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WAL-L Z150 COB RGBW

User manual

LED outdoor PAR

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WAL-L Z150

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

Text input

Text inputs that are carried out on the device are indicated by typewriter font.

Example: `2323`

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 – suspended load.
	Warning – danger zone.

2 Safety

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 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 life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.

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

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.

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. The current consumption of all serially connected other devices must not exceed the values indicated in the technical specifications, otherwise you risk injuries and irreparable damages of the device.

Connect just so many devices to the output socket that the maximum current consumption is not exceeded.

Ensure the correct dimensioning (wire cross section) of the used power cords of all serially connected devices.

3 Features

Thanks to flicker-free and noiseless operation, the Outdoor LED PAR with motorized zoom is ideal for professional lighting tasks for theatre and television.

Special features of the device:

- 1 × 4in1 RGBW COB LED, 150 W
- Control via DMX (3 modes) as well as via touch-sensitive buttons on the unit
- Selectable static colours and colour change programmes
- Three selectable fan modes to adapt to the respective application
- Adjustable LED refresh rate from 1000 Hz to 12.000 Hz for flicker-free television pictures
- Master / Slave operation
- Bracket with foldable feet for standing and hanging installation
- Protection class IP65

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 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.

NOTICE!

Possible damage due to moisture

Moisture entering into open connectors (plugs and couplers) of DMX or power cords can cause short circuits.

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

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 of the bracket provided for mounting.

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.

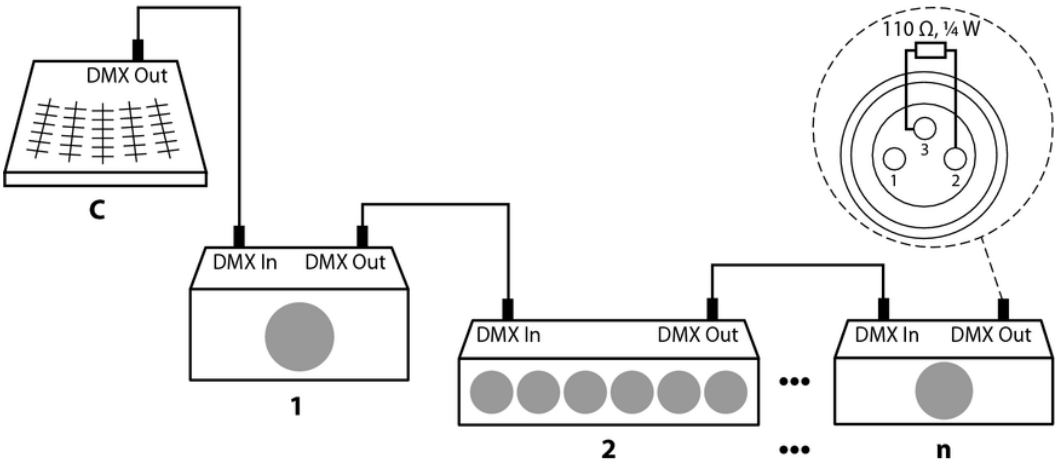
Please note that this device must not be connected to a dimmer.

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

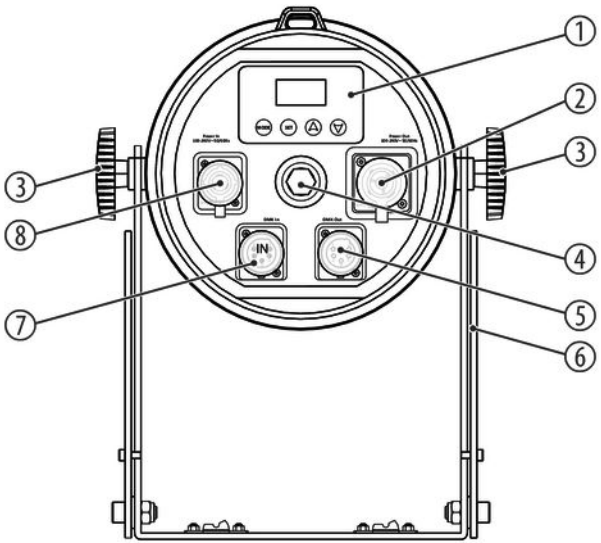
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 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 keypad
	[MODE] Activates the main menu, toggles between the menu levels or closes a submenu.
	▼ Decreases the displayed value by one.
	▲ Increases the displayed value by one.
	[SET] Confirms a value.
2	*[Power Out]* Lockable output socket (Power Twist TR1 IP65) for powering further devices
3	Locking screws for the bracket
4	Pressure compensation element

5	*[DMX Out]* DMX output, designed as 5-pin XLR panel socket (IP65)
6	Folding bracket for hanging or floor setup
7	*[DMX In]* DMX input, designed as 5-pin XLR panel plug (IP65)
8	*[Power In]* Lockable input socket (Power Twist TR1 IP65) for the power supply of the device

7 Operating

7.1 Starting the device

Connect the device to the power supply to start operation. The currently set operating mode, version and temperature are displayed. The device is operational.

If no button is pressed within 30 seconds, the screen is automatically locked. To lock the screen manually, press *[MODE]* and *[SET]* simultaneously for 3 seconds.

7.2 Operating on the unit

Navigating in the menu

1. Press *[MODE]* to activate the main menu.
2. Use ▲ or ▼ to select the desired parameter or to change the respectively displayed value. To apply settings and changed values, press *[SET]*.

3. Press again *[MODE]* to call up further menu items.
4. To activate the respectively shown menu item, press *[SET]*.
5. To return to the previous menu level without change, press *[MODE]*.

Setting the DMX address

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'DMX'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Address'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select a value between *'001'* and *'512'*. Confirm with *[SET]*.

This setting is only relevant when the device is controlled via DMX. 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	Display	Highest possible DMX address
5-channel	*'5-CH'*	508
7-channel	*'7-CH'*	506
10-channel	*'10-CH'*	503

Setting the DMX mode

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'DMX'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Channels'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the desired DMX mode (5, 7 or 10 channels). Depending on the selected mode, the display shows *'5-CH'*, *'7-CH'* or *'10-CH'*. Confirm with *[SET]*.

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

Activating Slave mode

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Slave'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Yes'*. Confirm with *[SET]*.
   ⇨ The device is now working in slave mode, i.e. it will exactly copy the movement of the controlling master device, correct wiring provided.
3. To deactivate slave mode, select *'No'*. Confirm with *[SET]*.

This setting is only relevant if the device is not controlled via DMX.

Activating automatic programme sequence

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'AUTO'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Yes'*. Confirm with *[SET]*.
   ⇨ Automatic programme sequence is activated. Automatic programmes 2 to 17 run with the preset settings.
3. To deactivate automatic programme sequence, select *'No'*. Confirm with *[SET]*.

Selecting an automatic programme

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Program'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select one of the 17 automatic programmes (display shows *'Mode:01'* to *'Mode:17'*).
3. Press *[SET]* to accept the selection.

Configuring an automatic programme: Static colour

This setting can only be made for the automatic programme *'Mode:01'*.

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Program'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Color'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select a value between *'01'* and *'39'* to set the static colour.
4. Press *[SET]* to accept the selection.

Configuring an automatic programme: Running speed

This setting can only be made for the automatic programmes *'Mode:02'* bis *'Mode:17'*.

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Program'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Speed'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select a value between *'001'* (slow) and *'100'* (fast) to set the speed of the programme sequence.
4. Press *[SET]* to accept the selection.

Configuring an automatic programme: Strobe effect

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Program'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Strobe'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select a value between *'00'* (strobe effect off) and *'99'* (fast strobe effect) to adjust the strobe effect.
4. Press *[SET]* to accept the selection.

Setting the dimmer

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Dimmer'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the colour whose intensity you want to adjust (display shows *'Red'*, *'Green'*, *'Blue'*, and *'White'*). Confirm with *[SET]*.
3. Use ▲ or ▼ to select a value between *'000'* (LED off) and *'255'* (full brightness) to adjust the brightness of the LED.
4. Press *[SET]* to accept the selection.

Setting zoom

This setting can only be made for the dimmer mode and the automatic programme *'Mode:01'*.

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Zoom'*. Confirm with *[SET]*.

2. Use ▲ or ▼ to select a value between *'000'* (narrow beam angle off) and *'255'* (wide beam angle) to adjust the zoom factor.

3. Press *[SET]* to accept the selection.

Selecting the dimmer curve

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Curves Select'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the desired dimmer curve. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Curves Select'	*' linear'*	Linear course
	'Square Law'	Exponential course
	'Inv Square Law'	Logarithmic course
	'S-Type'	S-curve shaped course

4. Press *[SET]* to accept the selection.

Selecting the dimmer response

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Dimmer Speed'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the desired setting for the dimmer response. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Dimmer Speed'	*'Fast'*	Fast dimming
	'Smooth'	Slow dimming

4. Press *[SET]* to accept the selection.

Setting the behaviour on DMX control failure

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'DMX Fail'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the device behaviour on DMX signal failure. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Dmx Fail'	*'Off'*	If the DMX control fails, the device is blacked out.
	'Hold'	If the DMX control fails, the last setting is retained.
	'Dimmer'	If the DMX control fails, the device turns to dimmer mode.
	'Program'	If the DMX control fails, the automatic programme sequence is activated.

4. Press *[SET]* to accept the selection.

Activating / deactivating DMX synchronization

With DMX synchronization you can synchronize the settings of the device with those of other DMX-controlled devices.

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Dmx Sync'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select *'On'* in order to activate DMX synchronization. Confirm with *[SET]*.
4. Use ▲ or ▼ to select *'Off'* in order to deactivate DMX synchronization. Confirm with *[SET]*.

Activating and deactivating key lock

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Lock'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select *'On'* in order to activate the key lock. Confirm with *[SET]*.
4. Use ▲ or ▼ to select *'Off'* in order to deactivate the key lock. Confirm with *[SET]*.

Activating / deactivating button illumination

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Key Backlight'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select *'On'* in order to activate the button illumination. Confirm with *[SET]*.
4. Use ▲ or ▼ to select *'Off'* in order to deactivate the button illumination. Confirm with *[SET]*.

Setting fan mode

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Fan Mode'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the desired fan mode. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Fan Mode'	*'Smart'*	The fan speed is controlled automatically by the device temperature.
	'Silent'	Fan off (silent mode). The device temperature is controlled by reducing the power consumption.
	'Max'	Maximum fan speed.

4. Press *[SET]* to accept the selection.

Rotating the Display

1. Press *[MODE]* and then ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with *[SET]*.
2. Press ▲ or ▼ repeatedly until the display shows *'Display'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the desired display orientation. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Display'	*'Normal'*	The display is not inverted.
	'Inverted'	The display is inverted by 180°.

4. Press *[SET]* to accept the selection.

LED repetition rate (PWM)

1. Press *[MODE]* and then ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with *[SET]*.
2. Press ▲ or ▼ repeatedly until the display shows *'PWM Frequency'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the value for the LED repetition rate. The following table shows the available options.

Menu level 2	Menu level 3	Function
'PWM frequency'	*'12K'*	PWM 12 kHz
	'6K'	PWM 6 kHz
	'3K'	PWM 3 kHz
	'1K'	PWM 1 kHz

4. Press *[SET]* to accept the selection.

Calibrating colours

1. Press *[MODE]* and then ▲ or ▼ repeatedly until the display shows *'Settings'*. Confirm with *[SET]*.
2. Press ▲ or ▼ repeatedly until the display shows *'Calibration'*. Confirm with *[SET]*.
3. Enter the password `088`. Confirm with *[SET]*.
4. Use ▲ or ▼ to select the desired submenu or the desired value. The following table shows the available options.

Menu level 2	Menu level 3	Menu level 4	Function
'Calibration'	*'Dimmer Fine'*	*'Red Fine 000'* … *'255'*	Dimmer fine adjustment for red
		'Green Fine 000' … *'255'*	Dimmer fine adjustment for green
		'Blue Fine 000' … *'255'*	Dimmer fine adjustment for blue
		'White Fine 000' … *'255'*	Dimmer fine adjustment for white

Menu level 2	Menu level 3	Menu level 4	Function
	'White Balance'	*'Red Bal 000'* … *'255'*	White balance for red
		'Green Bal 000' … *'255'*	White balance for green
		'Blue Bal 000' … *'255'*	White balance for blue
		'White Bal 000' … *'255'*	White balance for white
	'Zoom Fine'	*'000'* … *'255'*	Zoom fine adjustment
	'Default'	*'Yes'*	Restoring standard colour calibration
		'No'	Retaining the colour calibration done

5. Press *[SET]* to accept the selection.

Resetting the device to factory defaults

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Settings'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Factory'*. Confirm with *[SET]*.
3. Use ▲ or ▼ to select the menu item *'Yes'* to reset the device to factory defaults
   or
   select the menu item *'NO'* to retain the stored settings.
4. Press *[SET]* to accept the selection.

Display of software version and device temperature

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Information'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'Version'*. Confirm with *[SET]*.
   ⇨ The current software version and the current device temperature are shown in the display.
3. Press *[MODE]* to close the menu.

Operating hours display

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Information'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'PowerTime'*. Confirm with *[SET]*.
   ⇨ The display shows the time that the device was connected to the power supply.
3. Press *[MODE]* to close the menu.

LED runtime display

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Information'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'LED Time'*. Confirm with *[SET]*.
   ⇨ The display shows the run time of the LED.
3. Press *[MODE]* to close the menu.

RDM function

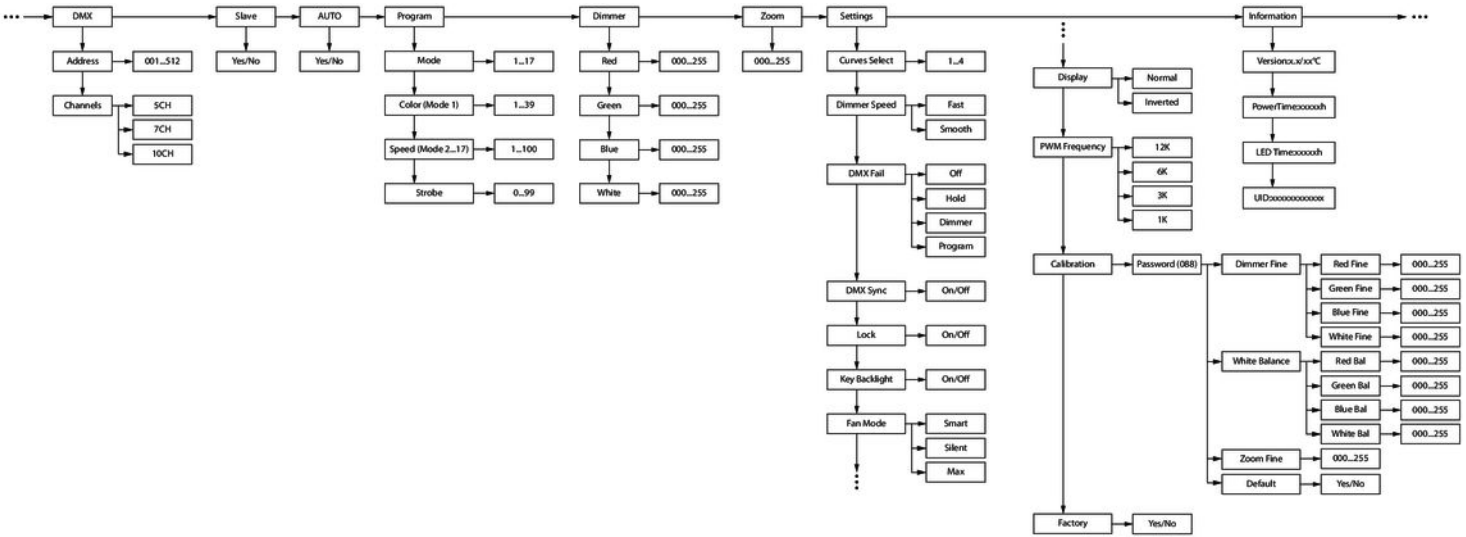
This device has an RDM function and supports the DMX512 standard. Any device with RDM can be recognized by the built-in UID code.

1. Press *[MODE]* and use ▲ or ▼ to select the menu item *'Information'*. Confirm with *[SET]*.
2. Use ▲ or ▼ to select the menu item *'UID'*. Confirm with *[SET]*.
   ⇨ The display shows the UID code.
3. Press *[MODE]* to close the menu.

Parameter ID	Recognition command	Sent Command	Received Command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*

Parameter ID	Recognition command	Sent Command	Received Command
IDENTIFY_DEVICE		*	*
SUPPORTED_PARAMETERS			*
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
RESET_DEVICE		*	
FACTORY_DEFAULTS		*	

7.3 Menu overview



7.4 Functions in 5-channel DMX mode

Channel	Value	Function
1	000…255	Intensity red (0 % to 100 %)
2	000…255	Intensity green (0 % to 100 %)
3	000…255	Intensity blue (0 % to 100 %)
4	000…255	Intensity white (0 % to 100 %)
5	000…255	Zoom from 0 to 100 %

7.5 Functions in 7-channel DMX mode

Channel	Value	Function
1	000…255	Master dimmer (0 % to 100 %)
2	000…255	Intensity red (0 % to 100 %)

Channel	Value	Function
3	000…255	Intensity green (0 % to 100 %)
4	000…255	Intensity blue (0 % to 100 %)
5	000…255	Intensity white (0 % to 100 %)
6	Strobe effect	
	000…010	open
	011…255	Strobe with increasing frequency
7	000…255	Zoom from 0 to 100 %

7.6 Functions in 10-channel DMX mode

Channel	Value	Function
1	000…255	Master dimmer (0 % to 100 %)
2	000…255	Intensity red (0 % to 100 %)
3	000…255	Intensity green (0 % to 100 %)
4	000…255	Intensity blue (0 % to 100 %)
5	000…255	Intensity white (0 % to 100 %)
6	Preset colour	
	000…015	Without function
	016…021	R(255)G(000)B(000)W(000)
	022…027	R(255)G(015)B(000)W(000)
	028…033	R(255)G(050)B(000)W(000)
	034…039	R(255)G(125)B(000)W(000)

Channel	Value	Function
	040…045	R(255)G(170)B(000)W(000)
	046…051	R(255)G(210)B(000)W(000)
	052…057	R(255)G(255)B(000)W(000)
	058…063	R(200)G(255)B(000)W(000)
	064…069	R(160)G(255)B(000)W(000)
	070…075	R(110)G(255)B(000)W(000)
	076…081	R(070)G(255)B(000)W(000)
	082…087	R(000)G(255)B(000)W(000)
	088…093	R(000)G(255)B(010)W(000)
	094…099	R(000)G(255)B(025)W(000)
	100…105	R(000)G(255)B(040)W(000)
	106…111	R(000)G(255)B(070)W(000)
	112…117	R(000)G(255)B(120)W(000)

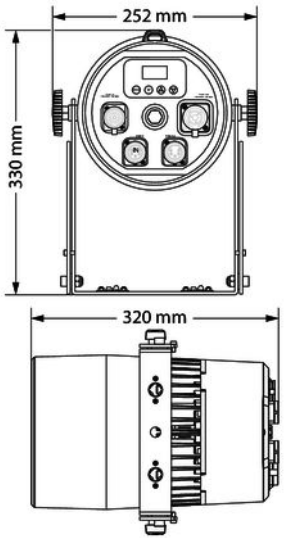
Channel	Value	Function
	118…123	R(000)G(255)B(255)W(000)
	124…129	R(000)G(100)B(255)W(000)
	130…135	R(000)G(000)B(255)W(000)
	136…141	R(020)G(000)B(255)W(000)
	142…147	R(050)G(000)B(255)W(000)
	148…153	R(080)G(000)B(255)W(000)
	154…159	R(130)G(000)B(255)W(000)
	160…165	R(180)G(000)B(255)W(000)
	166…171	R(225)G(000)B(255)W(000)
	172…177	R(255)G(000)B(255)W(000)
	178…183	R(255)G(000)B(220)W(000)
	184…189	R(255)G(000)B(070)W(000)
	190…195	R(255)G(000)B(020)W(000)

Channel	Value	Function
	196…201	R(255)G(000)B(007)W(000)
	202…207	R(000)G(000)B(000)W(255)
	208…213	R(255)G(000)B(000)W(255)
	214…219	R(125)G(000)B(000)W(255)
	220…225	R(000)G(255)B(000)W(255)
	226…231	R(000)G(120)B(000)W(255)
	232…237	R(000)G(000)B(255)W(255)
	238…243	R(000)G(000)B(100)W(255)
	244…255	R(000)G(000)B(050)W(255)
7	Programmes	
	000…015	Without function
	016…030	Programme 2
	031…045	Programme 3

Channel	Value	Function
	046…060	Programme 4
	061…075	Programme 5
	076…090	Programme 6
	091…105	Programme 7
	106…120	Programme 8
	121…135	Programme 9
	136…150	Programme 10
	151…165	Programme 11
	166…180	Programme 12
	181…195	Programme 13
	196…210	Programme 14
	211…225	Programme 15
	226…240	Programme 16

Channel	Value	Function
	241…255	Programme 17
8	000…255	Speed from slow to fast (programmes 2 to 17)
9	Strobe effect	
	000…010	open
	011…255	Strobe with increasing frequency
10	000…255	Zoom from 0 to 100 %

8 Technical specifications



Light source	1 × 4in1 RGBW COB LED (150 W)	
Optical properties	Beam angle	15°…45°, motorized
	Colour temperature	3000 K
Control	DMX	
	RDM	
	Buttons and display on the unit	
Number of DMX channels	5, 7, 10	
Input connections	Voltage supply	Lockable input socket Power Twist TR1 IP65
	DMX control	XLR chassis plug, 5-pin
Output connections	Voltage supply	Lockable output socket Power Twist TR1 IP65 Output current max. 12 A

	DMX control	XLR chassis socket, 5-pin
Power consumption	175 W	
Operating supply voltage	AC 100 – 240 V ~ 50/60 Hz	
Protection class	IP65	
Mounting options	hanging, standing	
Dimensions (W × H × D) with bracket	252 mm × 330 mm × 320 mm	
Weight	5.7 kg	
Ambient conditions	Temperature range	–15 °C…44 °C
	Relative humidity	50 %, non-condensing

Further information

Construction	Outdoor housing
Outdoor housing shape	Cannon
Colour mixture	RGBW
LED type	x-in-1
Floor housing	Yes
Fanless	No
Remote control	Not possible
Wireless DMX	No
Housing colour	black

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!

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.