fun generation

LED Pot QCL RGB WW 15°,
LED Pot QCL RGB WW 40°

User Manual

LED PAR

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1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under *www.thomann.de*.

1.1 Symbols and signal words

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

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – dangers due to batteries.
	Warning – high-voltage.
	Warning – dangerous optical radiation.

Warning signs	Type of danger
	Warning – suspended load.
	Warning – danger zone.

2   Safety instructions

Intended use

This device is intended for use as an electronic lighting effect by means of LED technology. The device is designed for professional use only and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

> *Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.*

Safety

DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.

DANGER!

Danger to life due to electric current!

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.

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.

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!

Incorrect handling of lithium batteries can result in injury!

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. Handle lithium batteries in a correct and professional manner. Store lithium batteries in a cool and dry place in their original packaging. Keep lithium batteries away from sources of heat. Never open lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Remove the lithium batteries before disposing of the device. Cover the poles of used lithium batteries with adhesive tape to prevent short circuits. Electrolyte can escape from damaged lithium batteries. Put the damaged lithium battery in air-tight packaging. Collect the electrolyte with absorbent paper. Wear rubber gloves while doing so.

!

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 over-heat 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!

Damage to the device if operated in unsuitable ambient conditions!

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications" chapter of this user manual. Avoid operating it in environments with direct sun-light, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluc-tuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at reg-ular intervals to prevent damage due to overheating and other malfunctions.

!

NOTICE!

Damage to the external power supply due to high voltages!

The device is powered by an external power supply. The external power supply 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 external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the power supply from the power grid when storms are approaching or it the device will not be used for a longer period.

!

NOTICE!

Possible damage to lithium-ion batteries through incorrect storage!

Deep discharge can permanently damage lithium-ion batteries or cause them to lose some of their capacity. Charge the lithium-ion batteries before longer breaks in use and before storage. Ensure that the device is switched off for storage. Store the device at room temperature or cooler in an environment as dry as possible. Recharge the lithium-ion batteries about every three months if they are stored for a longer period of time to avoid permanent damage due to too deep self-discharge. Fully charge the lithium-ion batteries only shortly before use at room temperature.

!

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

!

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device. Take the batteries out of the device if it is not going to be used for an extended period of time.

3   Features

Compact, battery-operated LED spotlight as entry-level wireless ambient lighting

- 12 × QCL LEDs RGB WW (1 watt each)
- Control via DMX, buttons and display on the device as well as via infrared remote control
- 14 pre-programmed automatic shows
- Operating modes:
    - Sound control
    - Automatic mode
    - Programme mode
    - Master/slave
    - DMX
- Compact plastic housing
    - Black (item no. 490457 and 490458)
    - White (item no. 512678)
- Two-part mounting bracket
- Optionally available accessories: Infrared remote control (item no. 354223), carrying bag for four LED spots (item no. 406359)

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

4   Installation

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

WARNING!

Risk of injury from falling devices that were inadequately secured!

If devices are not properly secured during assembly, they can cause severe injury and considerable damage by falling.

When installing and operating, make sure to follow the standards and regulations that apply in your country.

Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

!

NOTICE!

Risk of overheating and fire due to inadequate distance and bad ventilation!

If the distance between the light source and the illuminated surface is too short or the device is badly ventilated, the device can overheat and cause fires.

Make sure that illuminated surfaces are more than 2 m away.

Do not operate the device in ambient temperatures above 40 °C.

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.

Mounting options

You can install the device in hanging or standing positions. When in use, the device must always be attached to a solid surface or an approved mount. Use the openings provided on the two-piece bracket for attaching.
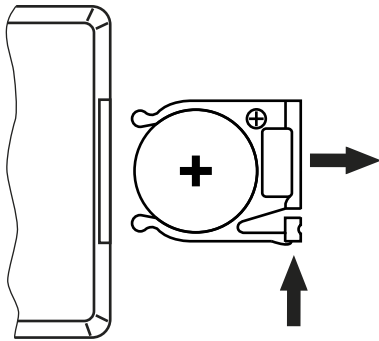
Always work from a stable platform whenever installing, moving or servicing the device. While you do this, the area underneath the device must be cordoned off.

The safety cable must be attached to the bracket.

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

Inserting the battery into the remote control

Push the lock of the battery holder towards the centre of the housing and pull out the battery holder like a drawer. Insert the batteries. The battery is correct if the positive pole points to the housing base of the remote control. Slide the battery holder back into the remote until it clicks into place.

When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic film. Remove the plastic film before initial use.

> **!** **NOTICE!**
> **Risk of fire due to incorrect polarity!**
> Incorrectly inserted batteries may cause fires and destroy the device and the batteries.
> Observe the markings on the batteries and on the device.
> Ensure that proper polarity is observed when inserting batteries.

> **!** **NOTICE!**
> **Possible damage due to leaking batteries!**
> Batteries can leak and cause permanent damage to the device.
> Take the batteries out of the device if it is not going to be used for an extended period of time.

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).
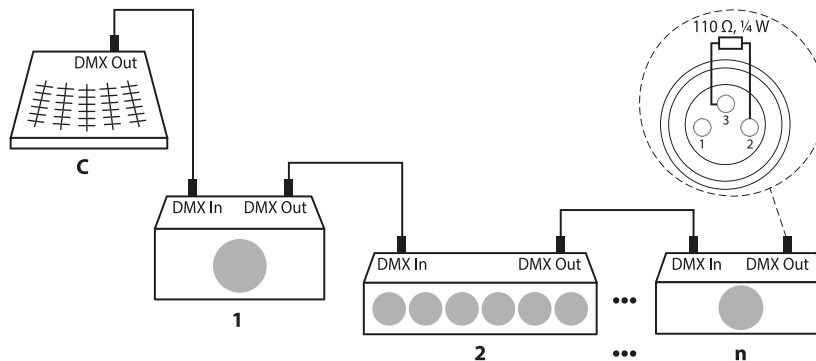
Connections in master/slave mode

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
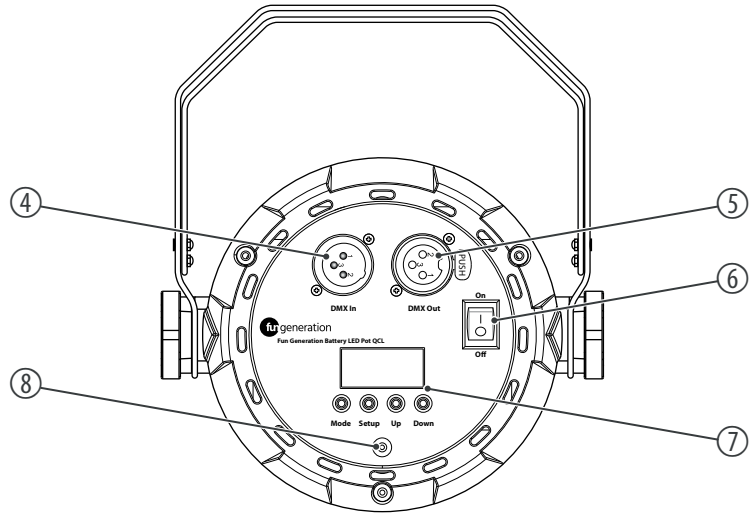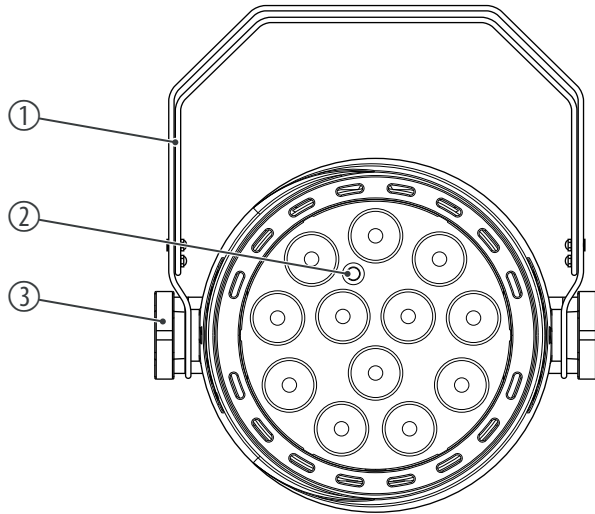
1	Two-part mounting bracket
2	Infrared sensor for receiving signals from an optionally available remote control.
3	Locking screws for the two-piece bracket
4	*[DMX IN]* | DMX input, designed as XLR panel plug
5	*[DMX OUT]* | DMX output, designed as XLR panel socket
6	*[ON / OFF]* | Main switch. Turns the device on and off.
7	Display and function buttons
	[Mode] | Opens the main menu or a submenu.
	[Setup] | Confirms a selected value.
	[Up] | Increases the displayed value by one.
	[Down] | Decreases the displayed value by one.
8	Connection for the external power supply

Infrared remote control (item no. 354223, optionally available)
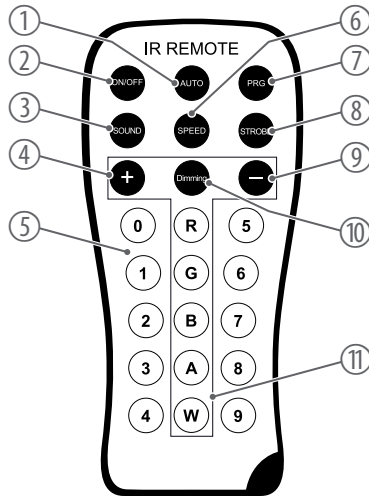
Since the universal remote control can be used for several device types, some buttons may not be assigned and therefore have no function.

1	*[AUTO]* | Activates "Automatic" mode.
2	*[ON/OFF]* | Turns the device on and off.
3	*[SOUND]* | Activates "Sound control" mode. Set the sensitivity of the built-in microphone with *[+]* and *[–]*.
4	*[+]* | Increases the set value.
5	*[0 … 9]* | Number buttons for the direct selection of a fixed colour.
6	*[SPEED]* | Activates the setting mode for the programme speed. Adjust the speed using *[+]* and *[–]*.
7	*[PRG]* | Activates the "Pre-programmed automatic show" mode. Select the required programme with *[+]* and *[–]*.
8	*[STROBE]* | Activates the setting mode for the strobe speed. Adjust the speed using *[+]* and *[–]*.
9	*[–]* | Decreases the set value.
10	*[Dimming]* | Activates the dimming function for fixed colours. Set the value for each fixed colour using *[+]* and *[–]*.
11	*[R]*, *[G]*, *[B]*, *[A]*, *[W]* | Buttons for selecting the colour shade in dimmer mode.

7   Operating

Turn on the power using the main switch. After a few seconds the unit is ready for use.

1. ▶ Press *[Mode]* or *[Up]* | *[Down]* to activate the main menu and select a menu option.

2. ▶ Confirm the selection with *[Setup]*.

3. ▶ Change the currently displayed value with *[Up]* | *[Down]*. Changed values and settings will immediately take effect. Press *[Mode]* to return to the previous menu.

7.1   Operating mode Auto

Automatic operation can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

1. ▶ Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows *'AUTO'*.

2. ▶ Confirm the selection with *[Setup]*.

⇨ The device now operates in automatic stand-alone mode, the programmes *'Pr.02'* … *'Pr.14'* run sequentially at the set programme speed.

7.2   Programme mode

A preprogrammed automatic show can only be activated when the unit is operating in stand-alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

1. ▸ Press *[Mode]* or *[Up] | [Down]* repeatedly until the display shows *'Pro'*.

2. ▸ Confirm the selection with *[Setup]*.

3. ▸ Use *[Up] | [Down]* to select one of the programmes *'Pr.01'* … *'Pr.14'*.

Settings for programme 01

If you have selected programme 01, you can adjust the following settings:

1. ▸ After selecting the programme, press again *[Setup]* and use *[Up] | [Down]* to select one of 39 static colours.

2. ▸ Press again *[Setup]* and adjust the frequency of the strobe effect with *[Up] | [Down]* in a range from *'FS.00'* … *'FS.99'* (slow … fast).

**Settings for
programmes 02 … 14**

When you have selected one of programmes 02 … 14 you can adjust the following settings:

1. ▶ After selecting the programme, press again *[Setup]* and adjust the programme speed with *[Up] | [Down]* in a range from *'SP.01'* … *'SP.FL'* (slow … fast).

2. ▶ Press again *[Setup]* and adjust the frequency of the strobe effect with *[Up] | [Down]* in a range from *'FS.00'* … *'FS.99'* (slow … fast).

7.3 Operating mode DMX

This setting is only relevant if the device is controlled via a DMX controller.

1. ▶ Use *[Mode]* or *[Up]* | *[Down]* to select the menu option *'d---'*.

2. ▶ Confirm the selection with *[Setup]*.

3. ▶ Use *[Up]* | *[Down]* to assign a DMX address in a range from *'d.001'* … *'d.512'*.

4. ▶ Confirm with *[Setup]*.

5. ▶ Press *[Up]* | *[Down]* to select the desired DMX mode:

Mode	Highest possible DMX address
4-channel	509
6-channel	507
8-channel	505

6. ▶ Confirm with *[Setup]*.

7.3.1 Functions in 4-channel DMX mode

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

7.3.2 Functions in 6-channel DMX mode

Channel	Value	Function
1	0 … 255	Dimmer (0 % to 100 %)
2	0 … 255	Intensity red (0 % to 100 %)
3	0 … 255	Intensity green (0 % to 100 %)
4	0 … 255	Intensity blue (0 % to 100 %)
5	0 … 255	Intensity white (0 % to 100 %)
6	0	No function
	1 … 255	Stroboscope effect (0 % to 100 %)

7.3.3 Functions in 8-channel DMX mode

Channel	Value	Function
1	0 … 255	Dimmer (0 % to 100 %)
2	0 … 255	Intensity Red (0 % to 100 %), if channel 6 = 0
3	0 … 255	Intensity Green (0 % to 100 %), if channel 6 = 0
4	0 … 255	Intensity Blue (0 % to 100 %), if channel 6 = 0
5	0 … 255	Intensity White (0 % to 100 %), if channel 6 = 0
6	Programme selection	
	0	No function
	1 … 16	Programme 01
	17 … 33	Programme 02
	34 … 50	Programme 03
	51 … 67	Programme 04
	68 … 84	Programme 05
	85 … 101	Programme 06
	102 … 118	Programme 07

Channel	Value	Function
	119 … 135	Programme 08
	136 … 152	Programme 09
	153 … 169	Programme 10
	170 … 186	Programme 11
	187 … 203	Programme 12
	204 … 220	Programme 13
	221 … 237	Programme 14
	238 … 255	Sound-controlled operation
7	Colour macros programme 01	
	0 … 15	No function
	16 … 21	Red 255 / green 0 / blue 0 / white 0, if channel 6 = 1 … 16
	22 … 27	Red 255 / Green 15 / Blue 0 / White 0, if channel 6 = 1 … 16
	28 … 33	Red 255 / Green 50 / Blue 0 / White 0, if channel 6 = 1 … 16
	34 … 39	Red 255 / green 125 / blue 0 / white 0, if channel 6 = 1 … 16
	40 … 45	Red 255 / green 170 / blue 0 / white 0, if channel 6 = 1 … 16
	46 … 51	Red 255 / green 210 / blue 0 / white 0, if channel 6 = 1 … 16

Channel	Value	Function
	52 … 57	Red 255 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	58 … 63	Red 200 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	64 … 69	Red 160 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	70 … 75	Red 110 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	76 … 81	Red 70 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	82 … 87	Red 0 / green 255 / blue 0 / white 0, if channel 6 = 1 … 16
	88 … 93	Red 0 / green 255 / blue 10 / white 0, if channel 6 = 1 … 16
	94 … 99	Red 0 / green 255 / blue 25 / white 0, if channel 6 = 1 … 16
	100 … 105	Red 0 / green 255 / blue 40 / white 0, if channel 6 = 1 … 16
	106 … 111	Red 0 / green 255 / blue 70 / white 0, if channel 6 = 1 … 16
	112 … 117	Red 0 / green 255 / blue 120 / white 0, if channel 6 = 1 … 16
	118 … 123	Red 0 / green 255 / blue 255 / white 0, if channel 6 = 1 … 16
	124 … 129	Red 0 / green 100 / blue 255 / white 0, if channel 6 = 1 … 16
	130 … 135	Red 0 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	136 … 141	Red 20 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	142 … 147	Red 50 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16

Channel	Value	Function
	148 … 153	Red 80 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	154 … 159	Red 130 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	160 … 165	Red 180 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	166 … 171	Red 225 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	172 … 177	Red 255 / green 0 / blue 255 / white 0, if channel 6 = 1 … 16
	178 … 183	Red 255 / green 0 / blue 220 / white 0, if channel 6 = 1 … 16
	184 … 189	Red 255 / green 0 / blue 70 / white 0, if channel 6 = 1 … 16
	190 … 195	Red 255 / green 0 / blue 20 / white 0, if channel 6 = 1 … 16
	196 … 201	Red 255 / green 0 / blue 7 / white 0, if channel 6 = 1 … 16
	202 … 207	Red 0 / green 0 / blue 0 / white 255, if channel 6 = 1 … 16
	208 … 213	Red 255 / green 0 / blue 0 / white 255, if channel 6 = 1 … 16
	214 … 219	Red 125 / green 0 / blue 0 / white 255, if channel 6 = 1 … 16
	220 … 225	Red 0 / green 255 / blue 0 / white 255, if channel 6 = 1 … 16
	226 … 231	Red 0 / green 120 / blue 0 / white 255, if channel 6 = 1 … 16
	232 … 237	Red 0 / green 0 / blue 255 / white 255, if channel 6 = 1 … 16
	238 … 243	Red 0 / green 0 / blue 100 / white 255, if channel 6 = 1 … 16

Channel	Value	Function
	244 … 255	Red 0 / green 0 / blue 50 / white 255, if channel 6 = 1 … 16
	Running speed programme 02 … 14	
	0 … 255	Speed increasing (0 % bis 100 %), if channel 6 = 17 … 237
	Microphone sensitivity Programme 02 … 14	
	0 … 21	Mode 01, if channel 6 = 238 … 255
	22 … 43	Mode 02, if channel 6 = 238 … 255
	44 … 65	Mode 03, if channel 6 = 238 … 255
	66 … 87	Mode 04, if channel 6 = 238 … 255
	88 … 109	Mode 05, if channel 6 = 238 … 255
	110 … 131	Mode 06, if channel 6 = 238 … 255
	132 … 153	Mode 07, if channel 6 = 238 … 255
	154 … 175	Mode 08, if channel 6 = 238 … 255
	176 … 197	Mode 09, if channel 6 = 238 … 255
	198 … 219	Mode 10, if channel 6 = 238 … 255
	220 … 241	Mode 11, if channel 6 = 238 … 255
	242 … 255	Mode 12, if channel 6 = 238 … 255

Channel	Value	Function
8	0	No function
	1 … 255	Stroboscope effect (0 % to 100 %)

7.4 Operating mode Slave

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

1. ▶ Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows *'SLAv'*.

2. ▶ Confirm the selection with *[Setup]*.

⇨ The device now operates in slave mode and follows all processes of the controlling master device.

7.5   Operating mode Dimmer

Dimmer operation can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

1. ▶ Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows *'Colr'*. All LEDs light up with full intensity.

2. ▶ Confirm the selection with *[Setup]*.

3. ▶ Use *[Up]* | *[Down]* to successively adjust the intensity of the four basic colours as required.

- ■ Red: *'r.000'* … *'r.255'*
- ■ Green: *'g.000'* … *'g.255'*
- ■ Blue: *'b.000'* … *'b.255'*
- ■ White: *'u.000'* … *'u.255'*

7.6   Sound control

Sound control can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX. In this operating mode, the device responds to acoustic pulses which are recorded by the integrated microphone.

1. ▶ Press *[Mode]* or *[Up] | [Down]* repeatedly until the display shows *'Soud'*.

2. ▶ Confirm the selection with *[Setup]*.

3. ▶ Use *[Up] | [Down]* to select a mode between *'SO.01'* … *'SO.12'*.

4. ▶ Confirm the selection with *[Setup]*.

5. ▶ Use *[Up] | [Down]* to adjust the microphone sensitivity in a range from *'SU.00'* … *'SU.31'*.

7.7   Reset to factory defaults

1. ▶ Press *[Mode]* or *[Up] | [Down]* repeatedly until the display shows *'Set'*.

2. ▶ Confirm the selection with *[Setup]*.

⇨   The display shows *'-rSt'*

3. ▶ Confirm the selection with *[Setup]* and use *[Up] | [Down]* to choose between *'--NO'* (no reset to factory defaults) or *'-YES'* (reset to factory defaults).
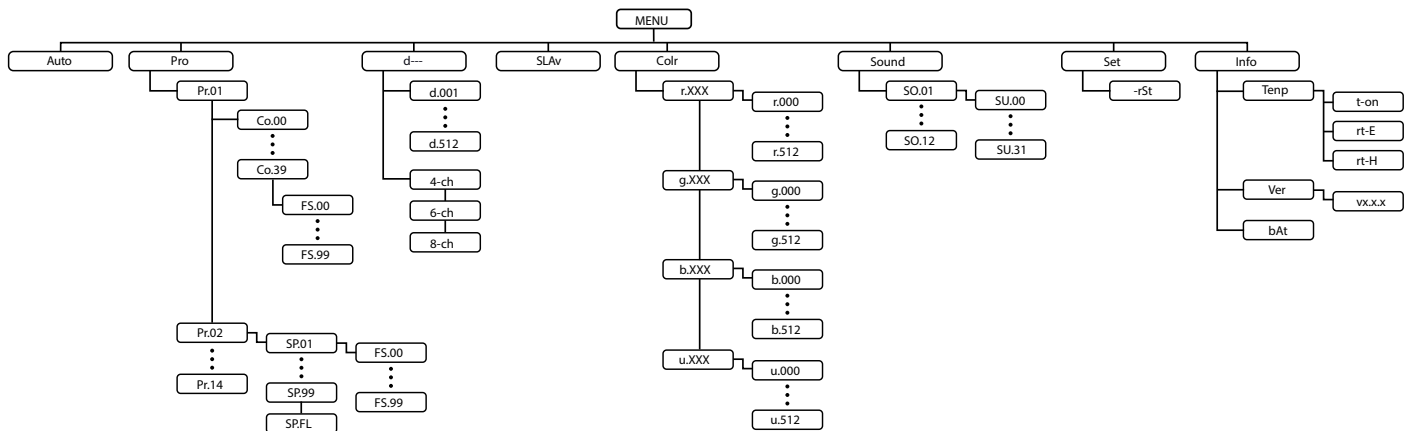
7.8   Device infos

1. ▶ Press *[Mode]* or *[Up]* | *[Down]* repeatedly until the display shows *'InFo'* .

2. ▶ Use *[Up]* | *[Down]* to select the menu item *'Tenp'* and confirm with *[Setup]*.

⇨   The display shows the current device temperature status: *'t-on'* (normal), *'rt-E'* (error), *'rt-H'* (overheated).

> ℹ️ *The device is not suitable for continuous operation. Once the display shows 'rt-H' , the device is overheated. Switch off the device.*

3. ▶ Use *[Up]* | *[Down]* to select the menu item *'Ver'* and confirm with the selection *[Setup]*.

⇨   The current version number is displayed.

4. ▶ Use *[Up]* | *[Down]* to select the menu item *'bAt'* and confirm with the selection *[Setup]*.

⇨   The display shows the current status of the battery.

7.9 Menu overview

A menu tree diagram with the following structure:

MENU branches to: Auto, Pro, d---, SLAv, Colr, Sound, Set, Info

- **Pro** → Pr.01 → Co.00 ... Co.39 → FS.00 ... FS.99
  - Pr.02 ... Pr.14 → SP.01 ... SP.99 → SP.FL → FS.00 ... FS.99
- **d---** → d.001 ... d.512 → 4-ch, 6-ch, 8-ch
- **Colr** → r.XXX → r.000 ... r.512
  - g.XXX → g.000 ... g.512
  - b.XXX → b.000 ... b.512
  - u.XXX → u.000 ... u.512
- **Sound** → SO.01 ... SO.12 → SU.00 ... SU.31
- **Set** → -rSt
- **Info** → Tenp → t-on, rt-E, rt-H
  - Ver → vx.x.x
  - bAt

8   Technical specifications
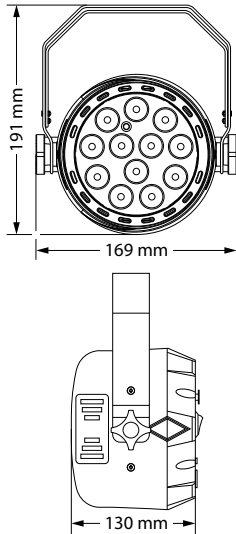
		LED Pot QCL RGB WW 15° item no. 490457	LED Pot QCL RGB WW 40° item no. 490458 item no. 512678
Light source		12 × 4in1 QCL LED, 1 W (red, green, blue and warm white)	
Optical properties	Beam angle	15°	40°
Control		DMX, buttons and display on the device, remote control (item no. 354223, optional)	
Number of DMX channels		4, 6, 8	
Input connections	Power supply	Connection socket for the external power supply	
	DMX control	XLR panel plug, 3-pin	
Output connections	DMX control	XLR panel socket, 3-pin	
Power consumption		15 W	
Power supply		External power adapter, 100 - 240 V ∼ 50/60 Hz	
Operating voltage		12.6 V ⎓ / 1.5 A, centre positive	

		LED Pot QCL RGB WW 15° item no. 490457	LED Pot QCL RGB WW 40° item no. 490458 item no. 512678
Battery	Battery type	Lithium-ion	
	Voltage	3.7 V	
	Capacity	2,560 mAh	
	Charging time in the device	3 h	
	Operating time	4 h	
International Protection Rating		IP20	
Remote control battery		Lithium button cell, CR 2025, 3 V	
Mounting options		Hanging, standing, stand-mounted	
Dimensions (W × H × D), with bracket		169 mm × 191 mm × 130 mm	
Weight		0.76 kg	
Ambient conditions	Temperature range	0 °C…40 °C	
	Relative humidity	20%…80% (non-condensing)	

Further information

	LED Pot QCL RGB WW 15°	LED Pot QCL RGB WW 40°	
	item no. 490457	**item no. 490458**	**item no. 512678**
Design	Up-Light	Up-Light	
Colour mix	RGB WW	RGB WW	
LED type	x-in-1	x-in-1	
Floor housing	Yes	Yes	
Fanless	Yes	Yes	
Remote control	Optional	Optional	
Wireless DMX	No	No	
Housing colour	Black	Black	White

9   Plug and connection assignments

Introduction

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

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

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

10   Troubleshooting

! **NOTICE!**
Data transfer errors due to improper wiring!

If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

Use special DMX cables for the wiring instead of normal microphone cables.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The device is not working, no light	Check the mains connection and the fuse.
No response to the DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.
The built-in battery can no longer be charged	Do not attempt to replace the built-in battery yourself. Please contact our service centre.

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 of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

12 Protecting the environment

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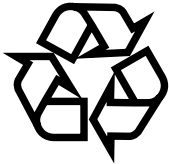
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.
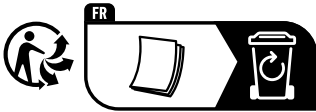
Observe the disposal note regarding documentation in France.

Disposal of batteries

Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites.

Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility.

Dispose of the batteries and rechargeable batteries at relevant collection points or through your local waste facility.

Disposal of your old device
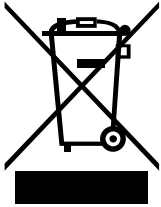
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

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.

Notes

Notes