ignition

WAL-L310 Par,
WAL-L710 Par,
WAL-L710 Par W-DMX

User Manual

LED PAR

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Table of contents

1 General information **6**
1.1 Symbols and signal words 6
2 Safety instructions **9**
3 Features **12**
4 Installation **14**
5 Starting up **18**
6 Connections and controls **20**
7 Operating **24**
7.1 Starting the device 24
7.2 Operation on the device 24
7.3 Menu overview 45
7.4 Functions in 4-channel DMX mode 46
7.5 Functions in 6-channel DMX mode 47
7.6 Functions in 9-channel DMX mode 48
8 Technical specifications **53**
9 Plug and connection assignment **57**
10 Troubleshooting **58**
11 Cleaning **60**

12 Protecting the environment..... 61

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!

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use properly insulated, tripe-core mains cable. Do not modify the mains cable. If the insulation is damaged, immediately switch off the power supply and have it repaired. If in doubt, contact a qualified electrician.

DANGER!

Danger to life due to electric current!

A short circuit could lead to a fire hazard and risk of death. 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 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!

Risk of fire due to covered vents and neighbouring heat sources!

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

NOTICE!

Risk of overheating and risk of fire when operated with closed barn doors!

If the spotlight is operated with the barn doors closed, there is a risk of overheating and fire. In addition, even short-term operation with the barn doors closed can reduce the service life of the LEDs. Operate the device only with open barn doors.

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). 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

Splash-proof LED PAR, ideal for atmospheric illumination for outdoor use, for illumination of buildings and stages.

Special features of the device:

- item no. 474388: 3 × 4in1 LEDs (RGBW, 10 W each)
- Item no. 474390 and 477173: 7 × 4in1 LEDs (RGBW, 10 W each)
- Control via DMX, via RDM as well as via buttons and display on the unit
- Pre-programmed automatic shows
- Custom shows
- Master/slave operation
- International Protection Rating IP65
- Sturdy double bracket for secure attachment to trusses or firm footing on the ground
- Omega bracket with quick-lock fastener

Ignition WAL-L710 Par W-DMX (item no. 477173), also:

- Built-in receiver module for wireless control, compatible with Wireless Solution (G5)
- Barn door, diffusion filter 25° and diffusion filter 40° available as options

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.

Remote Device Management (RDM)

The device supports RDM protocol communication (Remote Device Management) according to ANSI / ESTA E1.20. It can exchange information with an RDM-compatible controller. Also observe the instruction manual of the controller.

Information about protection class IP65

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

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

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

4 Installation

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

WARNING!

Risk of injury 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 unit 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 unit. While you do this, the area underneath the device must be cordoned off.

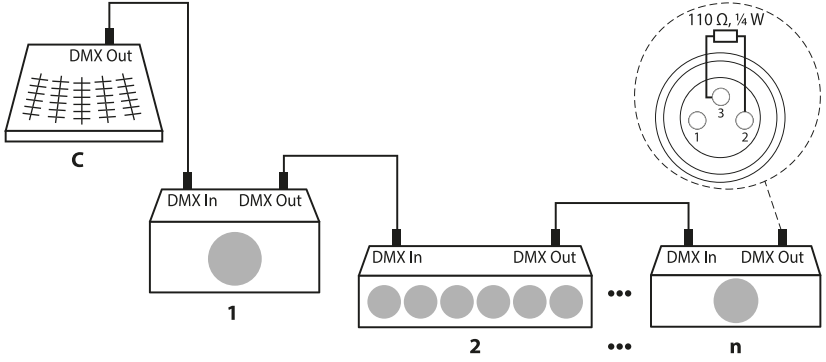
Please note that this device must not be connected to a dimmer.

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).

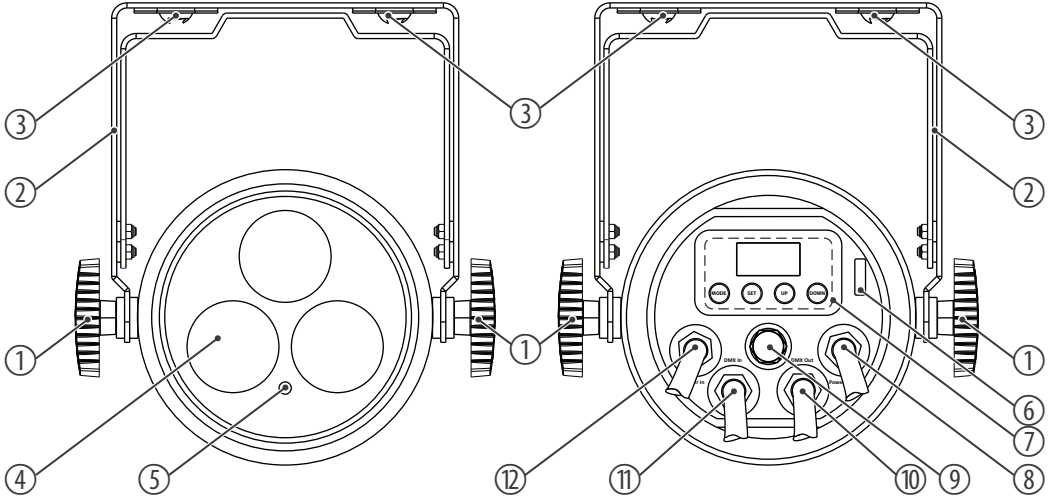


Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the 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.

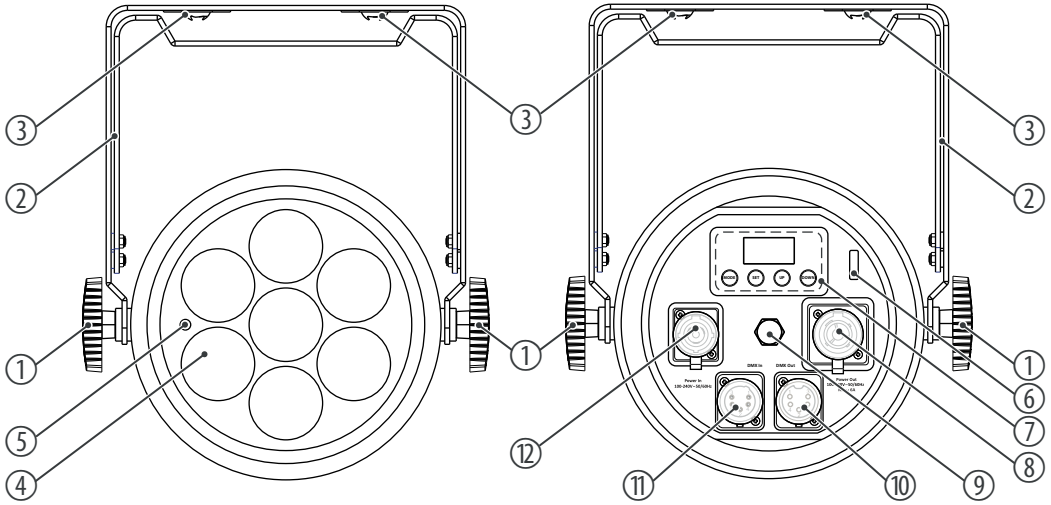
6 Connections and controls

WAL-L310 Par (item no. 474388)



1	Locking screws for the brackets
2	Two-piece bracket for suspension or set-up
3	Omega bracket with quick-lock fastener
4	LED
5	Infrared sensor for optional remote control
6	Safety cable eyelet
7	Display and keypad
	[MODE] | Activates the main menu, toggles between menu levels or closes a submenu.
	[DOWN] | Decreases the displayed value by one.
	[UP] | Increases the displayed value by one.
	[SET] | Confirms a value.
8	*[POWER OUT]* | Power cable with Power Twist TR1 cable connector for the power supply of further devices
9	Pressure equalisation element
10	*[DMX OUT]* | DMX cable with 5-pin XLR connector (IP65)
11	*[DMX IN]* | DMX cable with 5-pin XLR connector (IP65)
12	*[POWER IN]* | Power cable with Power Twist TR1 cable connector for the power supply of the device

**WAL-L710 Par
(item no. 474390),
WAL-L710 Par W-DMX
(item no. 477173)**



1	Locking screws for the brackets
2	Two-piece bracket for suspension or set-up
3	Omega bracket with quick-lock fastener
4	LED
5	Infrared sensor for optional remote control
6	Safety cable eyelet
7	Display and keypad
	[MODE] | Activates the main menu, toggles between menu levels or closes a submenu.
	[DOWN] | Decreases the displayed value by one.
	[UP] | Increases the displayed value by one.
	[SET] | Confirms a value.
8	*[POWER OUT]* | Lockable output socket (Power Twist TR1 IP65) for the power supply of further devices
9	Pressure equalisation element
10	*[DMX OUT]* | DMX output, designed as 5-pin XLR panel coupler (IP65)
11	*[DMX IN]* | DMX input, designed as 5-pin XLR panel plug (IP65)
12	*[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 mains to start operation. The display shows the current operating mode, the version and the temperature. The device is operational.

The display is locked automatically if no button is pressed for 30 seconds. Press *[MODE]* and *[SET]* simultaneously for 3 seconds to lock the display manually.

7.2 Operation on the device

Navigating the menu

1. Press *[MODE]* to activate the main menu.
2. Use *[UP]* or *[DOWN]* to select the required parameter or to change the currently displayed value. Press *[SET]* to apply settings and changed values.
3. Press *[MODE]* again to call up other menu items.
4. Press *[SET]* to activate the currently displayed menu item.
5. Press *[MODE]* to return to the previous menu level without changes.

Setting the DMX address

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'DMX'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Address:'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* 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
4-channel	*'4-CH'*	509
6-channel	*'6-CH'*	507
9-channel	*'9-CH'*	504

Setting the DMX mode

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'DMX'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Channels:'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the required DMX mode (4, 6 or 9 channels). Depending on the selected mode, the display shows *'4-CH'*, *'6-CH'* or *'9-CH'*. Confirm with *[SET]*.

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

Activating W-DMX mode (only available with item no. 477173 Ignition WAL-L710 Par W-DMX)

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'DMX'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Signal:'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the *'W-DMX'* menu item. Confirm with *[SET]*.
4. Select *'DMX'* to deactivate W-DMX mode. Confirm with *[SET]*.

Connecting W-DMX mode (only available with item no. 477173 Ignition WAL-L710 Par W-DMX)

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'DMX'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'W-DMX Unlock:'* menu item to terminate an existing connection to a transmitter and to connect the device to another transmitter. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the *'Yes'* menu item. Confirm with *[SET]*.

   ⇨ The existing connection is terminated.
4. To connect to a transmitter, press *[LINK]* on your transmitter.
5. Use *[UP]* or *[DOWN]* to select the *'No'* menu item to cancel the process. Confirm with *[SET]*.

Activating slave mode

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Slave'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Yes'* menu item. Confirm with *[SET]*.
   ⇨ The device is now running in slave mode, i.e. it will copy the behaviour of the controlling master device exactly if the wiring is correct.
3. Select *'No'* to deactivate slave mode. Confirm with *[SET]*.

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

Activating the automatic programme run

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'AUTO'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Yes'* menu item. Confirm with *[SET]*.
   ⇨ The automatic programme run is enabled. Automatic programmes 2 to 17 run with the predefined settings.
3. To deactivate the automatic programme run, select *'No'*. Confirm with *[SET]*.

Selecting an automatic programme

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

Configuring an automatic programme: Static colour

This setting can only be applied to the *'Mode:01'* automatic programme.

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Program'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Color'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select a value between *'00'* and *'39'* to set a static colour.
4. Press *[SET]* to confirm the selection.

Configuring an automatic programme: Running speed

This setting can only be applied to the *'Mode:02'* to *'Mode:17'* automatic programmes.

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Program'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Speed'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select a value between *'001'* (slow) and *'100'* (fast) to set the running speed.
4. Press *[SET]* to confirm the selection.

Configuring an automatic programme: Strobe effect

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

Activating a custom programme run

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'User Program'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Program'* menu item. Confirm with *[SET]*.

   Use *[UP]* or *[DOWN]* to select a programme between 1 and 5 and confirm with *[SET]*.

   ⇨ The custom programme run is enabled. The selected programme runs with the predefined settings.

Configuring a custom programme run

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'User Program'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Program'* menu item. Confirm with *[SET]*.

   Use *[UP]* or *[DOWN]* to select a programme between 1 and 5 and confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the *'Edit'* menu item to edit the selected programme. Confirm with *[SET]*.
4. Every programme provides ten individual steps which you can edit as desired. The following table shows the available options:

Menu level 2	Menu level 3	Function
'Step'	*'1'… '10'*	Step 1…10
'Red'	*'0'… '255'*	Red intensity
'Green'	*'0'… '255'*	Green intensity
'Blue'	*'0'… '255'*	Blue intensity
'White'	*'0'… '255'*	White intensity
Strobe	*'0'… '99'*	Strobe
Fade Time	*'0'… '20s'*	Fade time to next step
Wait Time	*'0.1'… '40s'*	Step duration

5. Press *[SET]* to confirm the settings and save them for the selected programme.

Sending a custom programme run to devices

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'User Program'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Program'* menu item. Confirm with *[SET]*.

   Use *[UP]* or *[DOWN]* to select a programme between 1 and 5 and confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the *'Send Program'* menu item. Confirm with *[SET]*.
4. Use *[UP]* or *[DOWN]* to select *'Yes'* to transmit the selected programme to the connected devices. Confirm with *[SET]*.
5. Use *[UP]* or *[DOWN]* to select *'No'* to cancel the process. Confirm with *[SET]*.

Setting the dimmer (freely adjustable static colour)

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

Selecting the dimmer curve

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Curves Select'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select a 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 confirm the selection.

Selecting the dimmer response

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Dimmer Speed'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the desired setting for the response characteristic of the dimmer. 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 confirm the selection.

Rotating the display

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Display'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the required display. The following table shows the available options.

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

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

Setting the LED repetition rate (PWM)

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'PWM Frequency'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select a 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 confirm the selection.

Setting the behaviour following DMX control failure

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'DMX Fail'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the desired behaviour if the DMX signal fails. The following table shows the available options.

Menu level 2	Menu level 3	Function
'Dmx Fail'	*'Off'*	If DMX control fails, the device is blacked out.
	'Hold'	If DMX control fails, the most recent setting is retained.
	'Dimmer'	If DMX control fails, the device switches to dimmer mode.
	'Program'	If DMX control fails, the programme most recently selected in *'Program'* mode is enabled.

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

Enabling and disabling DMX synchronisation

DMX synchronisation allows you to synchronise the settings of the device with those of other DMX-controlled devices.

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Dmx Sync'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select *'On'* to enable DMX synchronisation. Confirm with *[SET]*.
4. Use *[UP]* or *[DOWN]* to select *'Off'* to disable DMX synchronisation. Confirm with *[SET]*.

Activating and deactivating key lock

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Lock'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select *'On'* to enable the key lock. Confirm with *[SET]*.
4. Use *[UP]* or *[DOWN]* to select *'Off'* to disable the key lock. Confirm with *[SET]*.

Resetting the device to factory defaults

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Settings'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Factory Reset'* menu item. Confirm with *[SET]*.
3. Use *[UP]* or *[DOWN]* to select the *'Yes'* menu item to reset the device to factory defaults or
   select the *'No'* menu item to maintain the saved settings.
4. Press *[SET]* to confirm the selection.

Displaying the software version and device temperature

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Information'* menu item. Confirm with *[SET]*.
2. Use *[UP]* or *[DOWN]* to select the *'Version'* menu item. Confirm with *[SET]*.
   ⇨ The display shows the current software version and the current device temperature.

> **NOTICE!**
> Turn the device off if the device temperature is outside the permitted range.

3. Press *[MODE]* to close the menu.

Displaying the operating hours

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

Displaying the LED runtime

1. Press *[MODE]* and use *[UP]* or *[DOWN]* to select the *'Information'* menu item. Confirm with *[SET]*.
2. Use *[Up]* or *[Down]* to select the *'LED Time'* menu item. Confirm with *[SET]*.
   ⇨ The display shows the LED runtime.
3. Press *[MODE]* to close the menu.

RDM function

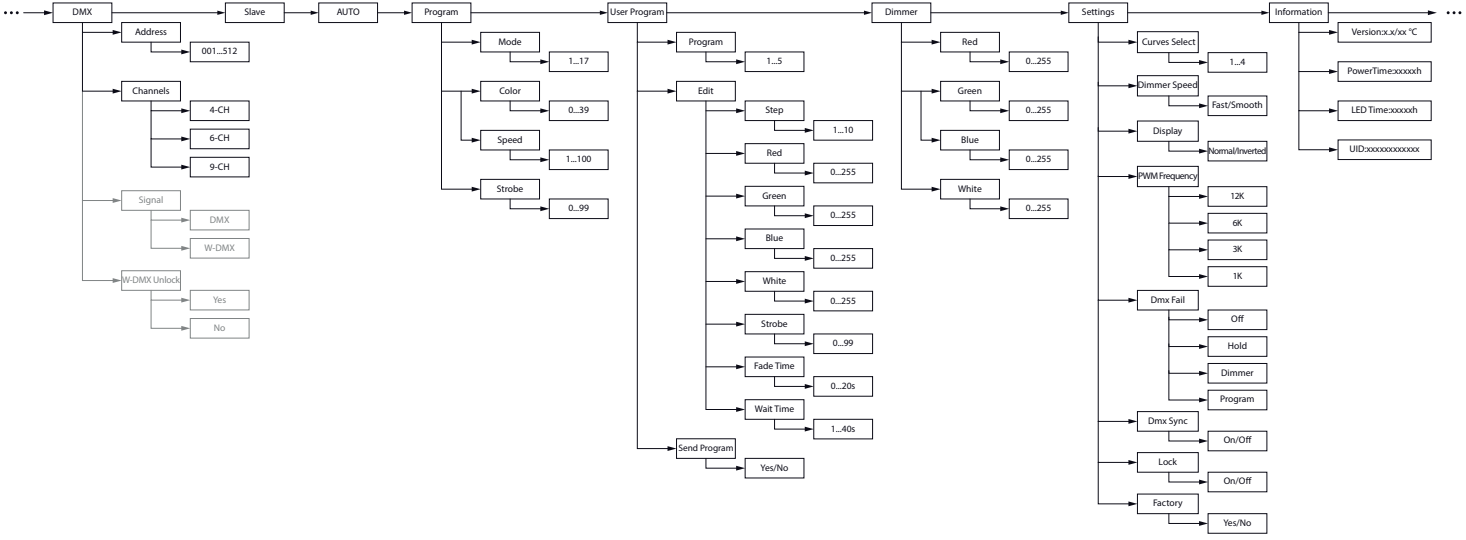
The device features an RDM function and supports the DMX512 standard. Any device with RDM can be recognised from the built-in UID code.

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

Parameter ID	Detection command	Sent command	Received command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
SUPPORTED_PARAMETERS			*

Parameter ID	Detection command	Sent command	Received command
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
RESET_DEVICE		*	
FACTORY_DEFAULTS		*	

7.3 Menu overview



7.4 Functions in 4-channel DMX mode

Channel	Value	Function
1	000…255	Red intensity (0% to 100%)
2	000…255	Green intensity (0% to 100%)
3	000…255	Blue intensity (0% to 100%)
4	000…255	White intensity (0% to 100%)

7.5 Functions in 6-channel DMX mode

Channel	Value	Function
1	000…255	Master dimmer (0% to 100%)
2	000…255	Red intensity (0% to 100%)
3	000…255	Green intensity (0% to 100%)
4	000…255	Blue intensity (0% to 100%)
5	000…255	White intensity (0% to 100%)
6	Strobe effect	
	000…010	Open
	011…255	Strobe with increasing frequency

7.6 Functions in 9-channel DMX mode

Channel	Value	Function
1	000…255	Master dimmer (0% to 100%)
2	000…255	Red intensity (0% to 100%)
3	000…255	Green intensity (0% to 100%)
4	000…255	Blue intensity (0% to 100%)
5	000…255	White intensity (0% to 100%)
6	Predefined colour	
	000…015	No 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)
	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)

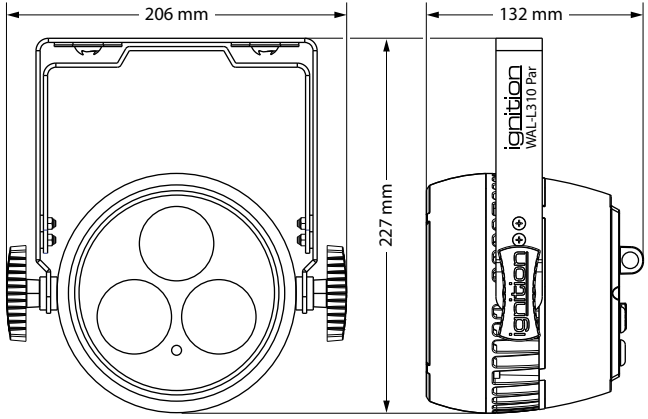
Channel	Value	Function
	058…063	R(200)G(255)B(000)W(000)
	064…069	R(160)G(255)B(000)W(000)
	070…075	R(110)G(255)B(000)W(000)
	076…081	R(070)G(255)B(000)W(000)
	082…087	R(000)G(255)B(000)W(000)
	088…093	R(000)G(255)B(010)W(000)
	094…099	R(000)G(255)B(025)W(000)
	100…105	R(000)G(255)B(040)W(000)
	106…111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

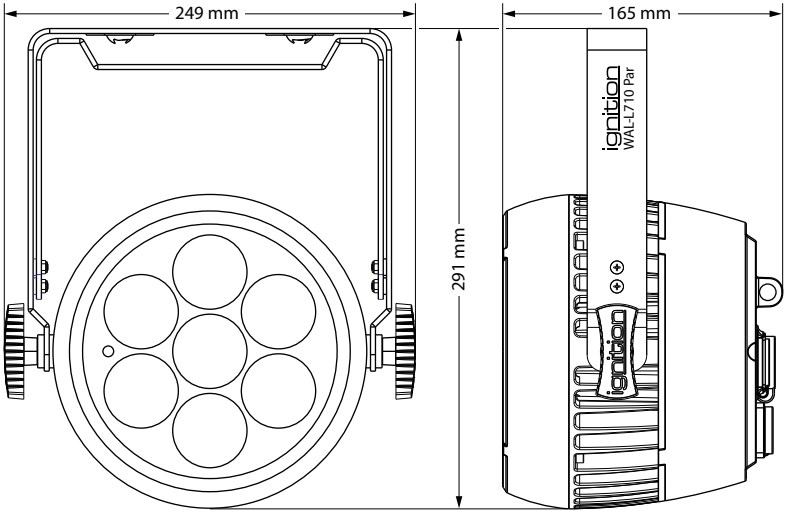
Channel	Value	Function
	154…159	R(130)G(000)B(255)W(000)
	160…165	R(180)G(000)B(255)W(000)
	166…171	R(225)G(000)B(255)W(000)
	172…177	R(255)G(000)B(255)W(000)
	178…183	R(255)G(000)B(220)W(000)
	184…189	R(255)G(000)B(070)W(000)
	190…195	R(255)G(000)B(020)W(000)
	196…201	R(255)G(000)B(007)W(000)
	202…207	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)

Channel	Value	Function
7	Programmes	
	000…015	No function
	016…026	Programme 2
	027…037	Programme 3
	038…048	Programme 4
	049…059	Programme 5
	060…070	Programme 6
	071…081	Programme 7
	082…092	Programme 8
	093…103	Programme 9
	104…114	Programme 10
	115…125	Programme 11
	126…136	Programme 12
	137…147	Programme 13
	148…158	Programme 14
	159…169	Programme 15

Channel	Value	Function
	170…180	Programme 16
	181…191	Programme 17
	192…202	Custom programme 1
	203…213	Custom programme 2
	214…224	Custom programme 3
	225…235	Custom programme 4
	236…255	Custom programme 5
8	000…255	Speed from slow to fast (programmes 2 to 17)
9	Strobe effect	
	000…010	Open
	011…255	Strobe with increasing frequency (not for custom programmes 1…5, channel 7)

8 Technical specifications





Item no.		474388	474390	477173
Light source		3 × 4in1 RBGW LED, 10 W each	7 × 4in1 RBGW LED, 10 W each	7 × 4in1 RBGW LED, 10 W each
Optical properties	Beam angle	10° (without filter)		
	Colour temperature	6500 K		
	Luminous flux	max. 1442 lm	max. 3616 lm	
Control		–	–	W-DMX
		DMX		
		Buttons and display		
Number of DMX channels		4, 6, 9		
Input connections	Power supply	Power cable with Power Twist TR1 cable connector	Lockable Power Twist TR1 IP65 input socket	
	DMX control	DMX cable with 5-pin XLR connector	XLR panel plug (IP65), 5-pin	
Output connections	Power supply for further devices	Power cable with Power Twist TR1 cable connector Output current, max.: 6 A	Lockable Power Twist TR1 IP65 output socket Output current, max.: 6 A	

Item no.		**474388**	**474390**	**477173**
	DMX control	DMX cable with 5-pin XLR connector	XLR panel coupling (IP65), 5-pin	
W-DMX	Frequency range	–	–	2.400 GHz … 2.483 GHz
	Max. transmission power	–	–	20 dBm
Power consumption		30 W	70 W	
Supply voltage		100 - 240 V ~ 50/60 Hz		
International Protection Rating		IP65		
Mounting options		Hanging, standing		
Dimensions (W × H × D)		206 mm × 277 mm × 132 mm	249 mm × 291 mm × 165 mm	
Weight		2.4 kg	4.3 kg	
Ambient conditions	Temperature range	–20 °C…+45 °C		
	Relative humidity	20%…80% (non-condensing)		

Further information

Item no.	474388	474390	477173
Design	Outdoor housing, Flat PAR	Outdoor housing, Flat PAR	Outdoor housing, Flat PAR
Number of LEDs	3	7	7
Colour mix	RGBW	RGBW	RGBW
LED type	x-in-1	x-in-1	x-in-1
Floor housing	Yes	Yes	Yes
Fanless	Yes	Yes	Yes
Wireless DMX	No	No	Yes
Housing colour	Black	Black	Black
Optional accessories	–	Barn door (item no. 477996)	Barn door (item no. 477996)
	Diffusion filter 25° (item no. 476828)	Diffusion filter 25° (item no. 476832)	Diffusion filter 25° (item no. 476832)
	Diffusion filter 40° (item no. 476830)	Diffusion filter 40° (item no. 476831)	Diffusion filter 40° (item no. 476831)

9 Plug and connection assignment

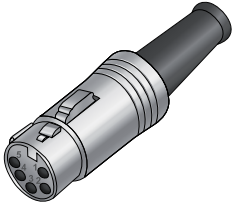
Introduction

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 does not work, 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.

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

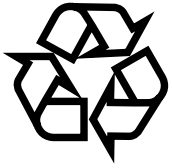
Optical lenses

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.

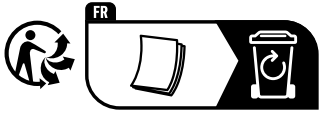
12 Protecting the environment

Disposal of the packing material



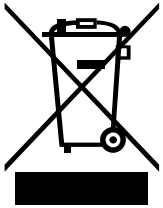
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.