



Outdoor Stage Par Tri TR1

LED PAR

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1 General information

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

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

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

Instructions




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



Example:

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

1.3 Symbols and signal words

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

Signal word	Meaning
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 – hot surface.
	Warning – dangerous optical radiation.

Warning signs	Type of danger
 A yellow triangular warning sign with a black border. Inside the triangle, there is a black silhouette of a person standing next to a rectangular object (representing a load) that is suspended by a vertical line from above.	Warning – suspended load.
 A yellow triangular warning sign with a black border. Inside the triangle, there is a large black exclamation mark.	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!

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.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord). Do not modify the mains cable. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



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.



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.



WARNING!

Risk of burns

The surface of the device can become very hot during operation. Do not touch the device with bare hands during operation, and after switching off wait for at least 15 minutes.



NOTICE!

Risk of fire

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



NOTICE!

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!

Fire hazard due to exceedance of the maximum current

The device can power other devices of identical construction. The current consumption of all other devices connected in series must not exceed the values indicated in the technical specifications. Otherwise you risk injuries and irreparable damages to the device. Only connect so many identical devices that the maximum current consumption is not exceeded. Ensure the sufficient dimensioning (wire cross section) of the power cables used for all devices connected in series.

3 Features

The Outdoor Stage Par Quad TR1 is due to its sturdy and weather-proof housing made of die-cast aluminium especially suitable for outdoor use. With its 12 LEDs, it is particularly suitable for ambient lighting or open-air stages.

- 12 × 3in1 RGB LED (3 watt each)
- Control via DMX (3 different modes), via buttons and display on the unit
- preprogrammed automatic shows and colour macros
- four selectable dimmer curves
- Master / Slave operation
- rugged die-cast aluminium housing
- IP65 (suitable for outdoor use)
- Pressure compensation element (prevents condensation inside the device)
- sturdy double bracket for secure attachment to trusses or firm footing on the ground

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.

Information about protection class IP65

Equipment with protection class IP65 are dust-tight and completely protected against contact (first code number). They are also protected against splash water from any angle (second code digit). That is why this equipment can also be used outdoors. Event technology equipment is generally only designed for temporary use however (event lighting) and not for permanent use outdoors.

The specified protection class does not make a statement about the weather resistance of the equipment (resistance to changing ambient conditions as well as against the effects of sunlight and UV rays).

The seals and screw connections of the equipment must be checked regularly to ensure a fault-free operation. In cases of doubt, consult a specialist workshop in due time.

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

Always ensure sufficient ventilation.

The ambient temperature must not exceed the limits stated in the chapter Technical Specifications of the User Manual.

**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 attached to the safety eyelet.



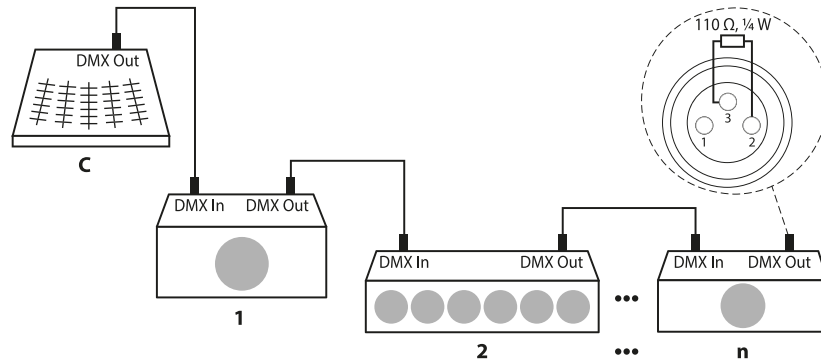
Please note that this device must not be connected to a dimmer.

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

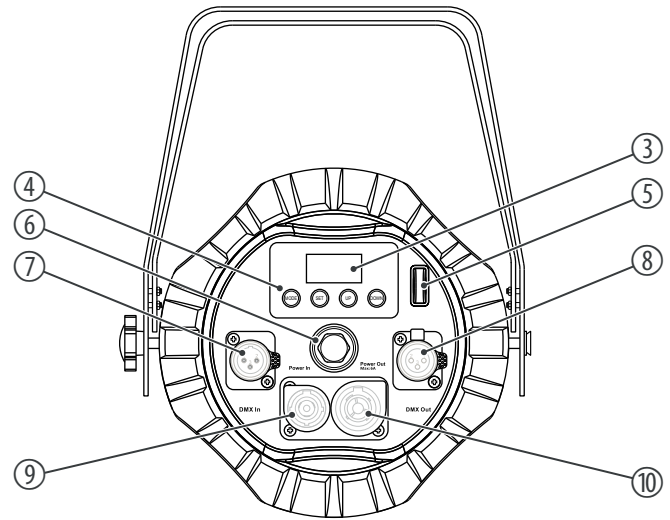
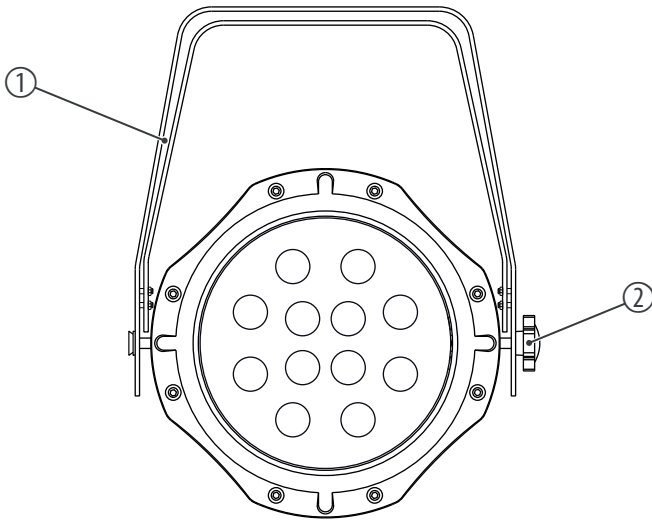
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor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



Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first unit will control the others. This feature is especially useful to start a show without much programming. Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit and so on.

6 Connections and controls



1	Two-piece bracket for hanging or floor setup
2	Locking screws for the two-piece bracket
3	Display
4	<i>[MODE]</i> activates the main menu, toggles between the menu items or closes a submenu
	<i>[SET]</i> opens a submenu or confirms a value
	<i>[UP]</i> increases the displayed value by one
	<i>[DOWN]</i> decreases the displayed value by one
5	Safety cable eyelet
6	Pressure compensation element
7	<i>[DMX In]</i> DMX input, designed as 3-pin XLR panel plug (IP65)
8	<i>[DMX Out]</i> DMX output, designed as 3-pin XLR panel socket (IP65)
9	<i>[Power In]</i> input socket (Power Twist TR1) for powering the device
10	<i>[Power Out]</i> output socket (Power Twist TR1) for powering further devices

7 Operating

7.1 Operating on the unit

7.1.1 Navigating in the menu

Connect the device to the power supply to start operation. After a few seconds, the display shows the software version of the device. The device is then ready for use.

All set values are retained even when you switch the device off and disconnect it from the mains.

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* to choose between the menu items.
3. ▶ To activate the respectively selected menu item, press *[SET]*.
4. ▶ Press *[UP]* or *[DOWN]* to change the respectively indicated value.
 - ⇒ The unit instantly applies the displayed value, you don't need to push a button for confirmation.
5. ▶ To exit a menu item without making changes, press *[MODE]*.



If you do not press any key for about 30 seconds, the display will automatically be locked. The display shows the current operating mode, the software version and the device temperature. To cancel the lock, hold down [MODE] and [SET] simultaneously for three seconds.

7.1.2 Operating mode 'DMX'

DMX address

1. ➤ Press [MODE] to activate the main menu.
2. ➤ Press repeatedly [MODE] and select the menu item 'DMX'.
3. ➤ Confirm the selection with [SET] and use [UP] or [DOWN] to select the menu item 'Address'.
4. ➤ Confirm the selection with [SET] and use [UP] or [DOWN] to select a value between '001' and '512' to set the desired DMX address.
5. ➤ To exit the menu item without making changes, press [MODE].

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
3-channel	510
5-channel	508
8-channel	505

DMX mode

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item '*DMX*'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item '*Channels*'.
4. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select a DMX mode ('*5-ch*', '*6-ch*' or '*8-ch*').
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.3 Operating mode 'Slave'

In this mode, the device follows exactly the operation of the master that it is connected to. This setting is only relevant if the device is not controlled via DMX.

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Slave'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to choose between 'Yes' (Slave mode on) and 'No' (Slave mode off).
4. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.4 Operating mode 'Automatic'

In automatic mode, all programmed shows are played sequentially in an endless loop.

A preprogrammed automatic show can only be activated when the unit 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]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Auto'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to choose between 'Yes' (Auto mode on) and 'No' (Auto mode off).
4. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.5 Selecting and configuring automatic programmes

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* and select the menu item 'Program'.
3. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Mode' and confirm the selection with *[SET]*.
4. ▶ Use *[UP]* or *[DOWN]* to select the desired programme ('01' ... '17') and confirm the selection with *[SET]*.
5. ▶ To exit the menu item without making changes, press *[MODE]*.

Settings for programme 01

1. ▶ **Static colours**

When you have selected programme '01', you can use *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Color'.

2. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select a static colour in the range of '00' ... '39'.

3. ▶ **Strobe frequency**

When you have selected programme '01', you can use *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Strobe'.

4. ▶ Press *[SET]* and use *[UP]* or *[DOWN]* to set the flash frequency of the strobe effect in a range from '00' ... '99' (slow...fast).

Settings for programmes 02 ... 17

1. ▶ Programme running speed

If you have selected a programme '02' ... '17', press *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Speed'.

2. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to set the programme running speed in a range from '001' ... '100' (slow...fast).

3. ▶ Strobe frequency

If you have selected a programme '02' ... '17', press *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Strobe'.

4. ▶ Press *[SET]* and use *[UP]* or *[DOWN]* to set the flash frequency of the strobe effect in a range from '00' ... '99' (slow...fast).

7.1.6 Selecting and configuring user programmes

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* and select the menu item 'User Program'.
3. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Program' and confirm the selection with *[SET]*.
4. ▶ Use *[UP]* or *[DOWN]* to select one of five memory locations for the user programme ('01' ... '05') and confirm the selection with *[SET]*.
5. ▶ To exit the menu item without making changes, press *[MODE]*.

Individual settings

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'User Program'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Edit' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to select the desired sub menu you want to edit and confirm the selection with *[SET]*.

The following sub menus are available:

Menu level 3	Menu level 4	Description
'Step'	'01...10'	Number of steps within the user programme
'Red'	'000...255'	Red from 0 to 255
'Green'	'000...255'	Green from 0 to 255
'Blue'	'000...255'	Blue from 0 to 255
'Strobe'	'00...99'	Strobe effect from 0 to 99
'Fade Time'	'00s...20s'	Fade time from 0 seconds to 20 seconds
'Wait Time'	'00.0s...40.0s'	Wait time from 0 seconds to 40 seconds

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

Playing user programmes

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'User Program'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Send Program' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between 'Yes' (play selected user programme) and 'No' (do not play selected user programme).
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.7 Dimmer settings

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* and select the menu item 'Dimmer'.
3. ▶ Use *[UP]* or *[DOWN]* to select the desired sub menu you want to edit and confirm the selection with *[SET]*.

The following sub menus are available:

Menu level 2	Menu level 3	Description
'Red'	'000...255'	Dimmer intensity red from 0 to 255
'Green'	'000...255'	Dimmer intensity green from 0 to 255
'Blue'	'000...255'	Dimmer intensity blue from 0 to 255

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

7.1.8 System settings

7.1.8.1 Setting the dimmer curve

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Settings'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Curves Select' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* the desired dimmer curve ('linear', 'Square Law', 'Inv Square Law' or 'S-Type') and confirm the selection with *[SET]*.

Display	Description
'linear'	Linear course
'Square Law'	Exponential course
'Inv Square Law'	Logarithmic course
'S-Type'	S-curve shaped course

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

7.1.8.2 Setting the dimmer speed

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item *'Settings'*.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item *'Dimmer Speed'* and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between *'Fast'* and *'Smooth'* (slow).
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.8.3 Rotating the Display

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item *'Settings'*.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item *'Display'* and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between *'Normal'* (display unturned) and *'Inverted'* (display turned by 180°).
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.8.4 PWM (pulse width modulation)

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* and select the menu item '*Settings*'.
3. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item '*PWM Frequency*' and confirm the selection with *[SET]*.
4. ▶ Use *[UP]* or *[DOWN]* to choose between '*12K*', '*6K*', '*3K*' or '*1K*'.
5. ▶ To exit the menu item without making changes, press *[MODE]*.

7.1.8.5 Behaviour on DMX control failure

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item '*Settings*'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item '*Dmx Fail*' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between '*Off*', '*Hold*', '*Dimmer*' and '*Program*' to make the setting to be used when the DMX controller fails.

Display	Meaning
'Off'	Spotlight turns off.
'Hold'	Last DMX value is being held.
'Dimmer'	Device switches to dimmer mode.
'Program'	Device switches to auto mode.

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

7.1.8.6 DMX synchronisation

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Settings'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Dmx Sync' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between 'On' (sync DMX signal) and 'Off' (do not sync DMX signal).
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.8.7 Display lighting

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Settings'.
3. ➤ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Lock' and confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to choose between 'On' (display permanently on) and 'Off' (display turns off after a few seconds in case of inactivity).
5. ➤ To exit the menu item without making changes, press *[MODE]*.

7.1.8.8 Resetting the device to factory defaults

1. ▶ Press *[MODE]* to activate the main menu.
2. ▶ Press repeatedly *[MODE]* and select the menu item 'Settings'.
3. ▶ Confirm the selection with *[SET]* and use *[UP]* or *[DOWN]* to select the menu item 'Factory' and confirm the selection with *[SET]*.
4. ▶ Use *[UP]* or *[DOWN]* to choose between 'Yes' (reset to factory defaults) and 'No' (cancel reset).
5. ▶ To exit the menu item without making changes, press *[MODE]*.

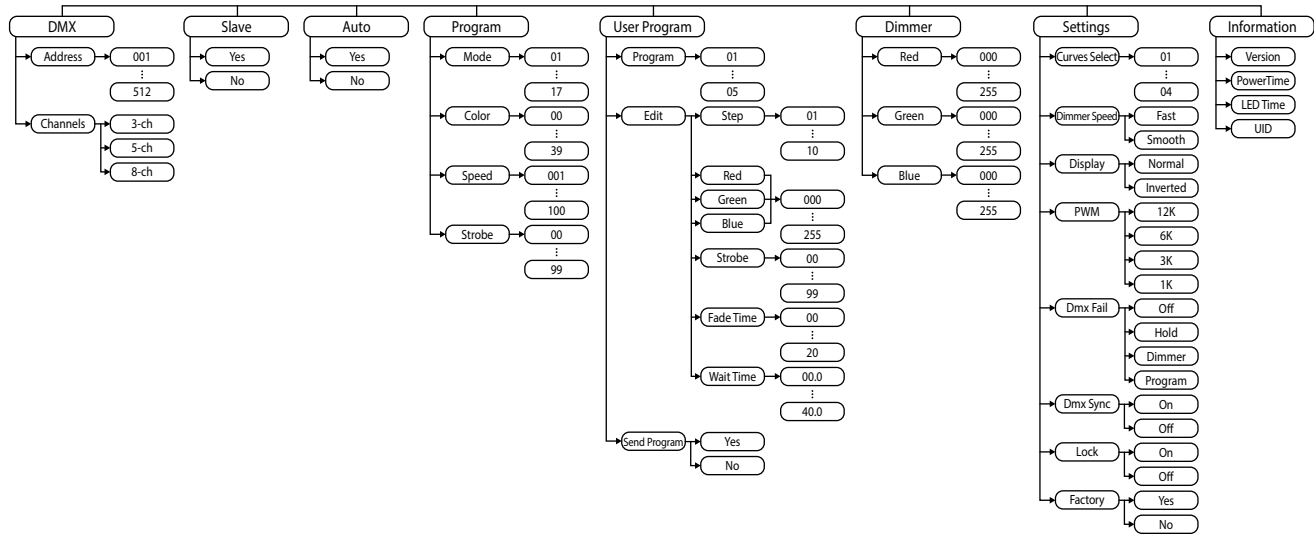
7.1.9 System information

1. ➤ Press *[MODE]* to activate the main menu.
2. ➤ Press repeatedly *[MODE]* and select the menu item 'Information'.
3. ➤ Confirm the selection with *[SET]*.
4. ➤ Use *[UP]* or *[DOWN]* to select between 'Version' (firmware version), 'PowerTime' (operating hours), 'LED Time' (LED runtime) and 'UID' (serial number) and display the relevant information.
5. ➤ To exit the menu item without making changes, press *[MODE]*.



To reset the operating hours and the LED runtime, hold down [SET] in the 'Information' menu item for five seconds and press [UP] or [DOWN] repeatedly until the display shows '0088'.

7.2 Menu overview



7.3 Functions in 3-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 %)

7.4 Functions in 5-channel DMX mode

Channel	Value	Function
1	0...255	Dimmer (0 % to 100 %)
2	0...255	Intensity red (0 % to 100 %)
3	0...255	Intensity green (0 % to 100 %)
4	0...255	Intensity blue (0 % to 100 %)
5	0...10	No function
	11...255	Stroboscope effect (0 % to 100 %), not for user programmes 01...05

7.5 Functions in 8-channel DMX mode

Channel	Value	Function
1	0...255	Dimmer (0 % to 100 %)
2	0...255	Intensity red (0 % to 100 %)
3	0...255	Intensity green (0 % to 100 %)
4	0...255	Intensity blue (0 % to 100 %)
5	Colour selection	
	0...15	No function
	16...21	Red (255), green (000), blue (000)
	22...27	Red (255), green (015), blue (000)
	28...33	Red (255), green (050), blue (000)
	34...39	Red (255), green (125), blue (000)
	40...45	Red (255), green (170), blue (000)
	46...51	Red (255), green (210), blue (000)
	52...57	Red (255), green (255), blue (000)
	58...63	Red (200), green (255), blue (000)

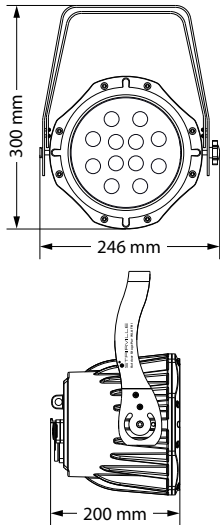
Channel	Value	Function
	64...69	Red (160), green (255), blue (000)
	70...75	Red (110), green (255), blue (000)
	76...81	Red (070), green (255), blue (000)
	82...87	Red (000), green (255), blue (000)
	88...93	Red (000), green (255), blue (010)
	94...99	Red (000), green (255), blue (025)
	100...105	Red (000), green (255), blue (040)
	106...111	Red (000), green (255), blue (070)
	112...117	Red (000), green (255), blue (120)
	118...123	Red (000), green (255), blue (255)
	124...129	Red (000), green (100), blue (255)
	130...135	Red (000), green (000), blue (255)
	136...141	Red (020), green (000), blue (255)
	142...147	Red (050), green (000), blue (255)
	148...153	Red (080), green (000), blue (255)
	154...159	Red (130), green (000), blue (255)

Channel	Value	Function
	160...165	Red (180), green (000), blue (255)
	166...171	Red (225), green (000), blue (255)
	172...177	Red (255), green (000), blue (255)
	178...183	Red (255), green (000), blue (220)
	184...189	Red (255), green (000), blue (070)
	190...195	Red (255), green (000), blue (020)
	196...201	Red (255), green (000), blue (007)
	202...207	Red (255), green (255), blue (255)
	208...213	Red (255), green (200), blue (200)
	214...219	Red (125), green (200), blue (200)
	220...225	Red (200), green (255), blue (200)
	226...231	Red (200), green (120), blue (200)
	232...237	Red (200), green (200), blue (255)
	238...243	Red (200), green (200), blue (100)
	244...255	Red (200), green (200), blue (050)
6	Programme selection	

Channel	Value	Function
	0...15	No function
	16...26	Programme 02
	27...37	Programme 03
	38...48	Programme 04
	49...59	Programme 05
	60...70	Programme 06
	71...81	Programme 07
	82...92	Programme 08
	93...103	Programme 09
	104...114	Programme 10
	115...125	Programme 11
	126...136	Programme 12
	137...147	Programme 13
	148...158	Programme 14
	159...169	Programme 15
	170...180	Programme 16

Channel	Value	Function
	181...191	Programme 17
	192...202	User programme 01
	203...213	User programme 02
	214...224	User programme 03
	225...235	User programme 04
	236...255	User programme 05
7	0...255	Programme running speed (programme 02...programme 17), increasing speed
8	0...10	No function
	11...255	Stroboscope effect (0 % to 100 %), not for user programmes 01...05

8 Technical specifications



Light source	12 × 3in1 LED, each 3 W	
Optical properties	Beam angle	20°
	Dimmer	electronic, 0 %... 100 %
	Shutter	electronic, 0 Hz... 20 Hz
Control	DMX, buttons and display on the unit	
Number of DMX channels	3, 5 or 8	
Input connections	Voltage supply	Lockable input socket Power Twist TR1 IP65
	DMX control	XLR panel plug (IP65), 3-pin
Output connections	Voltage supply further devices	Lockable output socket Power Twist TR1 IP65
	DMX control	XLR panel socket (IP65), 3-pin
Power consumption	max. 45 W	
Operating supply voltage	100 - 240 V ~ 50/60 Hz	
Protection class	IP65	
Mounting options	hanging	

Dimensions (W × H × D)	246 mm × 300 mm × 200 mm	
Weight	3.5 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	relative humidity	20 %...80 % (non-condensing)

Further information

Outdoor housing shape	Studio housing
Colour mixture	RGB
LED type	x-in-1
Floor housing	yes
Fanless	yes
Wireless DMX	No
Housing colour	black (item no. 518077) White (item no. 515366)

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:

Symptom	Remedy
The unit does not work, no light.	Check the mains connection and the fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

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 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.

