LEDJ

Spectra Par Q12B
Exterior Fixture

User Manual

Order code: LEDJ289

WARNING

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

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, 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.

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

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 unit.
- Do not open the equipment and do not modify the unit.
- 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.
- Do not expose to flammable sources including liquids or gases.
- 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 mains supply voltage is between 100~240V AC, 50/60Hz.
- 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 and have a qualified engineer inspect the equipment before operating again.

- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light 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.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- 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 and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.
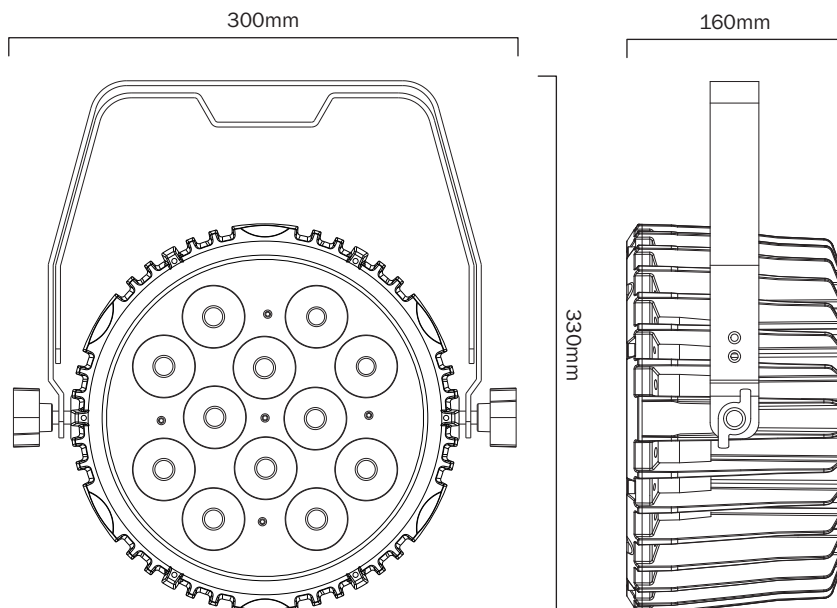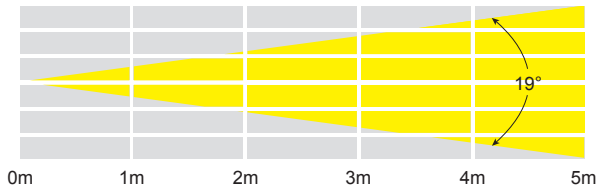
Spectra Q Series

The Spectra Par Q12B combines high output, 4W quad-colour RGBW LEDs together with integral battery and wireless DMX to form a truly multi-purpose, IP rated Par style fixture for colour washing. The ability to operate as a true wireless fixture away from power sources allows rental and event companies to create light shows in remote locations.
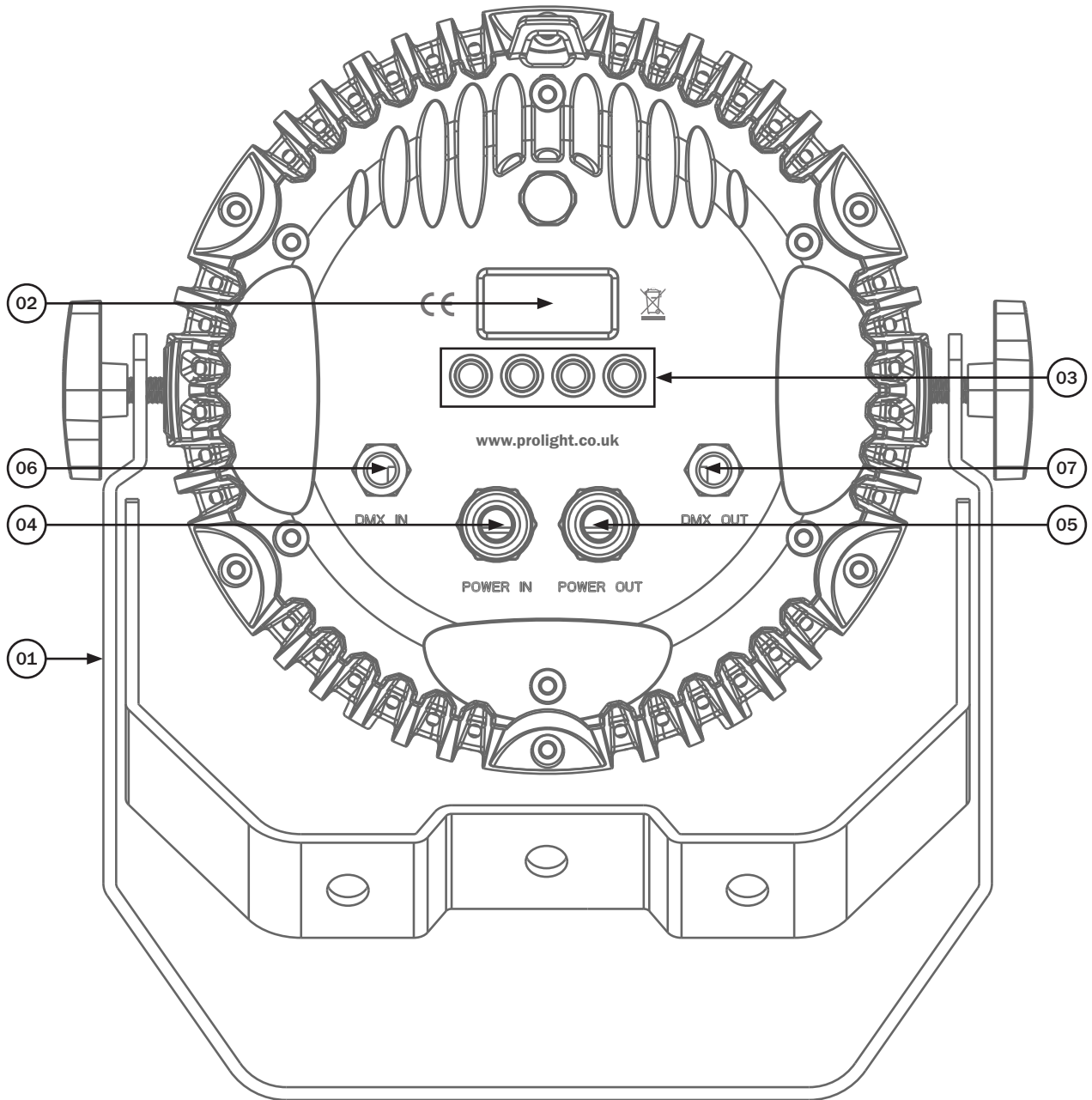
IP65

- 12 x 4W quad-colour LEDs (RGBW)
- Beam angle: 19°
- 3,400 Lux @ 2m (full on)
- 7.8kHz refresh rate
- DMX channels: 4, 6 or 8 selectable
- Wireless DMX control (W-DMX Sweden compatible)
- Static colour, colour change, colour fade, auto and master/slave modes
- 0 - 100% dimming and variable strobe
- 3 push button menu with LCD display
- Rechargeable battery for wireless applications
- Maximum run time: 15 hours (single colour), 12 hours (colour change/fade), 4.5 hours (full on)
- Charging time: 6.5 hours(max.)
- PowerCON TRUE1 input/output trailing connections
- IP rated 5-Pin XLR input/output trailing connections

Specifications	Spectra Par Q12B
Power consumption	35W
Power supply	100~240V, 50/60Hz
Battery	22.2V 10,400mAh
Dimensions	330 x 300 x 160mm
Weight	6.4kg
Order codes	LEDJ289

19° - Lux

FULL ON	13600	3400	1510	850	544
R	2660	664	295	166	106
G	4240	1061	471	265	170
B	916	229	102	57.3	36.6
W	5320	1332	591	333	213

19°

0m   1m   2m   3m   4m   5m

300mm

160mm

330mm

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www.prolight.co.uk

DMX IN

POWER IN   POWER OUT

DMX OUT

02 — LCD display
03 — Function buttons
06 — IP rated 5-Pin XLR trailing input
07 — IP rated 5-Pin XLR trailing output
04 — IPowerCON TRUE1 input
05 — PowerCON TRUE1 output
01 — Bracket

01 - Bracket
02 - LCD display
03 - Function buttons
04 - IPowerCON TRUE1 input

05 - PowerCON TRUE1 output
06 - IP rated 5-Pin XLR trailing input
07 - IP rated 5-Pin XLR trailing output

In the box: **1 x fixture,
1 x power cable &
1 x user manual**

Menu Operation:

When using the menu system, press and hold the "**SETUP**" button to enter the menu required.

E.g. To access the DMX channel mode, press the "**SETUP**" button on the rear of the unit to show "DMX" on the LED display. Press and hold the "**SETUP**" button and "Address" will be displayed. Now use the "**UP**" and "**DOWN**" buttons to select the desired DMX address.

To exit out of any of the above options, press the "**SETUP**" button.

Main Menu	Sub Menu	Options/Values		Description
AUTO				Auto Mode
PROGRAM	Program Show01	Black, Red, Green, Blue, White, Amber, Orange, Yellow, Purple, Pink, Cyan, Light Yellow, Light Red, Light Green, Light Blue, Warm White, Cold White		Built-in programs (Static colour)
	Program Show02-10	Speed 001-100	Flash 000-099	Built-in programs
DIMMER	Red:	000-255		Manual Dimming Mode
	Green:	000-255		
	Blue:	000-255		
	White:	000-255		
DMX	Address:	001-512		DMX Address Setting
	Channel:	04 (4 channel mode)		DMX Channel Setting
		06 (6 channel mode)		
		08 (8 channel mode)		
SLAVE				Slave Mode Setting
SETTINGS	LCD back light	Time set	05 s	LCD Backlight Setting
			10 s	
			20 s	
			30 s	
			ON	
	Factory Reset	Reset	No	Factory Reset
			Yes	
	Wireless Setting	Wireless	Off	Wireless DMX Setting
			On	
INFO	Temperature	Normal		Fixture Temperature
		Warning Error		
	Software version	Version Vx.x.x		Software Version
	Battery Charge	Battery xxx%		Battery Charge Percentage

W-DMX settings:

To enable/disable W-DMX, press the "**SETUP**" button to show "SETTINGS". Press and hold the "**SETUP**" button and use the "**UP**" and "**DOWN**" buttons to select "Wireless Setting". Press and hold the "**SETUP**" button again and use the "**UP**" and "**DOWN**" buttons to select "ON"/"OFF".

Press the "**SETUP**" button to confirm the setting.

DMX channel modes:

Channel			Value	Function	
04	06	08			
	1	1	000-255	Master dimmer (0-100%)	
1	2	2	000-255	Red (0-100%)	
2	3	3	000-255	Green (0-100%)	
3	4	4	000-255	Blue (0-100%)	
4	5	5	000-255	White (0-100%)	
			000	No function	
			001-027	Program 1	
			028-055	Program 2	
			056-083	Program 3	
			084-111	Program 4	
		6	112-139	Program 5	Colour Presets
			140-167	Program 6	
			168-195	Program 7	
			196-223	Program 8	
			224-251	Program 9	
			252-255	Program 10	
			000-014	Black	
			015-029	Red	
			030-044	Green	
			045-059	Blue	
			060-074	White	
			075-089	Amber	
			090-104	Orange	
			105-119	Yellow	
		7	120-134	Purple	000-255 Speed (slow-fast) Programs 02-10
			135-149	Pink	
			150-164	Cyan	
			165-179	Light Yellow	
			180-194	Light Red	
			195-209	Light Green	
			210-224	Light Blue	
			225-239	Warm White	
			240-255	Cold White	
	6	8	000-255	Strobe (slow-fast)	

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

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):

This fixture 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, see image below.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.
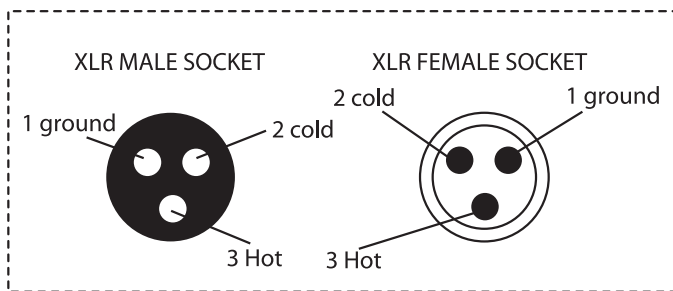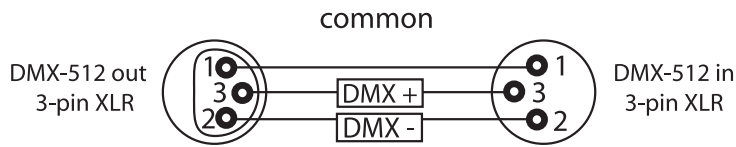
Please quote:

    CABL10 – 2m
    CABL11 – 5m
    CABL12 – 10m

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

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

common

DMX-512 out   DMX +   DMX-512 in
3-pin XLR   DMX -   3-pin XLR

XLR MALE SOCKET   XLR FEMALE SOCKET

1 ground   2 cold   2 cold   1 ground

3 Hot   3 Hot

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

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.
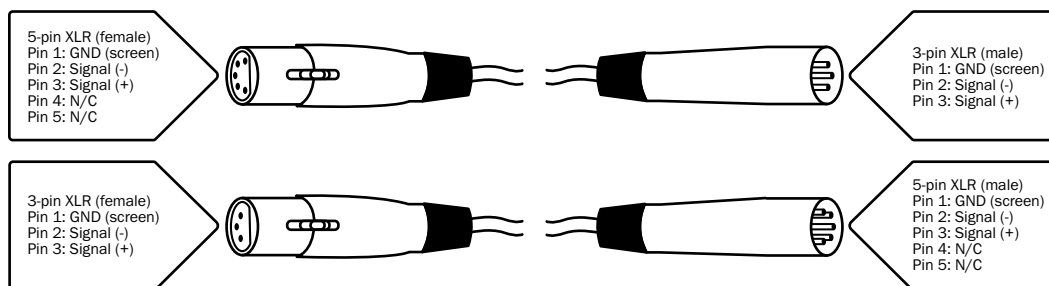
Using a cable terminator will decrease the possibilities of erratic behaviour.

(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interference. 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.

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 diagram below details the correct cable conversion.

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

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

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

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

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Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)

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

This marking shown on the product or its literature, indicates that it should not be disposed of 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 separate 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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