to select a value between *'St00'* and *'St99'* to adjust the strobe's flashing frequency.

7. ▶ Confirm the selection with *[ENTER]*.

   ⇨   The chosen strobe frequency is saved.

8. ▶ To exit the menu item without making changes, press *[MENU]*.

Dimmer settings

These settings can only be activated if the device is operating in stand-alone mode or as the master in a master/slave configuration and if the device is not controlled via a DMX controller.

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'StAt'*.

3. ▶ Confirm the selection with *[ENTER]*.

4. ▶ Press *[UP]* or *[DOWN]* to select the required submenu.

Menu level 2	Menu level 3	Function
'rEd'	*'r000' … 'r255'*	Red intensity
'GrEE'	*'g000' … 'g255'*	Green intensity
'bLUE'	*'b000' … 'b255'*	Blue intensity
'UhIE'	*'U000' … 'U255'*	White intensity
'AnbE'	*'A000' … 'A255'*	Amber intensity

5. ▶ Confirm the selection with *[ENTER]*.

⇨ The chosen settings are saved.

6. ▶ Use *[UP]* or *[DOWN]* to select a value between *'St00'* and *'St99'* to adjust the strobe's flashing frequency.

7. ▶ Confirm the selection with *[ENTER]*.

⇨ The chosen strobe frequency is saved.

8. ▶ To exit the menu item without making changes, press *[MENU]*.

Sound control

These settings can only be activated if the device is operating in stand-alone mode or as the master in a master/slave configuration and if the device is not controlled via a DMX controller.

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'SoUn'*.

3. ▶ Confirm the selection with *[ENTER]*.

4. ▶ Use *[UP]* or *[DOWN]* to choose between *'SoU1'* and *'SoU2'* to select the mode.

5. ▶ Confirm the selection with *[ENTER]*.

⇨ The desired mode is saved.

6. ▶ Use *[UP]* or *[DOWN]* to select a value between *'SEn0'* and *'SEn9'* to set the microphone sensitivity.

7. ▶ Confirm the selection with *[ENTER]*.

⇨ The chosen microphone sensitivity is saved.

8. ▶ To exit the menu item without making changes, press *[MENU]*.

Slave mode

Slave mode can only be activated if the device is not controlled via a DMX controller.

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'SLAv'*.

3. ▶ Confirm the selection with *[ENTER]*.

   ⇨ The display shows *'SLA'*. The device is now configured as a slave and follows the settings of the master device to which it is connected.

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

Activating the remote control

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'rEno'*.

3. ▶ Confirm the selection with *[ENTER]*.

4. ▶ Use *[UP]* or *[DOWN]* to choose between *'ON'* (remote control enabled) and *'OFF'* (remote control disabled).

5. ▶ Confirm the selection with *[ENTER]*.

   ⇨ The setting is saved.

6. ▶ To exit the menu item without making changes, press *[MENU]*.

7.3   Device information

Operating temperature

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'tEnP'*.

3. ▶ Confirm the selection with *[ENTER]*.

   ⇨   The display shows the current operating temperature of the device.

4. ▶ Press *[MENU]* to exit the menu item.

Software version

1. ▶ Press *[MENU]* to activate the main menu.

2. ▶ Press *[UP]* or *[DOWN]* until the display shows *'UER'*.

3. ▶ Confirm the selection with *[ENTER]*.

   ⇨   The display shows the current software version of the device.

4. ▶ Press *[MENU]* to exit the menu item.

7.4 Menu overview
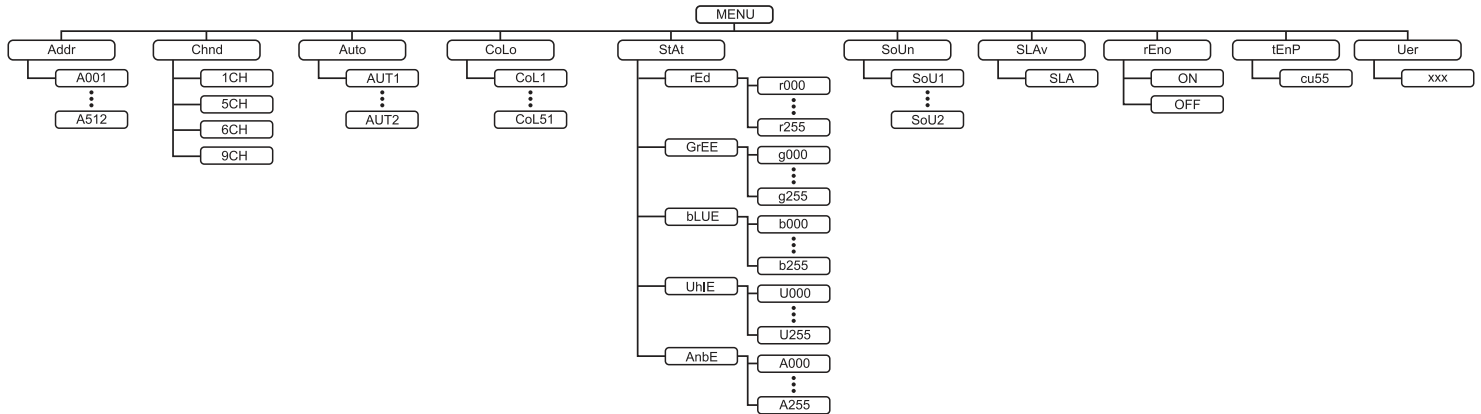
7.5 Function in 1-channel DMX mode

Channel	Value	Function
1	0…255	Colour selection

7.6 Functions in 5-channel DMX mode

Channel	Value	Function
1	0…255	Red intensity (0%…100%)
2	0…255	Green intensity (0%…100%)
3	0…255	Blue intensity (0%…100%)
4	0…255	White intensity (0%…100%)
5	0…255	Amber intensity (0%…100%)

7.7 Functions in 6-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0%…100%)
2	0…255	Red intensity (0%…100%)
3	0…255	Green intensity (0%…100%)
4	0…255	Blue intensity (0%…100%)

Channel	Value	Function
5	0…255	White intensity (0%…100%)
6	0…255	Amber intensity (0%…100%)

7.8 Functions in 9-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer (0%…100%)
2	0…255	Red intensity (0%…100%)
3	0…255	Green intensity (0%…100%)
4	0…255	Blue intensity (0%…100%)
5	0…255	White intensity (0%…100%)
6	0…255	Amber intensity (0%…100%)
7	0…50	No function
	51…101	Auto mode 1
	102…152	Auto mode 2

Channel	Value	Function
	153…203	Sound mode 1
	204…255	Sound mode 2
8	0…255	Process speed slow to fast if channel 7 = 51…152
	0…255	Microphone sensitivity low to high if channel 7 = 153…255 (0 to 29: microphone off, 30 to 255 = low to high)
9	0…9	No function
	10…255	Strobe frequency slow to fast

8   Technical specifications
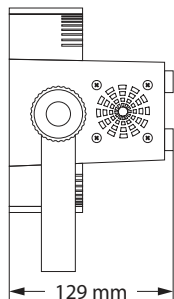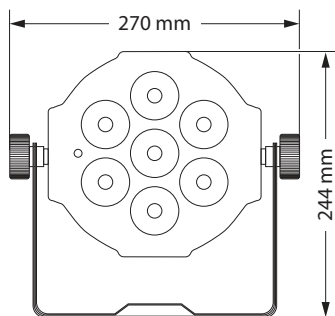
Light source	7 × 5-in-1 LEDs (RGBWA), 10 W each	
Optical properties	Beam angle	25°
Control	DMX, buttons and display on the device, infrared remote control	
Number of DMX channels	1, 5, 6 or 9	
Input connections	Power supply	Rubber panel plug C14
	DMX control	XLR panel plug, 3-pin
Output connections	Power supply for further devices	Rubber panel socket C13 Output current, max.: 6 A
	DMX control	XLR panel socket, 3-pin
Power consumption	70 W	
Supply voltage	100 - 240 V ∼ 50/60 Hz	
Remote control battery	Battery type	Lithium button cell, 3 V, CR 2025
Fuse	5 mm × 20 mm, 3.15 A, 250 V, fast blow	
International Protection Rating	IP20	

Mounting options	hanging, standing, tripod-mounted	
Dimensions (W × H × D)	270 mm × 244 mm × 129 mm with bracket	
Weight	2.1 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

Design	Flat PAR
Colour mix	RGBAW
LED type	x-in-1
Floor housing	Yes
Fanless	No
Remote control	Included
Wireless DMX	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 is not working, no light	Check the mains connection and main fuse.
Device is apparently not working despite a proper power supply	Check if the device is in DMX mode or in "slave" mode. If so, check the device in another mode.
No response to the DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. 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.
Unintended light effects	Make sure that the DMX channel assignments of the devices do not overlap, and that the DMX start address of devices with independent control is always higher by the number of channels that have been set for the DMX mode on another device.
No response to the IR remote control	Check whether the IR function is deactivated and activate it if necessary (see ⬙ 'Activating the remote control' on page 30).

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.

12   Protecting the environment

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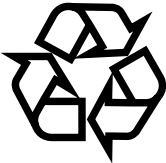
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.
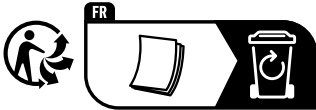
Observe the disposal note regarding documentation in France.

Disposal of batteries and rechargeable batteries

Do not dispose of batteries and rechargeable batteries with normal household waste, but in accordance with the local regulations for the disposal of hazardous waste. Use the available collection sites or contact your local waste disposal facility.

Before disposing of your old device, remove the batteries if this is possible without destroying it.

Disposal of your old device
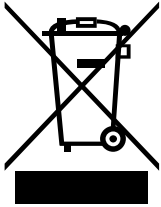
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

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. For example, use the classified ads of Thomann GmbH.

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

Notes