Spectra Q Series
Exterior Fixtures

User Manual

Order code:

LEDJ586 - Spectra Flood Q6HEX

LEDJ587 - Spectra Flood Q15HEX

LEDJ588 - Spectra Batten Q16HEX

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, 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

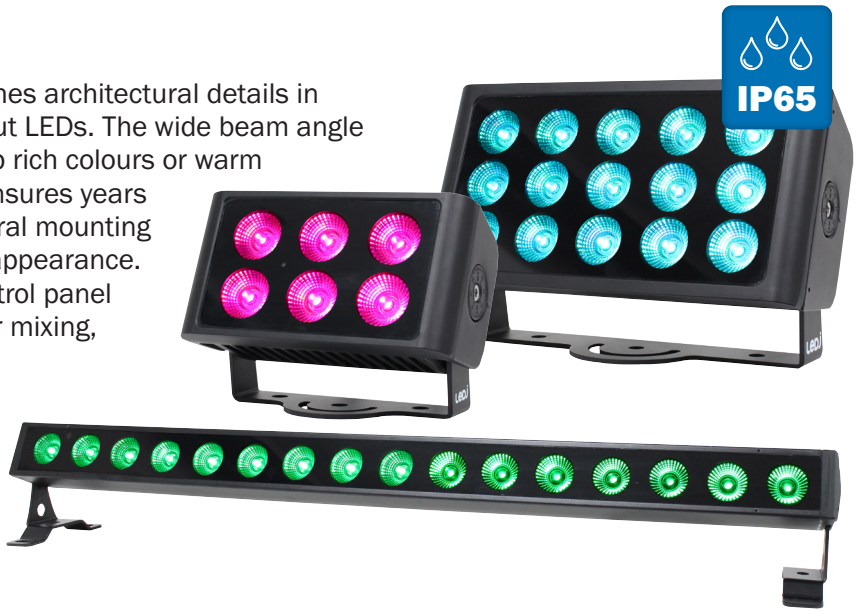
If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

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 HEX Series

The LEDJ IP65 rated Spectra Q HEX series bathes architectural details in constantly changing colours from its high output LEDs. The wide 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 10W six-colour LEDs (RGBWAUV) - LEDJ586
  15 x 10W six-colour LEDs (RGBWAUV) - LEDJ587
  16 x 10W six-colour LEDs (RGBWAUV) - LEDJ588
- Beam angle:
  40° (Q6HEX & Q15HEX)
  20° x 30° (Q16HEX)
- 675 Lux @ 2m (full on) - LEDJ586
  1,405 Lux @ 2m (full on) - LEDJ587
  3,819 Lux @ 2m (full on) - LEDJ588
- 12kHz refresh rate
- DMX channels: 6, 8 or 12 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
- Hydralock power input/output trailing connections
- Hydralock DMX input/output trailing connections

Specifications	Spectra Flood Q6HEX	Spectra Flood Q15HEX	Spectra Batten Q16HEX
Power consumption	42W	84W	129W
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	LEDJ586	LEDJ587	LEDJ588

Q6 - Lux

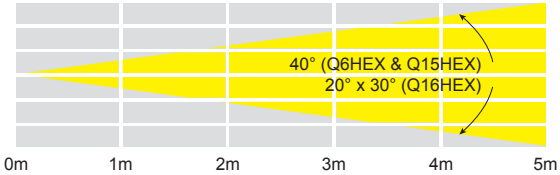
FULL ON	2700	675	300	168	108
R	712	178	79.1	44.5	28.4
G	1204	301	133	75.2	48.1
B	260	65	28.8	16.2	10.4
W	1612	403	179	100	64.4
A	812	203	90.2	50.7	32.4
UV	N/A	N/A	N/A	N/A	N/A

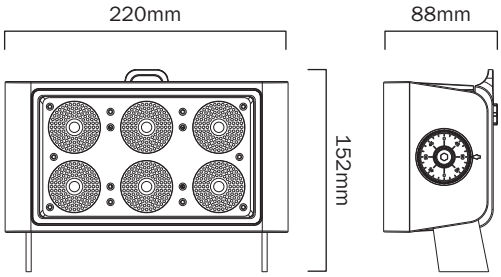
Q15 - Lux

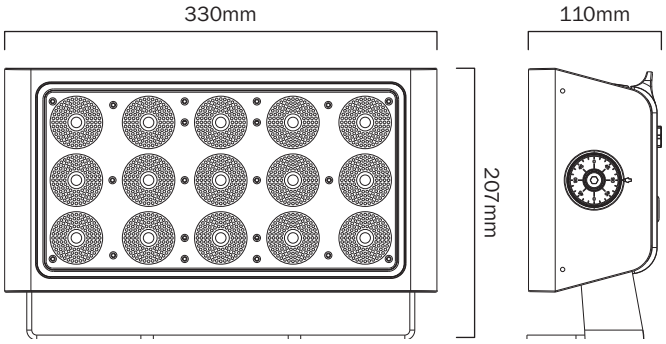
FULL ON	5620	1405	624	351	224
R	1692	423	188	105	67.6
G	2756	689	306	172	110
B	608	152	67.5	38	24.3
W	3740	935	415	233	149
A	1916	479	212	119	76.6
UV	N/A	N/A	N/A	N/A	N/A

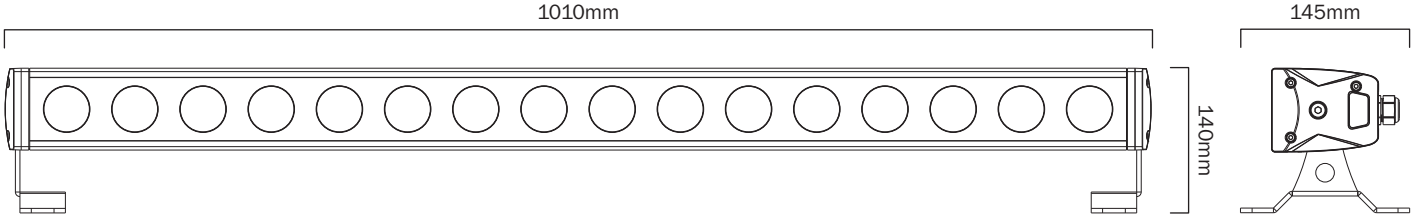
Q16 - Lux

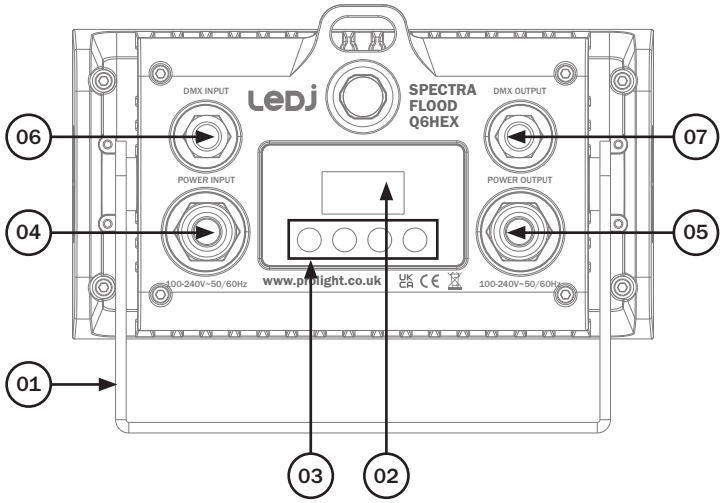
FULL ON	15276	3819	1697	954	611
R	2432	608	270	152	97.2
G	3820	955	424	238	152
B	940	235	104	58.7	37.6
W	6516	1629	724	407	260
A	2348	587	260	146	93.9
UV	N/A	N/A	N/A	N/A	N/A

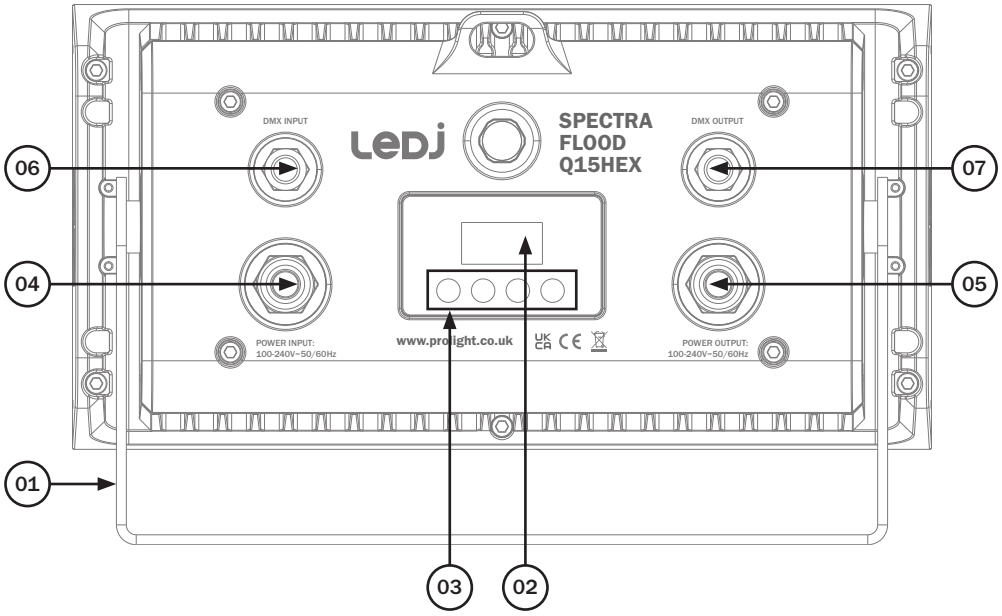












01 - Bracket
02 - OLED display
03 - Function buttons
04 - IP rated power trailing input
05 - IP rated power trailing output
06 - IP rated 3-Pin DMX trailing input
07 - IP rated 3-Pin DMX trailing output

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:	06 (6 channel mode)	DMX Channel Setting
		08 (8 channel mode)	
		12 (12 channel mode)	
2:Dimmer	1) Red	000-255	Manual Dimming Mode
	2) Green	000-255	
	3) Blue	000-255	
	4) White	000-255	
	5) Amber	000-255	
	6) UV	000-255	
3:Auto			Auto Mode
4:Program	1) Mode:	01-16	Built-in Programs
	2) Color: (mode 1)	00-33	
	2) Speed: (mode 2-14)	001-100	
	3) Strobe	00-99	
5:Slave			Slave Mode Setting
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	
		Dimmer	
		Program	
	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
	Work Time:		Fixtures Run Time
	UID:		Fixtures UID

DMX channel modes:

Channel			Value	Function	
06	08	12			
-	1	1	000-255	Master dimmer (0-100%)	
-	2	2	000-010	No function	Linear Strobe
			011-255	Strobe (slow-fast)	
-	-	3	000-010	No function	Random Strobe
			011-255	Strobe (slow-fast)	
-	-	4	000-007		
			008-013	Colour 01	
			014-020	Colour 02	
			021-027	Colour 03	
			028-034	Colour 04	
			035-041	Colour 05	
			042-048	Colour 06	
			049-055	Colour 07	
			056-062	Colour 08	
			063-069	Colour 09	
			070-076	Colour 10	
			077-083	Colour 11	
			084-090	Colour 12	
			091-097	Colour 13	
			098-104	Colour 14	
			105-111	Colour 15	
			112-118	Colour 16	
			119-125	Colour 17	
			126-132	Colour 18	
			133-139	Colour 19	
			140-146	Colour 20	
			147-153	Colour 21	
			154-160	Colour 22	
			161-167	Colour 23	
			168-174	Colour 24	
			175-181	Colour 25	
			182-188	Colour 26	
			189-195	Colour 27	
			196-202	Colour 28	
			203-209	Colour 29	
			210-216	Colour 30	
			217-223	Colour 31	
			224-230	Colour 32	
			231-255	Colour 33	

DMX channel modes (cont.):

		5	000-015	No function	Built-in programs
			016-031	Colour Change 1	
			032-047	Colour Change 2	
			048-063	Colour Change 3	
			064-079	Colour Change 4	
			080-095	Colour Change 5	
			096-111	Colour Change 6	
			112-127	Colour Change 7	
			128-143	Colour Change 8	
			144-159	Colour Fade 1	
			160-175	Colour Fade 2	
			176-191	Colour Fade 3	
			192-207	Colour Fade 4	
			208-223	Colour Fade 5	
			224-239	Colour Fade 6	
			240-255	Colour Fade 7	
		6	000-255	Speed (slow-fast)	
1	3	7	000-255	Red (0-100%)	
2	4	8	000-255	Green (0-100%)	
3	5	9	000-255	Blue (0-100%)	
4	6	10	000-255	White (0-100%)	
5	7	11	000-255	Amber (0-100%)	
6	8	12	000-255	UV (0-100%)	

RDM (Remote Device Management):

The LEDJ Spectra Q HEX 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 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.

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

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.

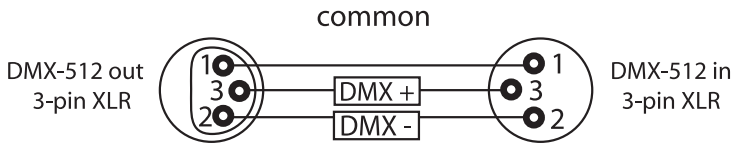
Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers. Please quote:

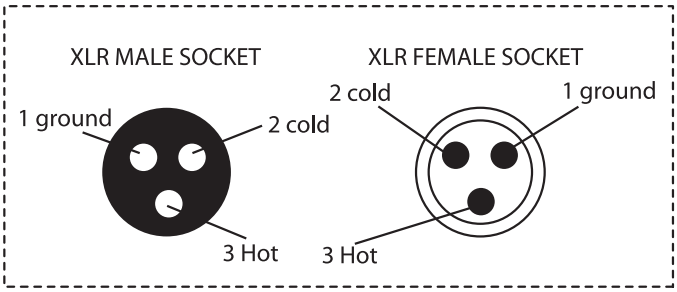
LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
				
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

LEDJ 1m Exterior Power cable	LEDJ 2m Exterior Power cable	LEDJ 5m Exterior Power cable	LEDJ 10m Exterior Power cable	LEDJ Spectra Series End Cap Set
				
Order code: LEDJ146	Order code: LEDJ147	Order code: LEDJ148	Order code: LEDJ149	Order code: LEDJ93

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

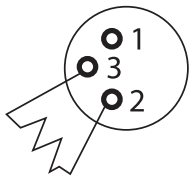
Special note:

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.

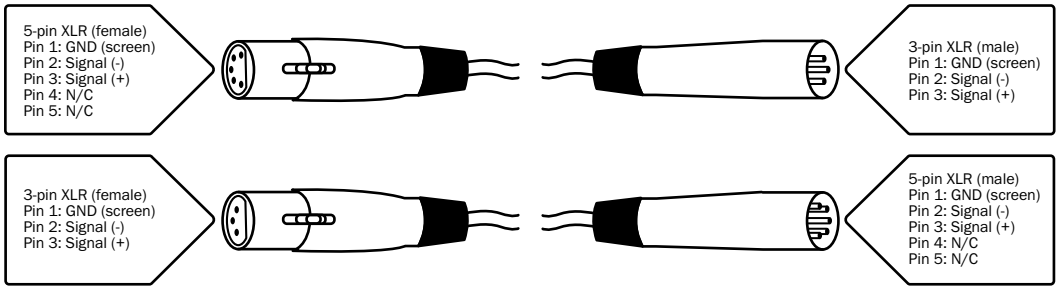
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



Termination reduces signal transmission problems and 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.

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.