ignition

Contour Monster Beam 760
moving head

user manual

Table of contents

1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

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

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.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor 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 – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as moving-head spotlight. The device is designed for professional use 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.

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 high voltages inside**
> Within the device there are areas where high voltages may be present. Never remove any covers.
>
> There are no user-serviceable parts inside.
>
> Do not use the device if covers, protectors or optical components are missing or damaged.

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

> **WARNING!**
> **Eye damage caused by high light intensity**
> Never look directly into the light source.

WARNING!
Risk of epileptic shock

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

WARNING!
Risk of injury by falling off

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.

The carrying capacity of the truss or other mounting must be sufficient for the intended number of devices. Note that the movement of the head may additionally stress the load-bearing structures.

CAUTION!
Risk of injury due to movements of the device

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

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!
Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

The device must not be moved while it is in use.

! **NOTICE!**

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

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

! **NOTICE!**

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

The moving head is particularly suitable for professional lighting tasks, for example at events, on rock stages, in theatres and musicals or in night clubs.

Special features of the device:

- Seven 60 W COB-RGBW LEDs, individually controllable
- Control via DMX (26, 45 or 54 channels) ArtNet (EtherCon in and output) as well as via buttons and high-resolution multi-colour display on the unit
- Rotation (pan) from 0° to 540°
- Inclination (tilt) from 0° to 270°
- Preprogrammed automatic show programmes
- Sound control
- Master / Slave mode
- Strobe effect, mega zoom, BeamSplit flower effect
- Endlessly rotatable lens system for grading effects
- Electronic dimmer
- Robust housing with two integrated carrying handles
- Power cable and Omega Bracket with quick locks included

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Lift the device only at the base. When lifted at the rotatable mounting, the device may be damaged.

You can install the device standing or hanging. When in use, the device must be mounted at a solid surface or clamped to an approved truss.

Work from a stable platform whenever you install or move the device or when you perform any kind of maintenance. Block access under the work area.

> **WARNING!**
> **Risk of injury by falling off**
> 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.
>
> The carrying capacity of the truss or other mounting must be sufficient for the intended number of devices. Note that the movement of the head may additionally stress the load-bearing structures.

> **NOTICE!**
> **Risk of overheating**
> Always ensure sufficient ventilation.
>
> The ambient temperature must always be below 40 °C (104 °F).

> **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

The quick lock openings on the housing bottom are used for secure attachment of Omega brackets. To these, the flight adapters (Half Coupler, Trigger Clamps, C-hooks, etc.) are attached. The safety cable must be routed through the cut-outs on the bottom of the housing.
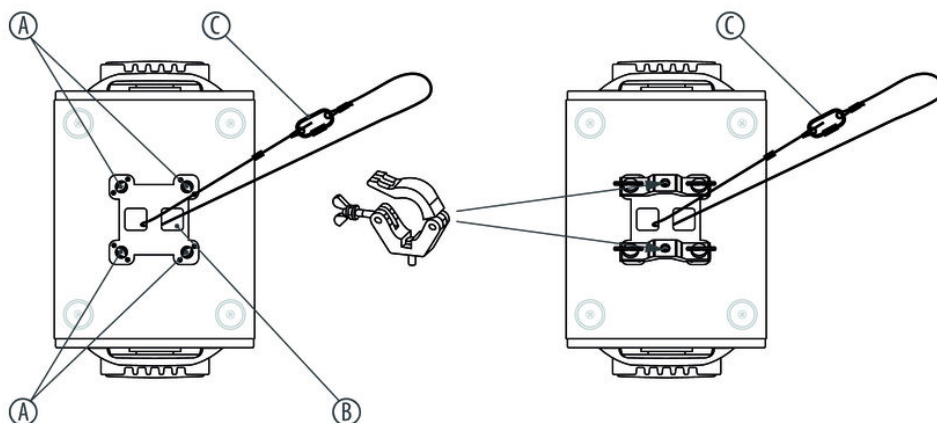
A	Fastening element with quick release openings
B	Openings for safety cable
C	Safety cable

Transport protection

The lever for the transport protection is located at the lower edge of the head carrier. To enable the transport protection, switch the unit off, turn the head into a position at right angles to the unit's base and engage the lever. To release the transport protection, pull the lever back. The head carrier is then free to move again.

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

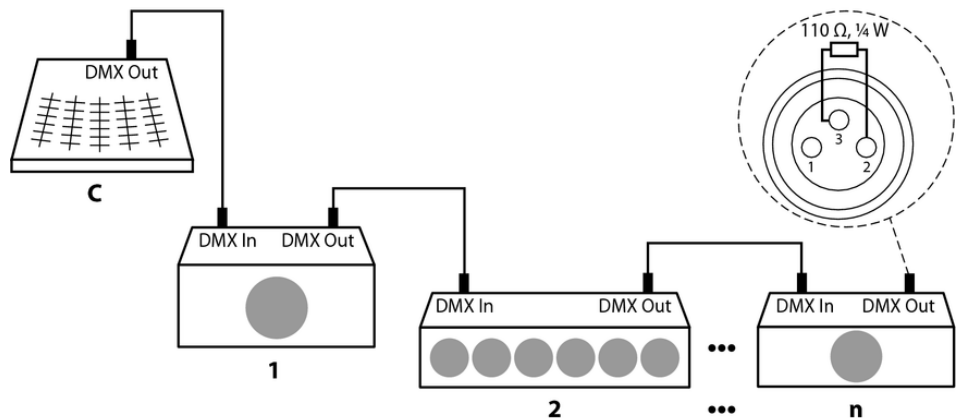Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor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

In the top line of the display the status of the DMX data transmission is indicated by a coloured dot behind the word *'Dmx'*. A green dot indicates that data is being received. A red dot indicates a missing or disturbed connection.

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

Overview
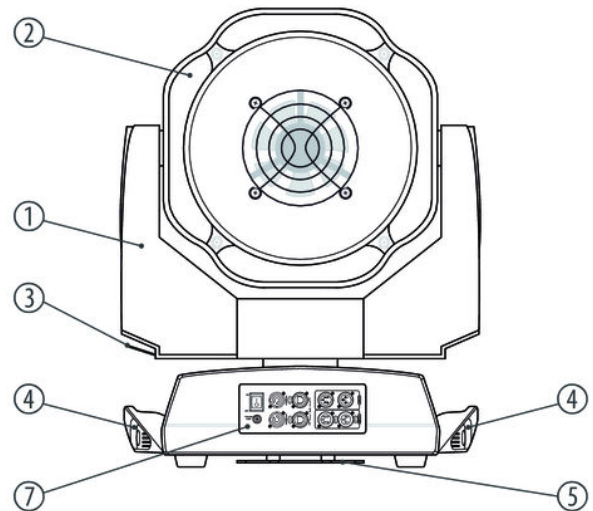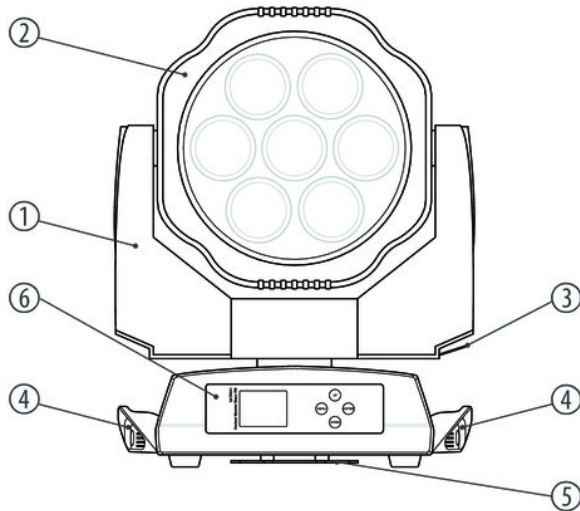
1	Rotatable head carrier
2	Movable head
3	Transport protection lever
4	Handles
5	Fastening element
6	Operating panel with display
7	Connection panel with power supply, fuse holder, Ethernet and DMX connections

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Connections and operating elements
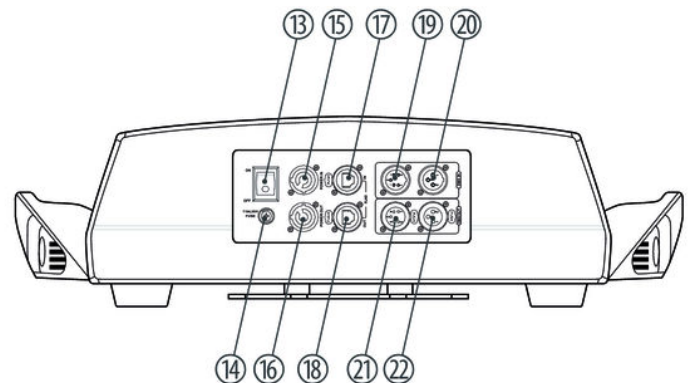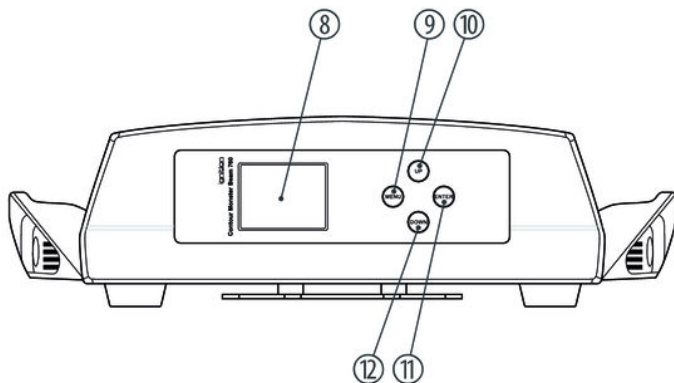
8	Display.
	When the main menu is activated, the display shows the current menu item and the set option. When the main menu is closed, it shows the current operating mode. The display is dimmed a few seconds after the last keystroke.
9	*[MENU]*
	Activates the main menu and toggles between menu items. Closes an open submenu without saving any changes.
10	*[UP]*
	Increases the displayed value by one.
11	*[ENTER]*
	Selects an option of the respective operating mode.
12	*[DOWN]*
	Decreases the displayed value by one.
13	*[ON	OFF]*
	Main switch. Switches the device on and off.
14	*[FUSE]*
	Fuse holder. Should the fuse have blown, disconnect the unit from the power supply and replace the fuse with a new fuse of the same type.
15	*[POWER IN]*
	Lockable PowerTwist input socket (NAC3FA) for power supply.
16	*[POWER OUT]*
	Lockable PowerTwist output socket for the power supply of further units.
17	*[RJ45 IN]*
	RJ45 Ethernet input

18	*[RJ45 OUT]*
	RJ45 Ethernet output
19, 20	*[DMX IN]*
	3 or 5-pin DMX input
21, 22	*[DMX OUT]*
	3 or 5-pin DMX output

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7   Operating

7.1   Starting the device

> ⚠️ **CAUTION!**
> **Risk of injury due to movements of the device**
>
> The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.
>
> Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

Make sure that the transport protection is not engaged and that the head carrier is free to move. Connect the device to the power grid and turn it on with the main switch to start operation. After a few seconds, the fans start to work, the head moves to the home positions for rotation (pan) and inclination (tilt), the screen displays a start message. After a few more seconds, the device operates in the last set mode.

7.2   Main menu

Press *[ENTER]* to activate the main menu. Use the buttons *[UP]* or *[DOWN]* to select a submenu. When the display shows the desired submenu, press *[ENTER]* to open it. To close the main menu, press *[MENU]*. The stored values are displayed in white in the display. Changed values are displayed in red until they are confirmed by *[ENTER]* .

All previously made settings are retained even when you disconnect the device from the power grid. To restart with default values, use the function *'System Reset'* .

Selecting DMX mode

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'USERS MODE'* . Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can choose between the following DMX operating modes: *'Stand mode'* (26 channels), *'Shapes'* (45 channels) or *'Extended'* (54 channels). This setting is only relevant when the device is controlled via DMX.

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

DMX address

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'ADDRESS'* . Press *[ENTER]*. The display shows *'Set DMX Address'* . Press *[ENTER]*. Now you can set the number of the first DMX channel to be used by the device (DMX address). Use the buttons *[UP]* or *[DOWN]* to select a value between 1 and 512.

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

Selecting the operating mode

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INTRO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Run'*. Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can select an operating mode:

- *'DMX512'*: The device is controlled via DMX.
- *'Artnet'*: The device is controlled via Art-Net.
- *'Auto 1'*: Automatic show 1
- *'Auto 2'*: Automatic show 2
- *'Sound1'*: Sound-controlled automatic show 1
- *'Sound2'*: Sound-controlled automatic show 2
- *'Slave'*: The device is controlled by another device, which is configured as master.
- *'Static'*: Static operation, all parameters of the device can be set individually.

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

In the modes *'Sound1'*, *'Sound2'*, *'Auto 1'* and *'Auto 2'*, the device can serve as master in a master-slave combination.

Static operation settings

The table below shows the available menu options in static operation, the respective value range and the individual functions.

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

Option	Value range	Function
Red	0…255	Intensity red (0 % to 100 %)
Green	0…255	Intensity green (0 % to 100 %)
Blue	0…255	Intensity blue (0 % to 100 %)
White	0…255	Intensity white (0 % to 100 %)
Linear CTO	White with adjustable colour temperature (Linear CTO)	
	0…9	Blackout
	10…19	2500 K
	20…29	3200 K
	30…39	4000 K
	40…49	5000 K
	50…59	6000 K
	60…69	7200 K
	70…79	8000 K
	80…89	10000 K
	90…255	Blackout
Macro color	0…9	Blackout
	10…12	Red
	13…15	Green
	16…18	Blue
	19…21	Cyan
	21…24	Yellow
	25…27	Magenta
	28…30	White 7000K
	31…33	White 3700K
	34…36	White 5000K
	37…39	Blackout
	40…42	Mid yellow
	43…45	Straw

Option	Value range	Function
	46…48	Peach
	49…51	Fire
	52…54	Mid amber
	55…57	Gold amber
	58…60	Dark amber
	61…63	Red sunrise
	64…66	Bright pink
	67…69	Mid pink
	70…72	Carnation
	73…75	Bright lavender
	76…78	Lavender
	79…81	Sky-blue
	82…84	Simple blue
	85…87	Dark yellow-green
	88…90	Spring-yellow
	91…93	Bright amber
	94…96	Straw
	97…99	Intense amber
	100…102	Orange
	103…105	Bright pink
	106…108	English rose
	109…111	Bright salmon-coloured
	112…114	Mid pink
	115…117	Dark pink
	118…120	Magenta
	121…123	Peacock blue
	124…126	Mid blue-green
	127…129	Steel-blue
	130…132	Light blue
	133…135	Dark blue
	136…138	Leaf green
	139…141	Dark green

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Option	Value range	Function
	142…144	Mauve
	145…147	Mid pink
	151…153	Intense golden-amber
	154…156	Pale lavender
	157…159	Special lavender
	160…162	Pale gold
	163…165	Deep orange
	166…168	Normal amber
	169…171	Flame-red
	172…174	Daylight-blue
	175…177	Lilac
	178…180	Intense lavender
	181…183	Dark steel-blue
	184…186	Congo-blue
	187…189	Bright azure
	190…192	Dark white
	193…195	White
	196…198	Rainbow 1
	199…201	Rainbow 2
	202…204	Rainbow 3
	205…207	Rainbow 4
	208…210	Rainbow 5
	211…213	Rainbow 6
	214…216	Rainbow 7
	217…219	Rainbow 8
	220…222	Rainbow 9
	223…225	Rainbow 10
	226…228	Rainbow 11
	229…231	Rainbow 12
	232…234	Rainbow 13
	235…237	Rainbow 14
	238…240	Rainbow 15

Option	Value range	Function	
	241…243	Rainbow 16	21
	244…246	Rainbow 17	
	247…249	Rainbow 18	
	250…252	Rainbow 19	
	253…255	Rainbow 20	
Strobe	Strobe effect		
	0…31	No strobe effect, LED off	
	32…63	No strobe effect, LED on	
	64…95	Strobe effect, increasing speed	
	96…127	No strobe effect, LED on	
	128…159	Pulse effect in individual sequences	
	160…191	No strobe effect, LED on	
	192…223	Strobe effect, random speed	
	224…255	No strobe effect, LED on	
Dimmer	0…255	Dimmer (0 % to 100 %)	
Pan	0…255	Rotation (pan) (0° to 540°)	
Pan 16bit	0…255	Fine adjustment for rotation (pan)	
Tilt	0…255	Inclination (tilt) (0° to 200°)	
Tilt 16bit	0…255	Fine adjustment for inclination (tilt)	
Function	Dimmer curve		
	0…9	Standard value, gamma = 2	
	10…19	Gamma = 1, dimmer curve 1	
	20…29	Gamma = 2, dimmer curve 2	
	30…39	Gamma = 3, dimmer curve 3	
	40…49	Gamma = 4, dimmer curve 4	
	50…255	Without function	
Reset	0…255	Reset	
Zoom	0…255	Zoom, 4° to 50°	
Zoom rotation	0…255	Rotation of zoom unit	
Shape selection	Pattern selection		
	0…9	Without function	
	13…10	Pattern 1 (unicoloured, static)	

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Option	Value range	Function
	14…17	Pattern 2 (unicoloured, static)
	18…21	Pattern 3 (unicoloured, static)
	22…25	Pattern 4 (unicoloured, static)
	26…29	Pattern 5 (unicoloured, static)
	30…33	Pattern 6 (unicoloured, static)
	34…37	Pattern 7 (unicoloured, static)
	38…41	Pattern 8 (unicoloured, static)
	42…45	Pattern 9 (unicoloured, static)
	46…49	Pattern 10 (unicoloured, static)
	50…53	Pattern 11 (unicoloured, static)
	54…57	Pattern 12 (unicoloured, static)
	58…61	Pattern 13 (unicoloured, static)
	62…65	Pattern 14 (unicoloured, static)
	66…69	Pattern 15 (unicoloured, static)
	70…73	Pattern 16 (unicoloured, static)
	74…77	Pattern 17 (unicoloured, static)
	78…81	Pattern 18 (unicoloured, static)
	82…85	Pattern 19 (unicoloured, static)
	86…89	Pattern 20 (unicoloured, static)
	90…93	Pattern 21 (unicoloured, static)
	94…97	Pattern 22 (unicoloured, static)
	98…101	Pattern 23 (unicoloured, static)
	102…105	Pattern 24 (unicoloured, static)
	106…109	Pattern 25 (unicoloured, dynamic)
	110…113	Pattern 26 (unicoloured, dynamic)
	114…117	Pattern 27 (unicoloured, dynamic)
	118…121	Pattern 28 (unicoloured, dynamic)
	122…125	Pattern 29 (unicoloured, dynamic)
	126…129	Pattern 30 (unicoloured, dynamic)
	130…133	Pattern 31 (unicoloured, dynamic)
	134…137	Pattern 32 (unicoloured, dynamic)
	138…141	Pattern 33 (unicoloured, dynamic)

Option	Value range	Function
	142…145	Pattern 34 (unicoloured, dynamic)
	146…149	Pattern 35 (unicoloured, dynamic)
	150…153	Pattern 36 (unicoloured, dynamic)
	154…157	Pattern 37 (unicoloured, dynamic)
	158…161	Pattern 38 (unicoloured, dynamic)
	162…165	Pattern 39 (unicoloured, dynamic)
	166…169	Pattern 40 (multicoloured, dynamic)
	170…173	Pattern 41 (multicoloured, dynamic)
	174…177	Pattern 42 (multicoloured, dynamic)
	178…181	Pattern 43 (multicoloured, dynamic)
	182…185	Pattern 44 (multicoloured, dynamic)
	186…189	Pattern 45 (multicoloured, dynamic)
	190…193	Pattern 46 (multicoloured, dynamic)
	194…197	Pattern 47 (multicoloured, dynamic)
	198…201	Pattern 48 (multicoloured, dynamic)
	202…205	Pattern 49 (multicoloured, dynamic)
	206…209	Pattern 50 (multicoloured, dynamic)
	210…213	Pattern 51 (multicoloured, dynamic)
	214…217	Pattern 52 (multicoloured, dynamic)
	218…221	Pattern 53 (multicoloured, dynamic)
	222…225	Pattern 54 (multicoloured, dynamic)
	226…255	Pattern 55 (random)
Shape speed	0…255	Pattern speed
Shape fade	0…255	Pattern fade out
Shape red	0…255	Intensity red (0 % to 100 %) of the pattern
Shape green	0…255	Intensity green (0 % to 100 %) of the pattern
Shape blue	0…255	Intensity blue (0 % to 100 %) of the pattern
Shape white	0…255	Intensity white (0 % to 100 %) of the pattern
Shape dimmer	0…255	Pattern brightness
Shape background	0…255	Background brightness

Pan inversion	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Pan'*. Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can select between *'Normal'* (normal rotation direction) and *'Reverse'* (inverted rotation direction).
	When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.
Tilt inversion	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Tilt'*. Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can select between *'Normal'* (normal direction of inclination) and *'Reverse'* (inverted direction of inclination).
	When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.
Fan control	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Fan Control'*. Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can select between *'Auto'* (automatic fan speed control), *'High'* (continuous high fan speed control) and *'Low'* (continuous low fan speed control).
	When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.
Setting the display off time	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp. Setting'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Shut off time'*. Press *[ENTER]*.
	With the buttons *[UP]* or *[DOWN]* you can set a value between 2 and 60 minutes. If no button is pressed during this period, the display automatically switches off until the next keystroke.
	When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.
Display reversal	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp. Setting'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Flip display'*. Press *[ENTER]*.
	With the buttons *[UP]* or *[DOWN]* you can choose between *'ON'* (display is rotated by 180°) and *'OFF'* (normal display).
	When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.
Locking the buttons	Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp. Setting'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Key lock'*. Press *[ENTER]*.
	Press *[UP]* or *[DOWN]* until the display shows *'ON'*. Press *[ENTER]*. The buttons of the device are now locked against unintended or unauthorized operation.

Unlocking the buttons

Press *[ENTER]* for three seconds. The key lock is now temporarily cancelled, but it is automatically re-activated if you do not press any buttons. To permanently deactivate the key lock, press *[MENU]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp. Setting'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Key lock'*. Press *[ENTER]*.

Press *[UP]* or *[DOWN]* until the display shows *'OFF'*. Press *[ENTER]*. The buttons of the device are unlocked again.

DMX display

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp. Setting'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Disp flash'*. Press *[ENTER]*.

With the buttons *[UP]* or *[DOWN]* you can choose between *'ON'* (display flashes when no DMX signal is present and remains dark) and *'OFF'* (normal display).

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

Error correction

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Encode'*. Press *[ENTER]*.

With the buttons *[UP]* or *[DOWN]* you can select between *'ON'* (error correction on data transmission enabled) and *'OFF'* (error correction off).

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

Behaviour on missing DMX signal.

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'DMX Fail'*. Press *[ENTER]*.

With the buttons *[UP]* or *[DOWN]* you can specify how the unit behaves in the DMX mode when the DMX signal fails. Choose between:

- *'Blackout'*: Blackout
- *'Hold'*: Proceed operation with the last settings
- *'Auto'*: Change to automatic show

When the display shows the desired value press *[ENTER]* to save the settings. Press *[MENU]* to close the menu.

Default settings

With this function, you can reset the device to factory default settings.

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Factory Reset'*. Press *[ENTER]*.

Press *[UP]* or *[DOWN]* until the display shows *'Yes'*. Press *[ENTER]*. The device now performs a reset.

Operating hours display

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INFO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Time info'*. Press *[ENTER]*. With the buttons *[UP]* or *[DOWN]* you can select the value to be displayed:

■ *'Power on'* : Time since last power up
■ *'Ttl Life Hrs'* : Total operating hours
■ *'Last Run Hrs'* : Operating hours of last run

Press *[ENTER]*. The display shows the corresponding value in hours.

To end the display and return to the parent menu, press *[ENTER]*.

Temperature display

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INFO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Temp info'*. Press *[ENTER]*. The display shows the temperature of the LEDs.

To end the display and return to the parent menu, press *[ENTER]*.

Software version

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INFO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Software Ver'*. Press *[ENTER]*. The software version of the device will now appear on the display.

To end the display and return to the parent menu, press *[ENTER]*.

Self test

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'TEST'*. Press *[ENTER]*. With *[UP]* or *[DOWN]* you can select the test to be performed:

■ *'Test All'* : Test of all functions
■ *'Test Pan&Tilt'* : Tests the motors for pan and tilt
■ *'Test LED'* : Tests the LEDs.

The selected test starts right away.

To end the running test and return to the parent menu, press *[ENTER]*.

Resetting the movable axes

With this function, you can reset all movable axes to their home position.

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INTRO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Reset'*. Press *[ENTER]*.

Press *[UP]* or *[DOWN]* until the display shows *'Yes'*. Press *[ENTER]*. The device now performs a reset.

Calibration

This function allows you to adjust the home position of all movable axes.

Press *[ENTER]*, then *[UP]* or *[DOWN]* until the display shows *'INTRO'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Calibration'*. Press *[ENTER]*. Press *[UP]* or *[DOWN]* until the display shows *'Password'*. Press *[ENTER]*. Use *[UP]* or *[DOWN]* to enter the password 033 and confirm with *[ENTER]*.

With *[UP]* or *[DOWN]* you can select the axis whose home position is to be adjusted.

- *'Pan'*: Rotation (pan)
- *'Tilt'*: Inclination (tilt)
- *'Zoom'*: Mechanical zoom
- *'Zoom Rot'*: Mechanical zoom rotation

Press *[ENTER]*. With *[UP]* or *[DOWN]* you can enter a value between 0 and 255 and adjust the axis accordingly. Confirm with *[ENTER]*.

Overview
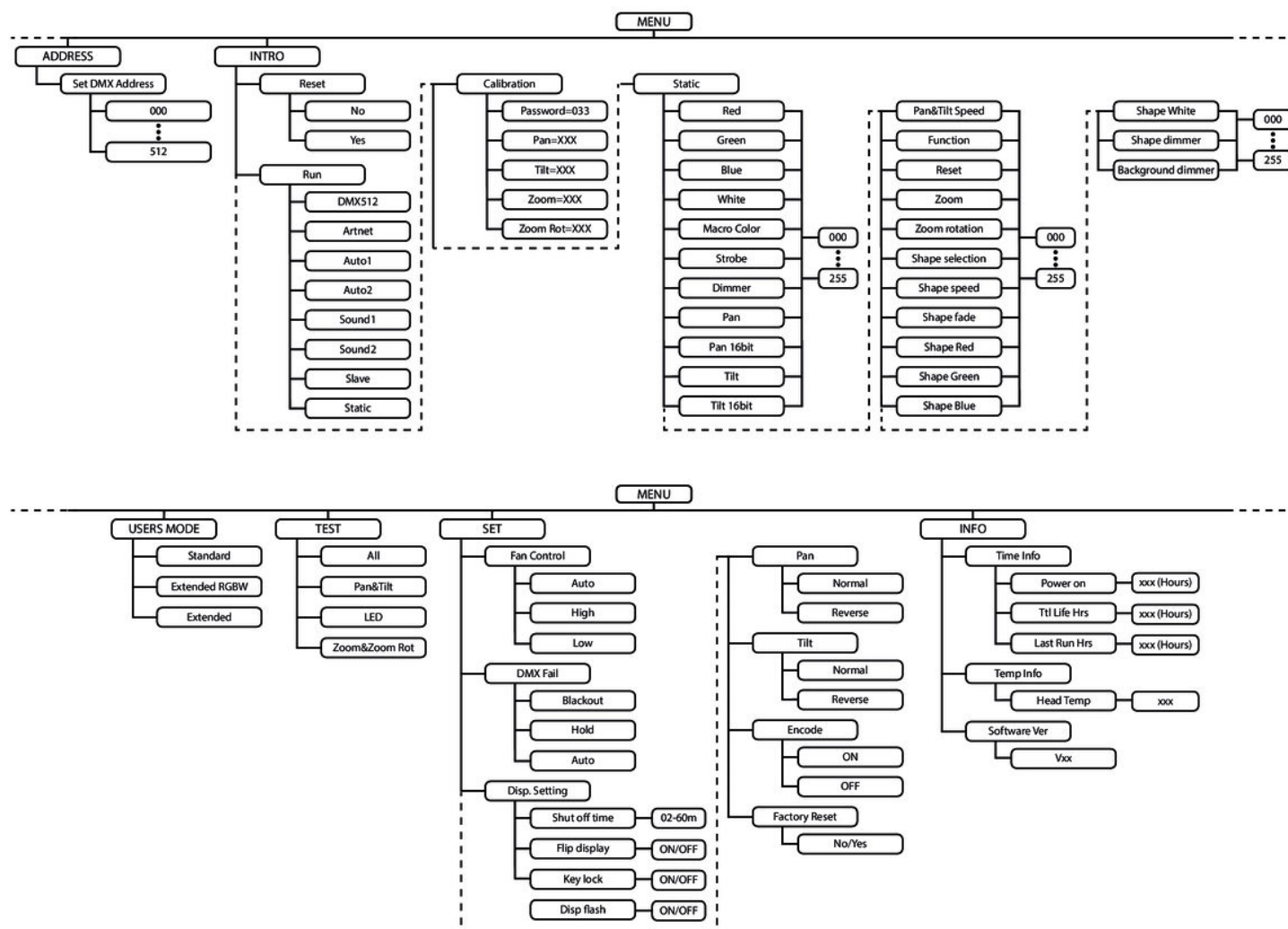
7.3 Functions in DMX mode

Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
1	1	1	0…255	Intensity red (0 % to 100 %)
2	2	2	0…255	Intensity green (0 % to 100 %)
3	3	3	0…255	Intensity blue (0 % to 100 %)
4	4	4	0…255	Intensity white (0 % to 100 %)
5	5	5		White with adjustable colour temperature (Linear CTO)
			0…9	Blackout
			10…19	2500 K
			20…29	3200 K
			30…39	4000 K
			40…49	5000 K
			50…59	6000 K
			60…69	7200 K
			70…79	8000 K
			80…89	10000 K
			90…255	Blackout
6	6	6	0…9	Blackout
			10…12	Red
			13…15	Green
			16…18	Blue
			19…21	Cyan
			21…24	Yellow
			25…27	Magenta
			28…30	White 7000K
			31…33	White 3700K
			34…36	White 5000K
			37…39	Blackout
			40…42	Mid yellow
			43…45	Straw
			46…48	Peach

Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
			49…51	Fire
			52…54	Mid amber
			55…57	Gold amber
			58…60	Dark amber
			61…63	Red sunrise
			64…66	Bright pink
			67…69	Mid pink
			70…72	Carnation
			73…75	Bright lavender
			76…78	Lavender
			79…81	Sky-blue
			82…84	Simple blue
			85…87	Dark yellow-green
			88…90	Spring-yellow
			91…93	Bright amber
			94…96	Straw
			97…99	Intense amber
			100…102	Orange
			103…105	Bright pink
			106…108	English rose
			109…111	Bright salmon-coloured
			112…114	Mid pink
			115…117	Dark pink
			118…120	Magenta
			121…123	Peacock blue
			124…126	Mid blue-green
			127…129	Steel-blue
			130…132	Light blue
			133…135	Dark blue
			136…138	Leaf green
			139…141	Dark green

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Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 chan-nels)	Value	Function
			142…144	Mauve
			145…147	Mid pink
			151…153	Intense golden-amber
			154…156	Pale lavender
			157…159	Special lavender
			160…162	Pale gold
			163…165	Deep orange
			166…168	Normal amber
			169…171	Flame-red
			172…174	Daylight-blue
			175…177	Lilac
			178…180	Intense lavender
			181…183	Dark steel-blue
			184…186	Congo-blue
			187…189	Bright azure
			190…192	Dark white
			193…195	White
			196…198	Rainbow 1
			199…201	Rainbow 2
			202…204	Rainbow 3
			205…207	Rainbow 4
			208…210	Rainbow 5
			211…213	Rainbow 6
			214…216	Rainbow 7
			217…219	Rainbow 8
			220…222	Rainbow 9
			223…225	Rainbow 10
			226…228	Rainbow 11
			229…231	Rainbow 12
			232…234	Rainbow 13
			235…237	Rainbow 14

Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
			238…240	Rainbow 15
			241…243	Rainbow 16
			244…246	Rainbow 17
			247…249	Rainbow 18
			250…252	Rainbow 19
			253…255	Rainbow 20
7	7	7		Strobe effect
			0…31	No strobe effect, LED off
			32…63	No strobe effect, LED on
			64…95	Strobe effect, increasing speed
			96…127	No strobe effect, LED on
			128…159	Pulse effect in individual sequences
			160…191	No strobe effect, LED on
			192…223	Strobe effect, random speed
			224…255	No strobe effect, LED on
8	8	8	0…255	Dimmer (0 % to 100 %)
9	9	9	0…255	Rotation (pan) (0° to 540°)
10	10	10	0…255	Fine adjustment for rotation (pan)
11	11	11	0…255	Inclination (tilt) (0° to 200°)
12	12	12	0…255	Fine adjustment for inclination (tilt)
13	13	13	0…225	Speed of rotation (pan) and inclination (tilt), fast to slow
			226…235	Blackout during pan and tilt movement
			236…255	Without function
14	14	14		Dimmer curve
			0…9	Standard value, gamma = 2
			10…19	Gamma = 1, dimmer curve 1
			20…29	Gamma = 2, dimmer curve 2
			30…39	Gamma = 3, dimmer curve 3
			40…49	Gamma = 4, dimmer curve 4
			50…255	Without function
15	15	15	0…255	Reset

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Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
16	16	16	0…255	Zoom, 4° to 50°
17	17	17	0…255	Rotation of zoom unit
18	–	18	Pattern selection	
			0…9	Without function
			13…10	Pattern 1 (unicoloured, static)
			14…17	Pattern 2 (unicoloured, static)
			18…21	Pattern 3 (unicoloured, static)
			22…25	Pattern 4 (unicoloured, static)
			26…29	Pattern 5 (unicoloured, static)
			30…33	Pattern 6 (unicoloured, static)
			34…37	Pattern 7 (unicoloured, static)
			38…41	Pattern 8 (unicoloured, static)
			42…45	Pattern 9 (unicoloured, static)
			46…49	Pattern 10 (unicoloured, static)
			50…53	Pattern 11 (unicoloured, static)
			54…57	Pattern 12 (unicoloured, static)
			58…61	Pattern 13 (unicoloured, static)
			62…65	Pattern 14 (unicoloured, static)
			66…69	Pattern 15 (unicoloured, static)
			70…73	Pattern 16 (unicoloured, static)
			74…77	Pattern 17 (unicoloured, static)
			78…81	Pattern 18 (unicoloured, static)
			82…85	Pattern 19 (unicoloured, static)
			86…89	Pattern 20 (unicoloured, static)
			90…93	Pattern 21 (unicoloured, static)
			94…97	Pattern 22 (unicoloured, static)
			98…101	Pattern 23 (unicoloured, static)
			102…105	Pattern 24 (unicoloured, static)
			106…109	Pattern 25 (unicoloured, dynamic)
			110…113	Pattern 26 (unicoloured, dynamic)
			114…117	Pattern 27 (unicoloured, dynamic)

Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
			118…121	Pattern 28 (unicoloured, dynamic)
			122…125	Pattern 29 (unicoloured, dynamic)
			126…129	Pattern 30 (unicoloured, dynamic)
			130…133	Pattern 31 (unicoloured, dynamic)
			134…137	Pattern 32 (unicoloured, dynamic)
			138…141	Pattern 33 (unicoloured, dynamic)
			142…145	Pattern 34 (unicoloured, dynamic)
			146…149	Pattern 35 (unicoloured, dynamic)
			150…153	Pattern 36 (unicoloured, dynamic)
			154…157	Pattern 37 (unicoloured, dynamic)
			158…161	Pattern 38 (unicoloured, dynamic)
			162…165	Pattern 39 (unicoloured, dynamic)
			166…169	Pattern 40 (multicoloured, dynamic)
			170…173	Pattern 41 (multicoloured, dynamic)
			174…177	Pattern 42 (multicoloured, dynamic)
			178…181	Pattern 43 (multicoloured, dynamic)
			182…185	Pattern 44 (multicoloured, dynamic)
			186…189	Pattern 45 (multicoloured, dynamic)
			190…193	Pattern 46 (multicoloured, dynamic)
			194…197	Pattern 47 (multicoloured, dynamic)
			198…201	Pattern 48 (multicoloured, dynamic)
			202…205	Pattern 49 (multicoloured, dynamic)
			206…209	Pattern 50 (multicoloured, dynamic)
			210…213	Pattern 51 (multicoloured, dynamic)
			214…217	Pattern 52 (multicoloured, dynamic)
			218…221	Pattern 53 (multicoloured, dynamic)
			222…225	Pattern 54 (multicoloured, dynamic)
			226…255	Pattern 55 (random)
19	–	19	0…255	Pattern speed
20	–	20	0…255	Pattern fade out
21	–	21	0…255	Intensity red (0 % to 100 %) of the pattern

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Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
22	–	22	0…255	Intensity green (0 % to 100 %) of the pattern
23	–	23	0…255	Intensity blue (0 % to 100 %) of the pattern
24	–	24	0…255	Intensity white (0 % to 100 %) of the pattern
25	–	25	0…255	Pattern brightness
26	–	26	0…255	Background brightness
–	18	27	0…255	Intensity red (0 % to 100 %), LED 1
–	19	28	0…255	Intensity green (0 % to 100 %), LED 1
–	20	29	0…255	Intensity blue (0 % to 100 %), LED 1
–	21	30	0…255	Intensity white (0 % to 100 %), LED 1
–	22	31	0…255	Intensity red (0 % to 100 %), LED 2
–	23	32	0…255	Intensity green (0 % to 100 %), LED 2
–	24	33	0…255	Intensity blue (0 % to 100 %), LED 2
–	25	34	0…255	Intensity white (0 % to 100 %), LED 2
–	26	35	0…255	Intensity red (0 % to 100 %), LED 3
–	27	36	0…255	Intensity green (0 % to 100 %), LED 3
–	28	37	0…255	Intensity blue (0 % to 100 %), LED 3
–	29	38	0…255	Intensity white (0 % to 100 %), LED 3
–	30	39	0…255	Intensity red (0 % to 100 %), LED 4
–	31	40	0…255	Intensity green (0 % to 100 %), LED 4
–	32	41	0…255	Intensity blue (0 % to 100 %), LED 4
–	33	42	0…255	Intensity white (0 % to 100 %), LED 4
–	34	43	0…255	Intensity red (0 % to 100 %), LED 5
–	35	44	0…255	Intensity green (0 % to 100 %), LED 5
–	36	45	0…255	Intensity blue (0 % to 100 %), LED 5
–	37	46	0…255	Intensity white (0 % to 100 %), LED 5
–	38	47	0…255	Intensity red (0 % to 100 %), LED 6
–	39	48	0…255	Intensity green (0 % to 100 %), LED 6
–	40	49	0…255	Intensity blue (0 % to 100 %), LED 6
–	41	50	0…255	Intensity white (0 % to 100 %), LED 6
–	42	51	0…255	Intensity red (0 % to 100 %), LED 7
–	43	52	0…255	Intensity green (0 % to 100 %), LED 7

Standard (26 channels)	Extended RGBW (45 channels)	Extended (54 channels)	Value	Function
–	44	53	0…255	Intensity blue (0 % to 100 %), LED 7
–	45	54	0…255	Intensity white (0 % to 100 %), LED 7

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8   Technical specifications
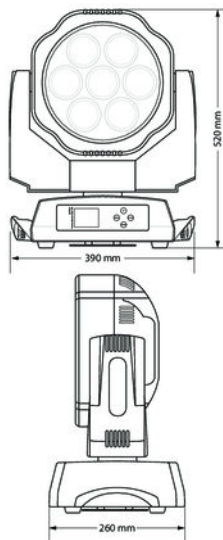
Number of DMX channels	26, 45 or 54, depending on operating mode
Illuminant	7 × 60 W COB RGBW LEDs
Maximum rotation angle (pan)	540°
Maximum inclination angle (tilt)	270°
Operating supply voltage	100 – 240 V ∿ 50/60 Hz
Fuse	5 mm × 20 mm, 10 A, 250 V, slow-blow
Power consumption	600 W
Dimensions (W × H × D)	390 mm × 520 mm × 260 mm
Weight	21 kg

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

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')

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+)

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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, the fan does not run	Check the mains connection and the main fuse.
No response to the DMX controller	1. In the top line of the display the status of the data transmission is indicated by a coloured dot behind the word *'Dmx'*. A green dot indicates that data is being received. A red dot indicates a missing or disturbed connection.
	2. If a green dot appears in the display but there is still no response, check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

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

11 Cleaning

Optical lenses

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

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

Fan grids

The fan grids of the device must be cleaned on a regular basis to remove dust and dirt. Before cleaning, switch off the device and disconnect AC-powered devices from the mains. Use a lint-free damp cloth for cleaning. Never use solvents or alcohol for cleaning.

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12 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

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

Disposal of your old device

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