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I.R 📶

Slimline 5Q5

Order code: LEDJ58 - Black (RGBW)
Order code: LEDJ58A - White (RGBW)

Slimline 7Q5

Order code: LEDJ59 - Black (RGBW)
Order code: LEDJ59A - White (RGBW)
Order code: LEDJ59B - Black (RGBA)
Order code: LEDJ59C - White (RGBA)

USER MANUAL

WARNING

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

CAUTION!

**Keep this equipment away from rain,
moisture and liquids.**

SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this
equipment should:
- Be competent
- Follow the instructions of this manual

**CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**

Before your initial start-up, please make sure that there is no damage caused during
transportation. Should there be any, consult your dealer and do not use the
equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary
for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not
subject to warranty.

IMPORTANT:

**The manufacturer will not accept liability for any resulting damages caused
by the non-observance of this manual or any unauthorised modification to the
equipment.**

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Cleaning must be done at regular intervals.
- Before cleaning, wait until the unit has cooled.
- Use a vacuum or dry compressed air and a soft brush to remove the dust collected on the external vents and accessible internal components.
- Clean the external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol and wipe with a soft, lint free cotton cloth or lense cleaning tissue.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 100V-240V.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual,
the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks,
LED failure etc.

Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

You should find inside the LEDJ carton the following items**:**

1, Slimline 5Q5 or 7Q5   2, Instruction manual   3, Power cable
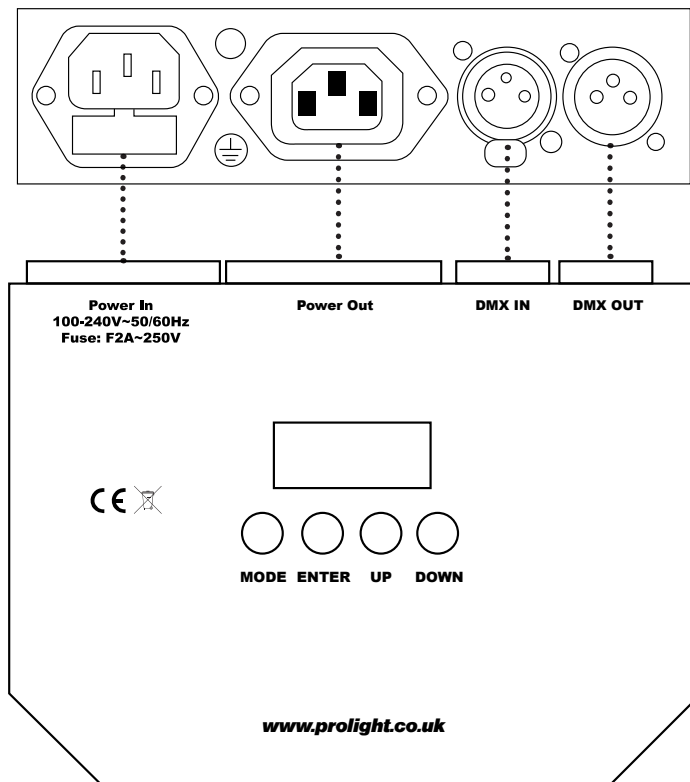
Technical Specifications:

DMX channels: 2, 3, 4 or 7 selectable
400Hz refresh rate
4 push button menu with LED display
Beam angle: 25 degrees
5 or 7 x 5W quad-colour LEDs
Optional I.R. remote (LEDJ90C)

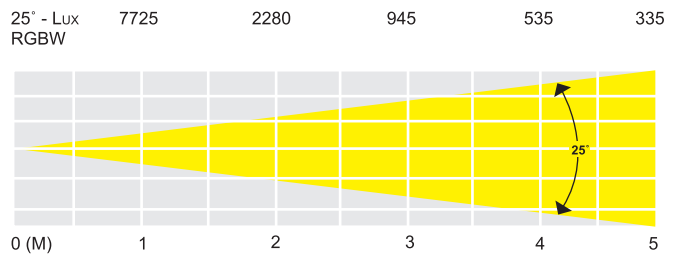| Convection cooled	**7Q5**	**5Q5**
Power consumption:	45W	38W
Power supply:	100-240V~50/60Hz	100-240V~50/60Hz
Dimensions:	202 x 99 x 224mm	202 x 99 x 224mm
Weight:	2.5Kgs	2Kgs

Operating modes: 1, Static colour mix mode
2, Built-in programmes
3, Slave mode
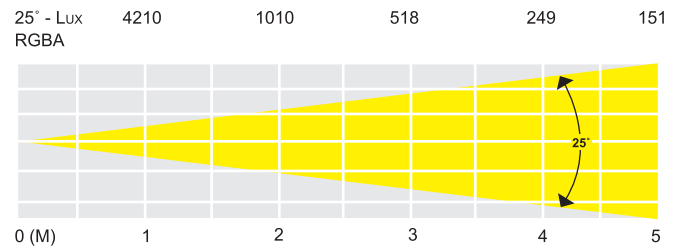4, Sound active mode
5, DMX mode
6, DMX channel mode

Overview:

Power In
100-240V~50/60Hz
Fuse: F2A~250V

Power Out   DMX IN   DMX OUT

MODE   ENTER   UP   DOWN

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Lumen Charts:

7Q5

25˚ - Lux RGBW	7725	2280	945	535	335

0 (M)	1	2	3	4	5

7Q5

25˚ - Lux RGBA	4210	1010	518	249	151

0 (M)	1	2	3	4	5

5Q5

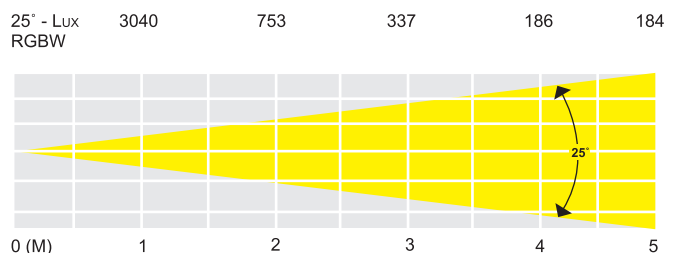| 25˚ - Lux RGBW	3040	753	337	186	184

0 (M)	1	2	3	4	5

1a, RGBW colour mix mode
In this mode you can set the 5Q5 or 7Q5 to any colour and any brightness.
Press the **"MODE"** button to show **"r- - -"** with three digits after it.

The **"r"** represents Red, **"G"** = Green, **"b" =** Blue, **"U"** = White and **"F-0"** = strobe.
The three digits after it are the brightness 000 to 255 or in **"F-0"** they are the strobe speed.

Examples: If you set "r", "G", "b" and "U" all to zero, your unit will have no LEDs showing (blackout).
If you set "r" to 255 and "G", "b" and "U" to zero your unit will be 100% Red.

1b, RGBA colour mix mode
In this mode you can set the 7Q5 RGBA to any colour and any brightness.
Press the **"MODE"** button to show **"r- - -"** with three digits after it.

The **"r"** represents Red, **"G"** = Green, **"b" =** Blue, **"A"** = Amber and **"F-0"** = strobe.
The three digits after it are the brightness 000 to 255 or in **"F-0"** they are the strobe speed.

Examples: If you set "r", "G", "b" and "A" all to zero, your unit will have no LEDs showing (blackout).
If you set "r" to 255 and "G", "b" and "A" to zero your unit will be 100% Red.

2 Built-in programme mode
Press the **"MODE"** button to show **"Pr00"** on the LED display. Press the **"ENTER"** button and use
the **"UP"** and **"DOWN"** buttons to scroll through the 21 built-in programmes. Now press the
the **"ENTER"** button again to change the speed from SP-0 to SP-9 using the **"UP"** and **"DOWN"**
buttons. Now press the **ENTER"** button a final time to add strobe from F-0 to F-9.

Built-in programme list:

Pr00 = Colour fade/colour change
Pr01 - Pr15 = Static colours (15 in total)
Pr16 = 15 colour change
Pr17 = 15 colour fade
Pr18 = 4 colour change
Pr19 = 4 colour fade
Pr20 = 3 colour change

3, Slave mode
Link the units together using a 3-pin DMX cable, then press the **MODE** button to select one of the
above modes. On the Slave units press the mode button until the LED display shows **"SLAV".** The
Slave units will then follow in sequence with the Master unit.

4, Sound active mode
Press the "**MODE"** button until the LED display shows **"SU00"**, then press the
"ENTER" button to set the desired sensitivity level using the **"UP"** and **"DOWN"** buttons.
The sound sensitivity levels are from 00-99 (00 = low, 99 = high)

5), DMX Addressing mode

To access the DMX address mode, press the "**MODE"** button until the LED display shows **"A001",** then using the **"UP"** and **"DOWN"** buttons you can set the DMX address.

Please follow the DMX channel assignment and function table overleaf.

6), DMX channel mode

To select one of the DMX channel modes, press the "**MODE"** button until the LED display shows **"A001",** press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to select either one of the 2, 3, 4 or 7 channel DMX modes and press the **"ENTER"** button to confirm your choice.

Note: The speed settings for the built-in programmes are from 0 - 9 - 255 (0 = off, 9 = fast).
      The strobe speed settings for the built-in programmes and colour mix modes are from
       0 - 9 (0 = off, 9 = fast).

Note: After 30 seconds of none use the LED display will blackout. To turn it back on, simply press
      any of the buttons.

Optional I.R remote functions (LEDJ90C)

Button functions:

The **"BLACKOUT"** button is used to set the LEDs into the power on or off modes.
The **"S PR"** button is used to run the built-in programmes. To go though the built-in programmes, press the **"+"** and **"-"** buttons.
The **"FL"** button is used to set the LEDs to flash on and off, to change the flash frequency use the **"+"** and **"-"** buttons.
The **"SP"** button is used to set the run speed, this button is available only in the colour change or colour fade modes. To change the speed use the **"+"** and **"-"** buttons.
The **"D"** button is used to set the LEDs into DMX mode. (See DMX value table)
The **"SA"** button is used to set the LEDs into sound activated mode.
The **"SL"** button is used to set the LEDs into slave mode.
The **"S", "0", "1", "2", "3", "4", "5", "6", "7", "8"** and **"9"** buttons are used to set the DMX address for the LED's. (see example below)
The **"R", "G", "B" and "A/W"** buttons are used to set the brightness for the Red, Green, Blue and Amber/White LEDs, to change the brightness use the **"+"** and **"-"** buttons.

DMX Address Examples:

To set the DMX address "245";
    1) Press the **"S"** button, so the red LEDs come on, this means you can now start to set the DMX address.
    2) Press the **"2"** button, so the green LEDs come on, this means the first digit **"2"** (the hundreds place) setting is successful.
    3) Now Press the **"4"** button, and the blue LEDs will come on, this now means that the second digit **"4"** (tens place) setting is successful.
    4) Now Press the **"5"** button, and all of the R, G, B, A/W LEDs will come on, this means that the final digit **"5"** (units place) setting is successful and the full DMX address setting has been changed
    5) Now press the **"DMX MODE"** button to save the new address into memory.

To set the DMX address "002";

    1) Press the **"S"** button, so the red LEDs come on, this means you can now start to set the DMX address.
    2) Press the **"0"** button, so the green LEDs come on, this means the first digit **"0"** (the hundreds place) setting is successful.
    3) Now Press the **"0"** button, and the blue LEDs will come on, this now means that the second digit **"0"** (tens place) setting is successful.
    4) Now Press the **"2"** button, and all of the R, G, B, A/W LEDs will come on, this means that the final digit **"2"** (units place) setting is successful and the full DMX address setting has been changed.
    5) Now press the **"DMX MODE"** button to save the new address into memory.

Important notes:
• **Set the DMX address on each fixture before plugging into the DMX controller.**
• **The I.R Remote is cannot be used when the fixture(s) are being controlled by a DMX controller.**
• **The maximum transmitter distance is 10M. Please make sure that you have the I.R remote aimed directly at each fixture to be programmed,**
• **If you do not press the "DMX MODE" button after you have changed the DMX address, when you power down the fixture it will lose the address you have set.**

Slimline 5Q5 and 7Q5 RGBW DMX Charts

2 channel DMX chart

Channel	Value	Function
1	0-240	Master dimmer
	241-255	Strobe
2	0-4	Blackout
	5-80	Colour Macro
	81-150	Colour Jump
	151-255	Colour Fade

3 channel DMX chart

Channel	Value	Function
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%

4 channel DMX chart

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

7 channel DMX chart

Channel	Value	Function
1	000-255	Master dimmer
2	000-255	Strobe
3	000-255	Red (0 - 100%)
4	000-255	Green (0-100%)
5	000-255	Blue (0-100%)
6	000-255	White (0-100%)
7	0-4	No function
	5-80	Colour Macro
	81-150	Colour change
	151-255	Colour fade

Slimline 7Q5 RGBA DMX Charts

2 channel DMX chart

Channel	Value	Function
1	0-240	Master dimmer
	241-255	Strobe
2	0-4	Blackout
	5-80	Colour Macro
	81-150	Colour Jump
	151-255	Colour Fade

3 channel DMX chart

Channel	Value	Function
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%

4 channel DMX chart

Channel	Value	Function
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%
4	0-255	Amber 0-100%

7 channel DMX chart

Channel	Value	Function
1	000-255	Master dimmer
2	000-255	Strobe
3	000-255	Red (0 - 100%)
4	000-255	Green (0-100%)
5	000-255	Blue (0-100%)
6	000-255	Amber (0-100%)
7	0-4	No function
	5-80	Colour Macro
	81-150	Colour change
	151-255	Colour fade

DMX-512:
• DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX Linking:
• DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA Cable (DMX cable) requirements (for DMX operation):
• The Slimline 5Q5 and 7Q5 can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.
Please quote:
    CABL10 – 2M
    CABL11 – 5M
    CABL12 – 10M
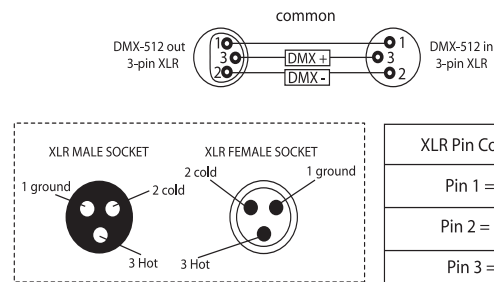
common
DMX-512 out
3-pin XLR
DMX +
DMX -
DMX-512 in
3-pin XLR

XLR MALE SOCKET
1 ground
2 cold
3 Hot

XLR FEMALE SOCKET
2 cold
1 ground
3 Hot

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Figure 1   Figure 3   Figure 2

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:
• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

Special Note: Line termination:
  • When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.
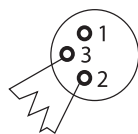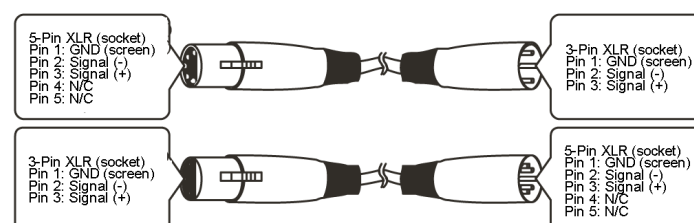
1
3
2
Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.

5-Pin XLR DMX Connectors:
  • Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The Chart below details the correct cable conversion

5-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

Notes:

English

**Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with seperate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please seperate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Create the right effect