VARYTEC

LED Typhoon True PAR 12x10 Out

User Manual

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 – hot surface.
	Warning – dangerous optical radiation.

Warning signs	Type of danger
	Warning – suspended load.
	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!

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.



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.



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.



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.



WARNING!

Danger of burns on the device surface!

The surface of the device becomes very hot during operation. Skin contact can result in burns. Never touch the device with your bare hands during operation. After switching off the device, wait for at least 15 minutes before touching it.

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.

3 Features

Due to its sturdy and weather-proof die-cast aluminium housing, the device is especially suitable for outdoor use. With its very bright six-colour LEDs, it is particularly suitable for professional lighting tasks.

Special features of the device:

- 12 × six-colour LEDs (RGBWAUV, 10 W each)
- Control via DMX and via buttons and display on the device
- Pre-programmed automatic shows
- Master/slave mode
- International Protection Rating IP65
- Sturdy double bracket for secure attachment to trusses or for firm footing on the ground
- Connections for power supply and DMX control in the form of splash-proof screw-mountable and lockable plugs and couplings
- Mains power adapter with safety plug included
- Sturdy die-cast aluminium housing
- Pressure compensation element (prevents condensation inside the device)

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.

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 due to bad ventilation!

If the device is badly ventilated, the device can overheat.

Do not operate the unit at ambient temperatures outside the specified temperature range (see chapter "Technical data" of the user manual).

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.

NOTICE!

Possible damage due to moisture penetrating into open connectors!

Moisture entering open connectors (plugs and couplings) of DMX and power supply cables can cause short circuits and damage to connected fixtures.

Always seal unused connectors with end caps intended for this purpose (*www.thomann.de*).

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 two-piece 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.



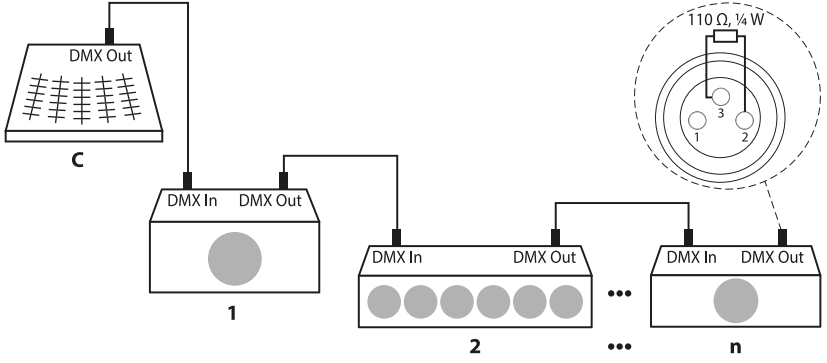
Please note that this device must not be connected to a dimmer.

5 Starting up

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

Connections in DMX mode

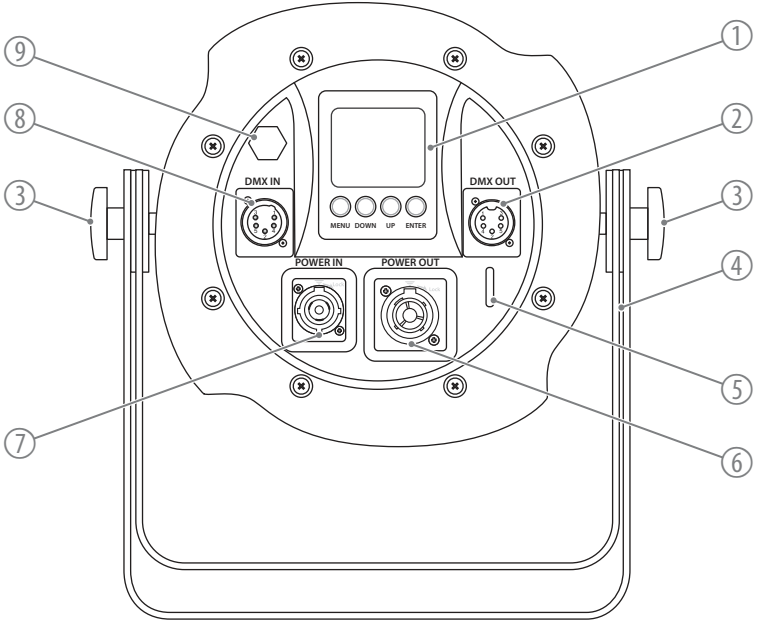
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).



Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first unit will control the 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	Display and function buttons The header displays the current operating mode, for example *'DMX'* or *'SLAVE'*. The dot-shaped DMX indicator lights up green when a DMX signal is received and red when transmission is interrupted. The current device temperature is shown on the top right. If the maximum permissible temperature is exceeded, the text appears in yellow. In the middle of the display are selected menus and set values. The status bar at the bottom of the display shows the key lock message. *'Key lock open'* means that the key lock function is off. *'Key locked'* means that the key lock function is on.
	[MENU] | Activates the main menu and switches between menu items.
	[DOWN] | Decreases the displayed value by one.
	[UP] | Increases the displayed value by one.
	[ENTER] | Selects an option of the respective operating mode.
2	*[DMX OUT]* | DMX output, designed as XLR panel socket, 5-pin
3	Locking screws for the brackets
4	Two-piece bracket for suspension or set-up
5	Safety cable eyelet
6	*[POWER OUT]* | Lockable output socket (Power Twist TR1 IP65) for powering further devices
7	*[POWER IN]* | Lockable input socket (Power Twist TR1 IP65) for the power supply of the device

8	*[DMX IN]* | DMX input, designed as XLR panel plug, 5-pin
9	Pressure equalisation element

7 Operating

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. The display shows the operating mode that was selected before the device was switched off.

7.2 Main menu

1. Press *[MENU]* to activate the main menu.
2. Press *[UP]* or *[DOWN]* to select a submenu.
3. When the display shows the required submenu, confirm with *[ENTER]*.
4. Press *[UP]* or *[DOWN]* to select a value or setting.
5. When the display shows the required submenu, confirm with *[ENTER]*.
6. Press *[MENU]* to close the main menu.

All previous settings are retained even when you disconnect the device from the power grid.

The following table shows the setting options in the menu.

Main menu	Menu level 2	Menu level 3	Menu level 4	Description
'DMX '	*'CHANNEL 03'*	3-channel DMX mode		Selecting a DMX mode
	'CHANNEL 06'	6-channel DMX mode		
	'CHANNEL 08'	08-channel DMX mode		
	'CHANNEL 10'	10-channel DMX mode		
	'CHANNEL 13'	13-channel DMX mode		
	'ADDRESS 001' … *'ADDRESS 512'*			Setting the DMX address
'RUN MODE'	*'DMX'*			"DMX" mode
	'SLAVE'			"Slave" mode
'SET UP'	*'ID number'*	Setting an individual device ID. This allows groups of devices with the same DMX address to be controlled individually via DMX channel 13.		
		'OFF'		No ID assigned
		'1' … *'66'*		Individual device ID
	'Display Led'	Automatic shut-down of the display when device not in use		
		'ON'		Enabled
		'OFF'		Disabled

Main menu	Menu level 2	Menu level 3	Menu level 4	Description
	'Key locks'	Key lock		
		'OFF'		Off
		'ON'		Enabled To unlock the keys, press *[ENTER]*, *[DOWN]*, *[UP]*, *[DOWN]*, *[UP]* and *[ENTER]* in succession.
	'Max temp'	*'002'* … *'120'*		Maximum temperature whose exceeding is to be reported on the display. Temperature in °C
	'Dimmer RED'	*'0'* … *'255'*		Maximum red intensity (0% to 100%)
	'Dimmer GREEN'	*'0'* … *'255'*		Maximum green intensity (0% to 100%)
	'Dimmer BLUE'	*'0'* … *'255'*		Maximum blue intensity (0% to 100%)
	'Dimmer WHITE'	*'0'* … *'255'*		Maximum white intensity (0% to 100%)

Main menu	Menu level 2	Menu level 3	Menu level 4	Description
	'Dimmer AMB'	*'0' … '255'*		Maximum amber intensity (0% to 100%)
	'Dimmer UV'	*'0' … '255'*		Maximum UV intensity (0% to 100%)
	'Dimmer ALL'	*'0' … '255'*		Maximum overall brightness (0% to 100%)
'INFORMATION'	*'Software Vx.y.z'*			Show firmware version of the device
	'Hardware Hx.y.z'			Show hardware version of the device
	'Fix times xh ym'			Operating hours display
'AUTO'	*'SPEED'*	*'0' … '31'*		Speed of a pre-programmed automatic show
	'AUTO MODE'	*'01' … '21'*		Selecting a pre-programmed automatic show
'CUSTOMER'	*'CUSTOM MODE'*	*'01' … '11'*		Selecting a custom automatic show
'CAL WHITE'				White balance

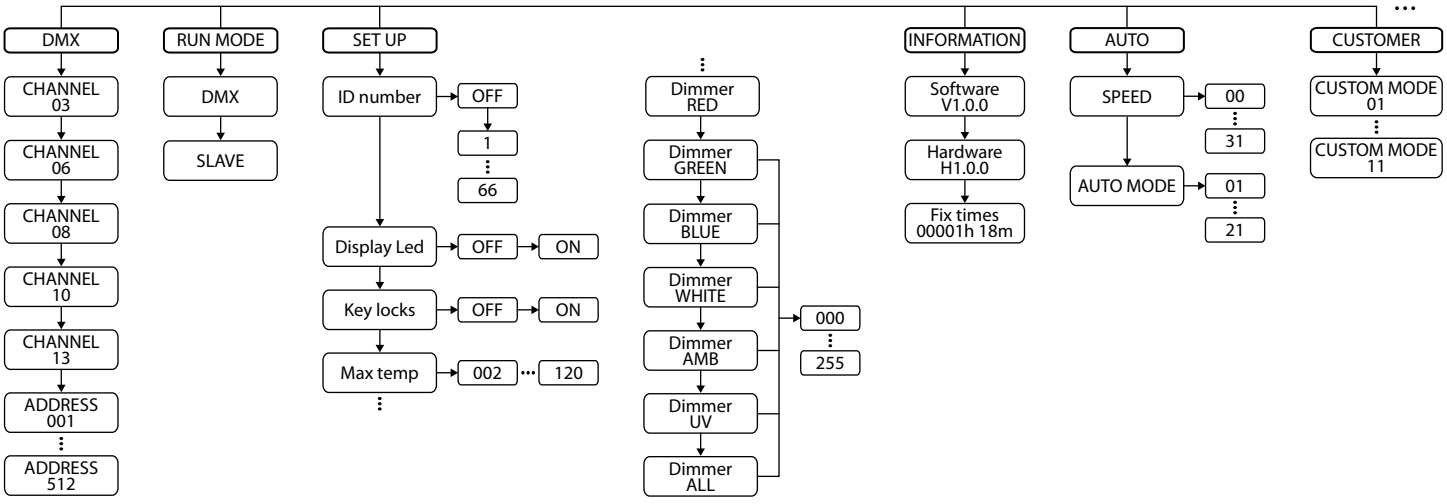
Main menu	Menu level 2	Menu level 3	Menu level 4	Description
	'WHITE1' … 'WHITE11'			Selecting the shade of white to be set
	'RED'	*'0' … '255'*		Amount of red (0% to 100%)
	'GREEN'	*'0' … '255'*		Amount of green (0% to 100%)
	'BLUE'	*'0' … '255'*		Amount of blue (0% to 100%)
	'WHITE'	*'0' … '255'*		Amount of white (0% to 100%)
	'AMB'	*'0' … '255'*		Amount of amber (0% to 100%)
	'UV'	*'0' … '255'*		Amount of UV (0% to 100%)
'STAT COLOR'				Static colour
	'STAT RED'	*'0' … '255'*		Amount of red (0% to 100%)
	'STAT GREEN'	*'0' … '255'*		Amount of green (0% to 100%)

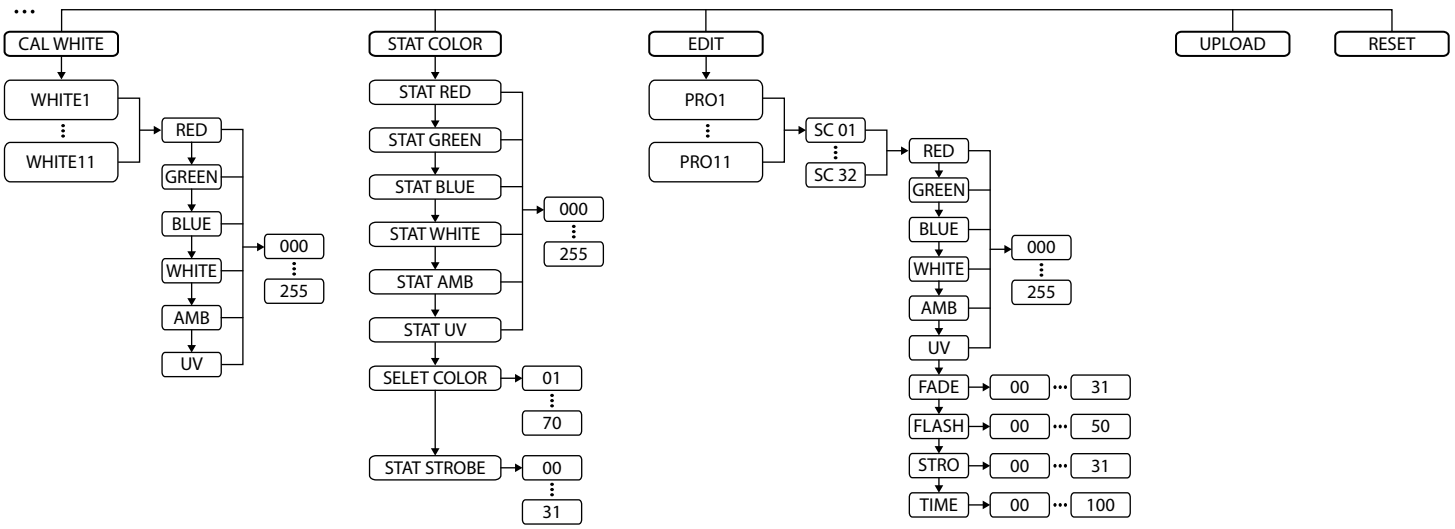
Main menu	Menu level 2	Menu level 3	Menu level 4	Description
	'STAT BLUE'	*'0' … '255'*		Amount of blue (0% to 100%)
	'STAT WHITE'	*'0' … '255'*		Amount of white (0% to 100%)
	'STAT AMB'	*'0' … '255'*		Amount of amber (0% to 100%)
	'STAT UV'	*'0' … '255'*		Amount of UV (0% to 100%)
	'SELET COLOR'	*'01' … '70'*		Selecting a pre-defined colour
	'STAT STROB'	*'01' … '70'*		Strobe effect with increasing speed
'EDIT'				Defining custom automatic shows
	'PRO1' … 'PRO11'			Selecting the show to be defined.
		'SC 01' … 'SC 32'	Selecting the scene as part of the show to be defined. Complete the definition of each scene by pressing *[ENTER]* for about five seconds.	

Main menu	Menu level 2	Menu level 3	Menu level 4	Description
		'RED'	*'0' … '255'*	Amount of red (0% to 100%)
		'GREEN'	*'0' … '255'*	Amount of green (0% to 100%)
		'BLUE'	*'0' … '255'*	Amount of blue (0% to 100%)
		'WHITE'	*'0' … '255'*	Amount of white (0% to 100%)
		'AMB'	*'0' … '255'*	Amount of amber (0% to 100%)
		'UV'	*'0' … '255'*	Amount of UV (0% to 100%)
		'FADE'	*'00' … '31'*	Fade effect
		'FLASH'	*'00' … '50'*	Flash effect
		'STRO'	*'00' … '31'*	Strobe effect
		'TIME'	*'00' … '100'*	Duration of scene

Main menu	Menu level 2	Menu level 3	Menu level 4	Description
'UPLOAD'	Distributing custom automatic shows from the master to slaves. Connect the devices configured as slaves to the master and press *[ENTER]* to transmit the data.			
'RESET'	Reset to factory defaults. Press *[ENTER]* to start a reset.			

7.3 Menu overview




...
CAL WHITE
WHITE1
WHITE11
RED
GREEN
BLUE
WHITE
AMB
UV
000
255
STAT COLOR
STAT RED
STAT GREEN
STAT BLUE
STAT WHITE
STAT AMB
STAT UV
000
255
SELET COLOR
01
70
STAT STROBE
00
31
EDIT
PRO1
PRO11
SC 01
SC 32
RED
GREEN
BLUE
WHITE
AMB
UV
000
255
FADE
00
31
FLASH
00
50
STRO
00
31
TIME
00
100
UPLOAD
RESET

7.4 Functions in 3-channel DMX mode

Channel	Value	Function
1	0…255	Hue
2	0…255	Saturation (0% to 100%)
3	0…255	Brightness (0% to 100%)

7.5 Functions in 6-channel DMX mode

Channel	Value	Function
1	0…255	Red intensity (0% to 100%)
2	0…255	Green intensity (0% to 100%)
3	0…255	Blue intensity (0% to 100%)
4	0…255	White intensity (0% to 100%)
5	0…255	Amber intensity (0% to 100%)
6	0…255	UV intensity (0% to 100%)

7.6 Functions in 8-channel DMX mode

Channel	Value	Function
1	0…255	Brightness (0% to 100%)
2	0…255	Red intensity (0% to 100%)
3	0…255	Green intensity (0% to 100%)
4	0…255	Blue intensity (0% to 100%)
5	0…255	White intensity (0% to 100%)
6	0…255	Amber intensity (0% to 100%)
7	0…255	UV intensity (0% to 100%)
8	Dimmer curves with afterglow effect	
	0…49	Standard
	50…99	Dimmer mode 1 (slight afterglow)
	100…149	Dimmer mode 2
	150…199	Dimmer mode 3
	200…255	Dimmer mode 4 (strong afterglow)

7.7 Functions in 10-channel DMX mode

Channel	Value	Function
1	0…255	Brightness (0% to 100%)
2	0…255	Red intensity (0% to 100%)
3	0…255	Green intensity (0% to 100%)
4	0…255	Blue intensity (0% to 100%)
5	0…255	White intensity (0% to 100%)
6	0…255	Amber intensity (0% to 100%)
7	0…255	UV intensity (0% to 100%)
8	Colour selection	
	0…19	None
	20…23	Red
	24…27	Green
	28…31	Blue
	32…35	Yellow
	36…39	Cyan

Channel	Value	Function
	40…43	Magenta
	44…47	White
	48…51	Orange
	52…55	Pink
	56…59	Purple
	60…63	Aquamarine
	64…67	Azure
	68…71	Mint white 1
	72…75	Soft pink
	76…79	Light blue
	80…83	Mint white 2
	84…87	Bright pink
	88…91	Yellow 2
	92…95	Straw
	96…99	RGB white
	100…103	Light pink

Channel	Value	Function
	104…107	Dark pink
	108…111	Magenta 2
	112…115	Turquoise
	116…119	Medium teal
	120…123	Teal
	124…127	Bright pink
	128…131	Medium blue
	132…135	Golden amber
	136…139	Deep golden amber
	140…143	Bright lavender
	144…147	Apricot
	148…151	Dark lavender
	152…155	Chocolate
	156…159	Simple blue
	160…163	Surprise pink
	164…167	Scarlet

Channel	Value	Function
	168…171	Surprise peach
	172…175	Dirty white 1
	176…179	English rose
	180…183	Mauve
	184…187	Bright blue
	188…191	Alice blue
	192…195	Indigo pink
	196…199	Urban blue
	200…203	Cold blue
	204…207	Light salmon
	208…211	Dirty white 2
	212…215	Cherry rose
	216…219	Flesh-coloured
	220…223	Skeleton Exotic Sangria
	224…255	Bright rose
9	Colour macros	

Channel	Value	Function
	0…6	No function
	7…255	Virtual colour wheel with 36 colour macros
10	Strobe effect	
	0…8	No function
	9…255	Strobe effect, increasing speed (0 Hz…20 Hz)

7.8 Functions in 13-channel DMX mode

Channel	Value	Function
1	0…255	Brightness (0% to 100%)
2	0…255	Red intensity (0% to 100%)
3	0…255	Green intensity (0% to 100%)
4	0…255	Blue intensity (0% to 100%)
5	0…255	White intensity (0% to 100%)
6	0…255	Amber intensity (0% to 100%)
7	0…255	UV intensity (0% to 100%)
8	Automatic colour transition	
	0…10	No function
	11…90	Colour macro 1…8
	91…100	Pulse effect green/red
	101…110	Pulse effect blue/red
	111…120	Pulse effect blue/green
	121…130	Pulse effect yellow/blue

Channel	Value	Function
	131…140	Pulse effect light blue / red
	141…150	Pulse effect green/pink
	151…160	Colour change mint/yellow/magenta
	161…170	Colour change blue/red/magenta
	171…180	Colour change, shades of blue
	181…190	UV pulse effect
	191…200	RGBW 100%
	201…205	White 1
	206…210	White 2
	211…215	White 3
	216…220	White 4
	221…225	White 5
	226…230	White 6
	231…235	White 7
	236…240	White 8
	241…245	White 9

Channel	Value	Function
	246…250	White 10
	251…255	White 11
9	0…255	Running speed, if channel 10 = 9…255
	0…8	Standard
	9…255	Strobe effect with increasing speed
10	Automatic show	
	0…8	Standard
	9…10	Colour change RGBWA/UV
	11…20	Colour change with 22 colours
	21…30	Ramp effect up/down
	31…40	Fade programme with 22 colours
	41…50	Multi-colour strobe effect with six colours
	51…60	Colour change with 24 colours
	61…70	Colour change with 27 colours
	71…80	Colour fade programme with pastel colours
	81…90	Multi-colour strobe effect with 24 colours

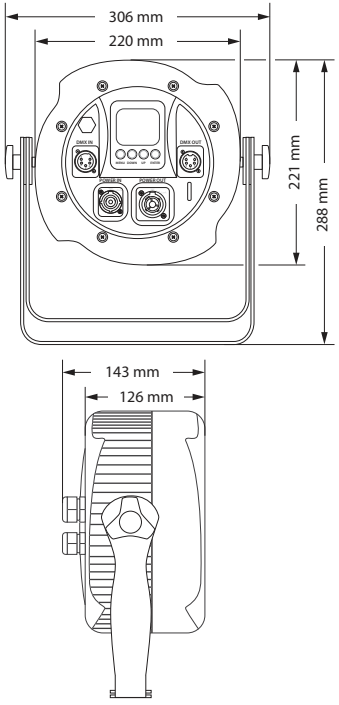
Channel	Value	Function
	91…100	Custom automatic show 1
	101…110	Custom automatic show 2
	111…120	Custom automatic show 3
	121…130	Custom automatic show 4
	131…140	Custom automatic show 5
	141…150	Custom automatic show 6
	151…160	Custom automatic show 7
	161…170	Custom automatic show 8
	171…180	Custom automatic show 9
	181…190	Custom automatic show 10
	200…255	Custom automatic show 11
11	0…255	Running speed, if channel 10 = 9…255
12	Dimmer curves with afterglow effect	
	0…49	Standard
	50…99	Dimmer mode 1 (slight afterglow)
	100…149	Dimmer mode 2

Channel	Value	Function
	150…199	Dimmer mode 3
	200…255	Dimmer mode 4 (strong afterglow)
13	ID assignment for devices with the same DMX address according to the following table. If an ID is set on the device, it only reacts if this ID is selected with channel 13.	

Value	Meaning	Value	Meaning	Value	Meaning	Value	Meaning
0…9	All IDs	170…179	ID 17	223	ID 34	240	ID 51
10…19	ID 1	180…189	ID 18	224	ID 35	241	ID 52
20…29	ID 2	190…199	ID 19	225	ID 36	242	ID 53
30…39	ID 3	200…209	ID 20	226	ID 37	243	ID 54
40…49	ID 4	210	ID 21	227	ID 38	244	ID 55
50…59	ID 5	211	ID 22	228	ID 39	245	ID 56
60…69	ID 6	212	ID 23	229	ID 40	246	ID 57
70…79	ID 7	213	ID 24	230	ID 41	247	ID 58
80…89	ID 8	214	ID 25	231	ID 42	248	ID 59
90…99	ID 9	215	ID 26	232	ID 43	249	ID 60

Value	Meaning	Value	Meaning	Value	Meaning	Value	Meaning
100…109	ID 10	216	ID 27	233	ID 44	250	ID 61
110…119	ID 11	217	ID 28	234	ID 45	251	ID 62
120…129	ID 12	218	ID 29	235	ID 46	252	ID 63
130…139	ID 13	219	ID 30	236	ID 47	253	ID 64
140…149	ID 14	220	ID 31	237	ID 48	254	ID 65
150…159	ID 15	221	ID 32	238	ID 49	255	ID 66
160…169	ID 16	222	ID 33	239	ID 50		

8 Technical specifications



Light source		12 × 6-in-1 RGBAW-UV LED, 10 W each
Optical properties	Beam angle	15°
Control		DMX, buttons and display on the device
Number of DMX channels		3, 6, 8, 10 or 13
Input connections	Power supply	1 × lockable input socket (Power Twist TR1 IP65)
	DMX control	1 × XLR panel plug (IP65), 5-pin
Output connections	Power supply for further devices	1 × lockable output socket (Power Twist TR1 IP65) Output current, max.: 6 A
	DMX control	1 × XLR panel socket (IP65), 5-pin
Power consumption		120 W
Supply voltage		100 - 240 V ~ 50/60 Hz
International Protection Rating		IP65
Mounting options		Hanging, standing

Dimensions (W × H × D)		305 mm × 143 mm × 288 mm
Weight		4.54 kg
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

Design	Flat PAR
Number of LEDs	12
Colour mix	RGBAWUV
LED type	x-in-1
Floor housing	Yes
Fanless	Yes
Remote control	Not possible
Wireless DMX	No
Housing colour	Black
Matching case for 10 spotlights	Optionally available (item no. 466495)

9 Plug and connection assignment

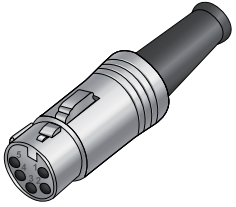
Introduction

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

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

DMX connections

A five-pin XLR socket serves as DMX output, a five-pin XLR plug serves as DMX input. The drawing below and the table show the pin assignment of a matching coupling.



Pin	Assignment
1	Ground (shielding)
2	Signal inverted (DMX–, 'cold')
3	Signal (DMX+, 'hot')
4	unused / second connection (DMX–)
5	unused / second connection (DMX+)

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 the fuse.
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.

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

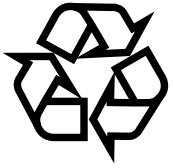
Optical lenses

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.

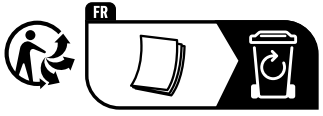
12 Protecting the environment

Disposal of the packing material



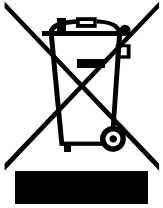
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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 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.