

LEDJ

Spectra Q Series Exterior Fixtures

User Manual



Order code:

LEDJ286 - Spectra Flood Q6

LEDJ287 - Spectra Flood Q15

LEDJ288 - Spectra Batten Q16

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.

**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 LEDJ IP65 rated Spectra Q series bathes architectural details in constantly changing colours from its high output LEDs. The 45° beam angle smoothly washes facades and features in deep rich colours or warm pastel tones. The rugged aluminium exterior ensures years of use in all weather conditions while the integral mounting brackets complete the fixtures sleek, modern appearance. The LED menu display with 4 touch button control panel and OLED display facilitates control over colour mixing, colour fades, chases and DMX.



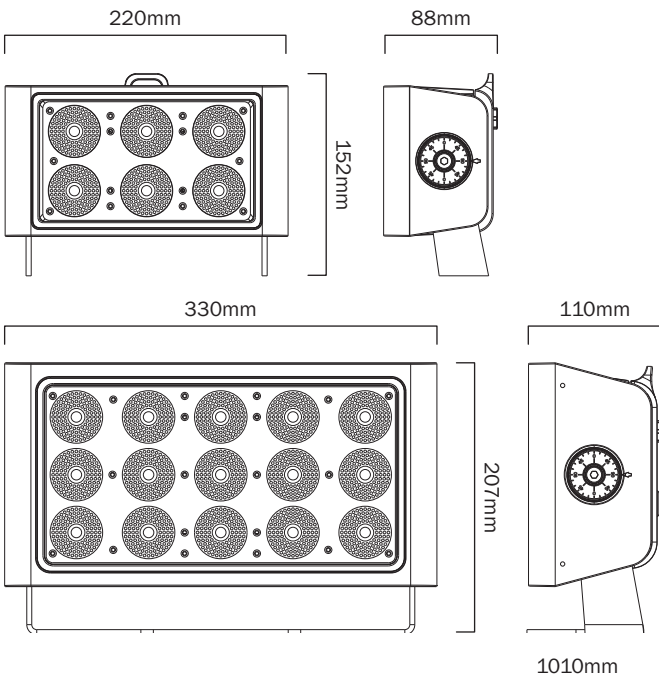
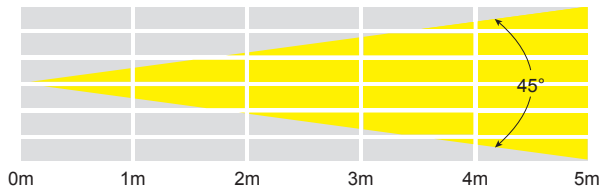
- 6 x 5W quad-colour LEDs (RGBW) - LEDJ286
15 x 5W quad-colour LEDs (RGBW) - LEDJ287
16 x 5W quad-colour LEDs (RGBW) - LEDJ288
- Beam angle: 45°
- 675 Lux @ 2m (full on) - LEDJ286
1,746 Lux @ 2m (full on) - LEDJ287
2,429 Lux @ 2m (full on) - LEDJ288
- 12kHz refresh rate - LEDJ286 & LEDJ288
4kHz refresh rate - LEDJ287
- DMX channels: 4, 6 or 9 selectable
- Static colour, colour change, colour fade, auto and master/slave modes
- 0 - 100% dimming and variable strobe
- 4 push button menu with OLED display
- IP rated power input/output
- IP rated 3-Pin DMX input/output

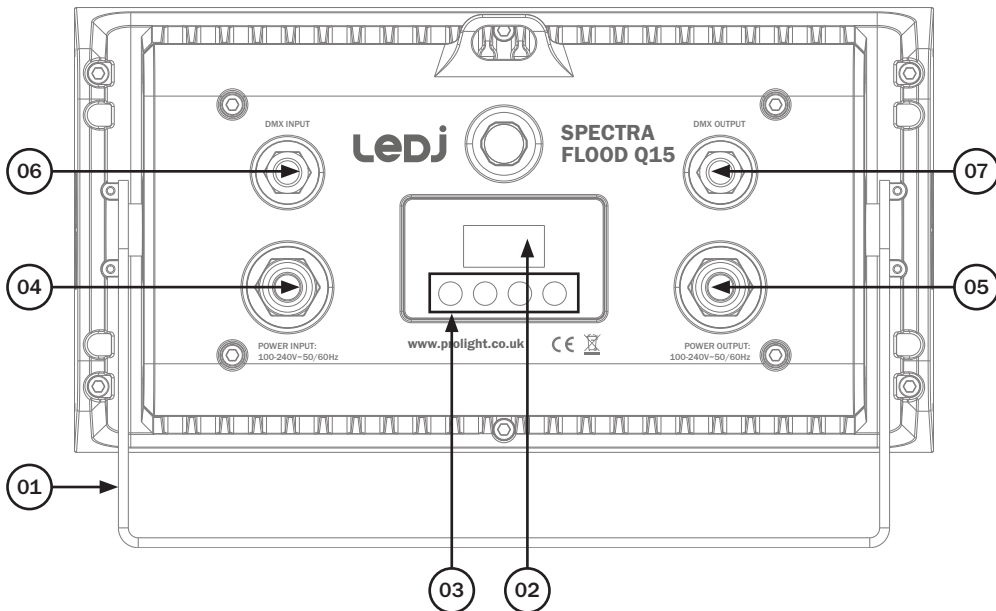
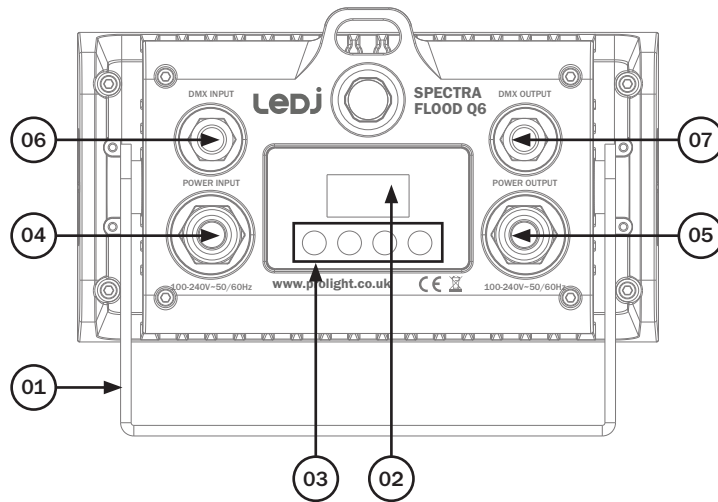
Specifications	Spectra Flood Q6	Spectra Flood Q15	Spectra Batten Q16
Power consumption	35W	80W	85W
Power supply	100~240V, 50/60Hz	100~240V, 50/60Hz	100~240V, 50/60Hz
Dimensions	152 x 220 x 88mm	207 x 330 x 110mm	140 x 1010 x 145mm
Weight	2.5kg	5.2kg	6.1kg
Order codes	LEDJ286	LEDJ287	LEDJ288

Q6 - Lux					
FULL ON	2765	675	309	182	125
R	660	157	68	40	28
G	836	207	96	57	39
B	190	48	22	13	9
W	1223	299	137	80	55

Q15 - Lux					
FULL ON	7080	1746	789	461	319
R	1623	388	168	98	69
G	2196	541	247	146	101
B	500	125	58	33	24
W	3193	796	361	211	144

Q16 - Lux					
FULL ON	5670	2429	1258	765	512
R	1107	479	240	145	96
G	2507	1064	559	336	226
B	450	186	97	61	41
W	2114	879	457	281	189





- 01 - Bracket
- 02 - OLED display
- 03 - Function buttons
- 04 - IP rated power trailing input

- 05 - IP rated power trailing output
- 06 - IP rated 3-Pin DMX trailing input
- 07 - IP rated 3-Pin DMX trailing output

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

IMPORTANT! PLEASE NOTE: The OLED display for this fixture has a menu locking function where after 20 seconds of inactivity it will lock. To unlock the menu hold the “**MODE**” and “**SET**” buttons for 3 seconds.

Main Menu	Sub Menu	Options/Values	Description
1:DMX	1) Address:	001-512	DMX Address Setting
	2) Channels:	04 (4 channel mode)	DMX Channel Setting
		06 (6 channel mode)	
		09 (9 channel mode)	
2:Slave		Slave Mode Setting	
3:Auto		Auto Mode	
4:Program	1) Mode:	01-14	Built-in Programs
	2) Color: (mode 1)	00-15	
	2) Speed: (mode 2-14)	001-100	
	3) Strobe	00-99	
5:Dimmer	1) Red	000-255	Manual Dimming Mode
	2) Green	000-255	
	3) Blue	000-255	
	4) White	000-255	
6:Settings	1) Curves Select	1) Linear	Dimming Curves Setting
		2) Square Law	
		3) Inv Square Law	
		4) S-Type	
	2) Dimmer Speed	Fast	Dimming Curves Speed Setting
		Smooth	
	3) Dmx Fail	Off	DMX Signal Failure Setting
		Hold	
	4) Dmx Sync	On	DMX Synchronisation Setting
		Off	
5) Lock	Yes	Display Lock Setting	
	No		
6) Factory	Yes	Factory Reset	
	No		
7:Information	Versions:	Software Version	
	Temperature:	Fixture Temperature	
	UID:	Fixtures UID	

Colour macros:

0	Blackout
1	Red
2	Green
3	Blue

4	White
5	Amber
6	Orange
7	Yellow

8	Purple
9	Pink
10	Cyan
11	Pastel Red

12	Pastel Green
13	Pastel Blue
14	Warm White
15	Cool White

DMX channel modes:

Channel			Value	Function	
04	06	09			
	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%)	
		6	000-015	No function	Colour Presets
			016-031	Red	
			032-047	Green	
			048-063	Blue	
			064-079	White	
			080-095	Amber	
			096-111	Orange	
			112-127	Yellow	
			128-143	Purple	
			144-159	Pink	
			160-175	Cyan	
			176-191	Pastel Red	
			192-207	Pastel Green	
			208-223	Pastel Blue	
			224-239	Warm White	
240-255	Cool White				
		7	000	No function	Built-in programs
			001-019	Program 02	
			020-039	Program 03	
			040-059	Program 04	
			060-079	Program 05	
			080-099	Program 06	
			100-119	Program 07	
			120-139	Program 08	
			140-159	Program 09	
			160-179	Program 10	
			180-199	Program 11	
			200-219	Program 12	
			220-239	Program 13	
			240-255	Program 14	
			000-255	Program 15	
		8	000-255	Speed (slow-fast)	
	6	9	000-010	No function	
			011-255	Strobe (slow-fast)	

RDM (Remote Device Management):

The LEDJ Spectra Q Series supports RDM communication protocol. RDM supports 2-way traffic in the standard DMX-512 protocol. RDM can control devices, configurations, detect fixtures and allows the changing of DMX address, DMX mode etc. Each RDM compatible fixture can be identified by the built-in unique UID code. To display the UID go to **7:Information** in the menu and the UID will be displayed.

Parameter ID	Discovery command	Set command	Get command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
SUPPORTED_PARAMETERS			*
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
RESET_DEVICE		*	
FACTORY_DEFAULTS		*	

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 from 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

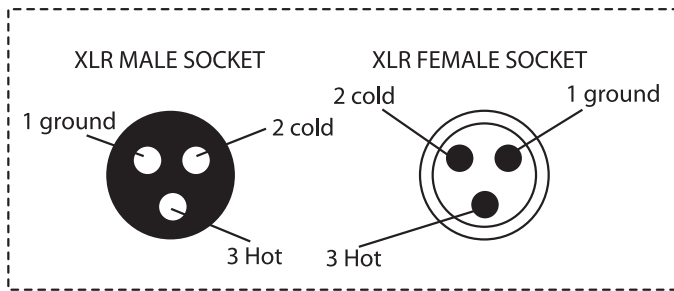
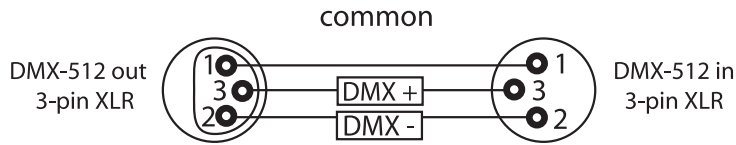
CABL11 – 5m

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.



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.

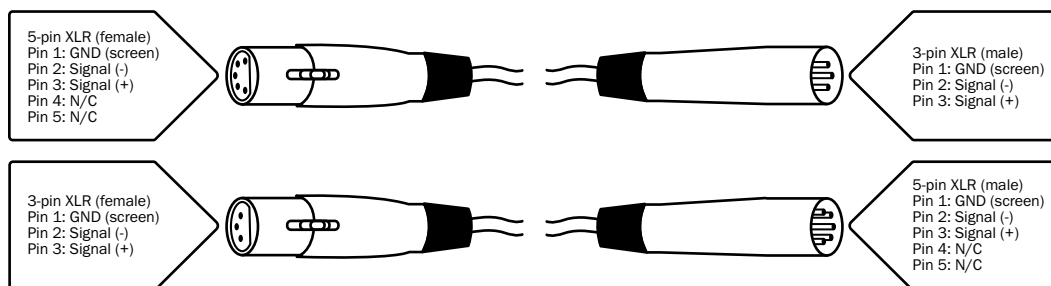
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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.





***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.



LEDj