

## WSL-Q7

### Wireless RGBW PAR Can

Item ref: 154.012UK

User Manual

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Caution: Please read this manual carefully before operating  
Damage caused by misuse is not covered by the warranty

## Introduction

Thank you for choosing the WSL-Q7 wireless quad colour PAR light as part of your effect lighting setup. This unit has been designed to provide wire-free colour effects for stage shows, special events and architecture. Please read the following instructions for best results.

## Unpacking

Your WSL-Q7 should reach you in good condition, supplied with appropriate mains lead(s), mounting bracket and RF antenna. If there is any damage or items missing from the packaging, contact your dealer immediately.

## Warning

To prevent risk of fire or electric shock, do not expose any components to rain or moisture. If liquids are spilled on the housing, disconnect mains, allow unit to dry out and have the unit checked by qualified personnel before further use.

No user serviceable parts inside – do not open – refer all servicing to qualified personnel.

## Safety

- Check for correct voltage and condition of IEC lead before connecting to power outlet
- Ensure DMX leads are in good condition with no short connections or damaged plugs

## Placement

- The WSL-Q7 may be placed free-standing by using the double bracket as a bipod
- If mounted at height, use the double bracket and attach a drop cable for safety
- If the unit is mounted at height, a drop cable should be attached for safety
- Ensure adequate air-flow to the side vents for cooling
- Ensure adequate access to controls and connections and best line of sight for antennas

## Cleaning

- Use a soft dry or slightly damp to clean the cabinet and lenses. Do not use solvents

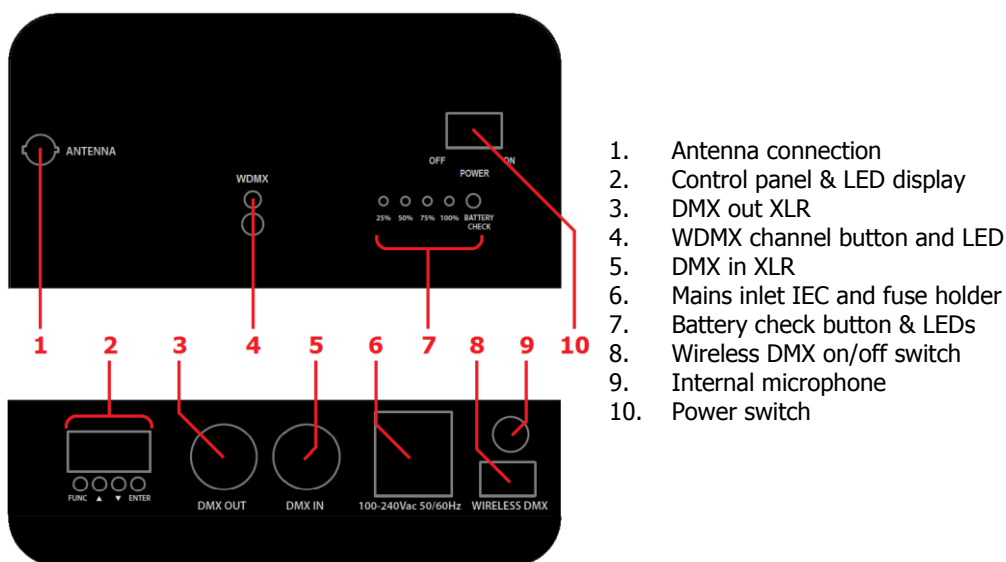
## Charging the battery

The WSL-Q7 can be operated from its own internal rechargeable Lithium ion battery. The charge status can be checked by pressing the BATTERY CHECK button on the rear panel. When this button is pressed, the percentage of full charge is displayed by a row of 4 LEDs. If the battery needs charging, connect to the mains with the supplied IEC lead and the battery will re-charge the battery from the mains. Switching power on will operate the WSL-Q7 from the internal battery or from mains if connected. Switch power off when not in use or when re-charging the battery.

## Setting up

Install the WSL-Q7 by the mounting bracket, which can also be configured as a floor stand. Experiment with positioning and distance to get the best coverage for the area to be lighted. For DMX or master/slave control, link DMX out to DMX in using good quality DMX leads. If the WSL-Q7 is to be mains operated, connect to mains using the appropriate IEC lead.

## Rear panel



## Operation

The WSL-Q7 can be operated in static, auto, sound activated or DMX modes. Depending upon which mode of operation is required, it will be necessary to select options and settings via the control panel and display (2). To set the operating mode, press FUNC, then UP▲ or DOWN▼ through options, then ENTER to select an option.

### Note: Panel Lock

One of the available settings is to activate a security Panel Lock, which can avoid tampering or mistaken adjustment of control settings. When this is active, the control buttons will not work. To unlock the control panel, press the following sequence...

"UP▲... DOWN▼... UP▲... DOWN▼... ENTER"

(same sequence to lock the panel again)

## Control panel settings

Display	Mode	Press ENTER for setting (press FUNC to exit)
<b>Addr</b>	DMX address	<b>ADD 1</b> to <b>RS 12</b>
<b>SLAv</b>	Slave mode	<b>SLA</b> = slave mode active
<b>Chnd</b>	DMX channel mode	<b>RSu</b> , <b>4CH</b> , <b>5CH</b> , <b>6CH</b> , <b>8CH</b> (see appendix)
<b>id</b>	Fixture ID setting	<b>id0 1</b> to <b>id66</b>
<b>SEt</b>	<b>Loc</b> - Panel lock	<b>on</b> / <b>off</b> (see "Note: Panel Lock" section above)
	<b>id</b>	<b>on</b> / <b>off</b> (ID mode on/off)
	<b>r9bU</b> - RGB limit mode	<b>on</b> = enable RGB preset limit <b>off</b> = disable RGB limit
	<b>LEd</b> - display dimmer	<b>on</b> = display off after 15s <b>off</b> = constant display
<b>SoUn</b>	Sound activated	<b>on</b> / <b>off</b> (sound on/off)
<b>r9b</b>	RGB preset limit	<b>r000</b> - <b>r255</b> (red 0-255)
		<b>g000</b> - <b>g255</b> (green 0-255)
		<b>b000</b> - <b>b255</b> (blue 0-255)
<b>vEr</b>	Software version	<b>---</b> (displays software version)
<b>StAt</b>	Static colour & strobe	<b>r000</b> - <b>r255</b> (red 0-255)
		<b>g000</b> - <b>g255</b> (green 0-255)
		<b>b000</b> - <b>b255</b> (blue 0-255)
		<b>W000</b> - <b>W255</b> (white 0-255)
		<b>SP00</b> - <b>SP20</b> (strobe speed)
<b>Aut0</b>	Auto program 1-2	<b>Aut 1</b> - <b>2</b> [press enter again] <b>SP 1</b> - <b>SP9</b> (speed)
<b>SoUn</b>	Sound activated mode	<b>SoU 1</b> - <b>SoU2</b> (sound activated programs 1-2)

## Custom settings

The control panel has various options to modify the behaviour of the WSL-Q7.

- **SEt** / **id** setting enables several WSL-Q7 fixtures to be controlled as a DMX group (Setting 2 units to **id0 1** and another 2 units to **id02** will allow control as 2 pairs)
- **SEt** / **r9bU** setting allows the user to set the WSL-Q7 as white mode or RGBW fixture
- **SEt** / **LEd** when set to **on**, the LED display will go out 15secs after no button pushes (LED display automatically lights again when any control panel buttons are pressed)
- **r9b** controls balance of red / green / blue colour elements to suit the application (e.g. in a room with a lot of red surfaces, it may be preferred to reduce the red level)

## Standalone operation

Static colour or single colour strobing is selectable via the **StAt** option on the control panel. When the red, green, blue, white colour levels are set, **SP00** - **SP20** sets the strobe speed. If a more dynamic effect is needed, 2 **Aut0** programs can be selected. When the auto program is selected, pressing ENTER again enables speed adjustment. 2 **SoUn** sound activated options are also available responding to the internal microphone.

## Master/Slave operation

From the control panel, the WSL-Q7 can be set to Slave mode (**SLAv**) to be controlled by another WSL-Q7 via a DMX link. For instance, setting a WSL-Q7 unit to Auto1 and connecting DMX out to the DMX in of another WSL-Q7 that has been set to Slave mode will make the slave unit mimic the Auto1 program of the first unit.

In addition to wired connection, a WSL-Q7 in Slave mode can be controlled wirelessly from another WSL-Q7 via a WDMX. See "Wireless Master/Slave operation" below.

## DMX operation

The WSL-Q7 can operate from a DMX signal connected to the DMX IN connector (5) on the rear panel. This signal can be connected on to further units from the DMX OUT connector (3). To operate via DMX, set the DMX start address in the **Addr** option on the control panel. Depending upon how much control is required and how many channels can be allocated; there are 5 modes of DMX operation, which are selected via the **Chnd** option on the control panel. The channel allocations for these are detailed in the appendix of this manual.

## Wireless DMX

In addition to wired connection, the WSL-Q7 can be controlled wirelessly from a WDMX-2 transceiver (154.152UK) by connecting the supplied antenna and switching on the WIRELESS DMX (WDMX) function (8). The 3-colour WDMX LED will light with one of 7 colours to designate the WDMX channel, as shown below.

Ch 1	Red	Ch 5	Red + Blue
Ch 2	Green	Ch 6	Green + Blue
Ch 3	Red + Green	Ch 7	Red + Green + Blue
Ch 4	Blue		

Pressing the WDMX button cycles through the channel settings, changing the colour of the WDMX LED, which in turn should be matched with the colour of the WDMX-2 transceiver. Check the manual of WDMX-2 (154.152UK) for more information. When the WSL-Q7 detects the DMX signal from a WDMX-2 transceiver with the same channel setting, the LED on the rear panel of will flash green. DMX is now linked wirelessly and works as if connected by XLR.

## Wireless Master/Slave operation

As with DMX, this wireless connection can be used with Master/Slave mode if both master and slave WSL-Q7 units have WDMX switched on with the same channel setting. The master unit acts as a transmitter (WDMX LED flashes red when linked) and the slave unit(s) acts as the receiver (WDMX LED flashes green when connected). Master/Slave operation will work in the same manner as if connected by XLR cable.

## Specifications

Mains power	100-240Vac, 50-60Hz
Current consumption	0.5A @ 230V
Fuse rating	F3.15A
Rated power	60W
Battery	12Vdc 10Ah Li-ion rechargeable
Charge time	5 hours
Battery life	10hrs 2/3 colours, 3.5-4hrs full colour
Mode(s)	Auto, sound, master, slave, DMX (wired or wireless)
LEDs	7 x 8W
LED type	Quad colour (red, green, blue, white)
Beam angle	25°
Connections	DMX in, DMX out (XLR), mains (IEC)
Carrier frequency	2.400 - 2.525GHz
Wireless range	200m max. (line of sight)
Dimensions	279 x 273 x 110mm
Weight	3.04kg
Laser & LED safety standard	BSEN60825-1 2007

## Troubleshooting

No power (mains)	Check mains voltage is correct and outlet is switched on
	Check IEC lead and fuse (if fuse continually blows, refer to your dealer)
No power (battery)	Ensure the power switch is in the ON position
	Check the battery charge level and charge from mains if required
No LED display or display frozen	Press any control panel button and check LED setting in SET menu
	Check if display is locked (see "Note: Panel Lock" on p.3)
No light output	Check control panel mode settings (static, slave, DMX etc.)
	Check DMX settings from controller (dimmer levels, blackout etc.)
Uneven colour mix	Check RGB and RGBW settings on the control panel
Unresponsive to DMX (wired)	Check DMX connection and leads
	Check that DMX mode is enabled (set "Addr" on control panel)
Unresponsive to DMX (wireless)	Check that WDMX is switched on and antennas can "see" each other
	Check that both transmitter and receiver have the same WDMX channel
Overheating/ cutting out	Ensure that the unit is not too close to a heat source
	Ensure that cooling vents on the side panels are clear and not covered



**Disposal:** The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

*Errors and omissions excepted.  
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## Appendix: DMX implementation

HSV (3CH)	Mode	Value	Function
Channel 1	Hue	000-255	Scroll through colours
Channel 2	Saturation	000-255	Adjust depth of colour mix
Channel 3	Value	000-255	Master dimmer

4CH Mode	Mode	Value	Function
Channel 1	Red	000-255	Red brightness 0-100%
Channel 2	Green	000-255	Green brightness 0-100%
Channel 3	Blue	000-255	Blue brightness 0-100%
Channel 4	White	000-255	White brightness 0-100%

5CH Mode	Mode	Value	Function
Channel 1	Dimmer	000-255	Master dimmer 0-100%
Channel 2	Red	000-255	Red brightness 0-100%
Channel 3	Green	000-255	Green brightness 0-100%
Channel 4	Blue	000-255	Blue brightness 0-100%
Channel 5	White	000-255	White brightness 0-100%

6CH Mode	Mode	Value	Function
Channel 1	Dimmer	000-255	Master dimmer 0-100%
Channel 2	Red	000-255	Red brightness 0-100%
Channel 3	Green	000-255	Green brightness 0-100%
Channel 4	Blue	000-255	Blue brightness 0-100%
Channel 5	White	000-255	White brightness 0-100%
Channel 6	Strobe	000-255	Speed: slow to fast

8CH Mode	Mode	Value	Function
Channel 1	Dimmer	000-255	Master dimmer 0-100%
Channel 2	Red	000-255	Red brightness 0-100%
Channel 3	Green	000-255	Green brightness 0-100%
Channel 4	Blue	000-255	Blue brightness 0-100%
Channel 5	White	000-255	White brightness 0-100%
Channel 6	Strobe	000-255	Speed: slow to fast
Channel 7	Preset	000-015	No function
		016-031	Colour scroll 1
		032-047	Colour scroll 2
		048-063	Pastel scroll
		064-095	Pastel scroll with fade
		096-111	White strobe (slow to fast)
		112-127	Colour fade
		128-144	Colour jump
		145-159	Colour flash
		160-175	Colour fade out
		176-191	Colour fade in
		192-207	Colour fade in/out
		208-223	Fast scroll
		224-255	Off
Channel 8	ID address	000-009	All IDs
		010-019	ID01
		020-029	ID02
		030-039	ID03
		040-049	ID04
		050-059	ID05
		060-069	ID06
		070-079	ID07
		080-089	ID08
		090-099	ID09
		100-109	ID10
		110-119	ID11
		120-129	ID12
		130-139	ID13
		140-149	ID14
		150-159	ID15
		160-169	ID16
		170-179	ID17
		180-189	ID18
		190-199	ID19
		200-209	ID20
		210-255	ID21 – ID66 (in steps of 1)