Fresco 12 RGBW
Exterior Fixture
User Manual

Order code: LEDJ268

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!

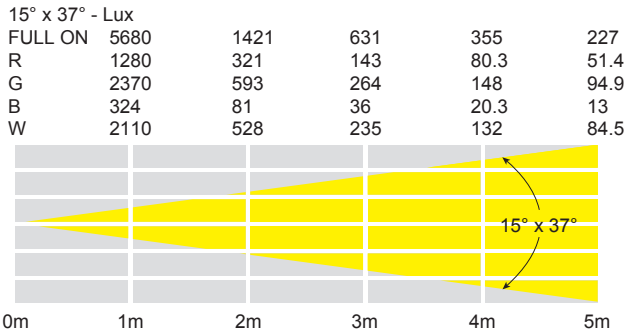
Incorrect installation or use can cause serious damage to people and/or property.

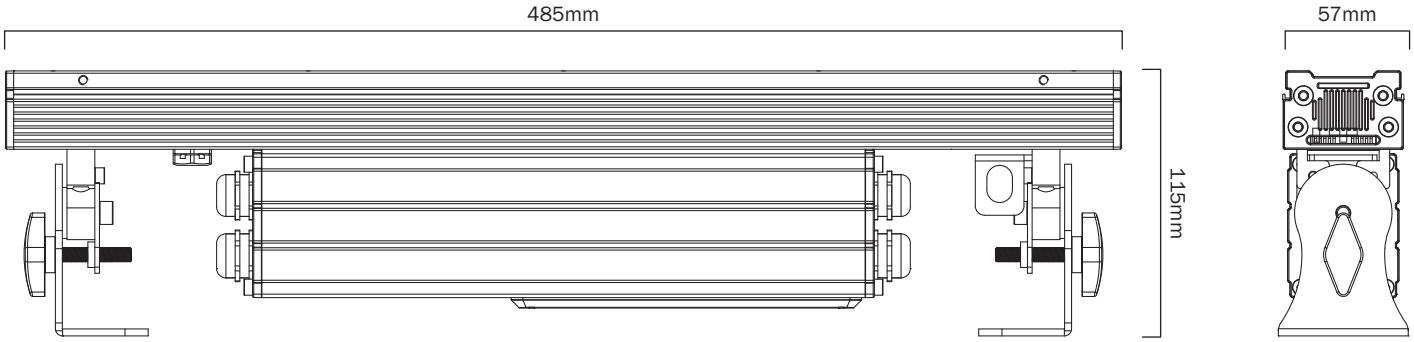
Fresco 12 RGBW

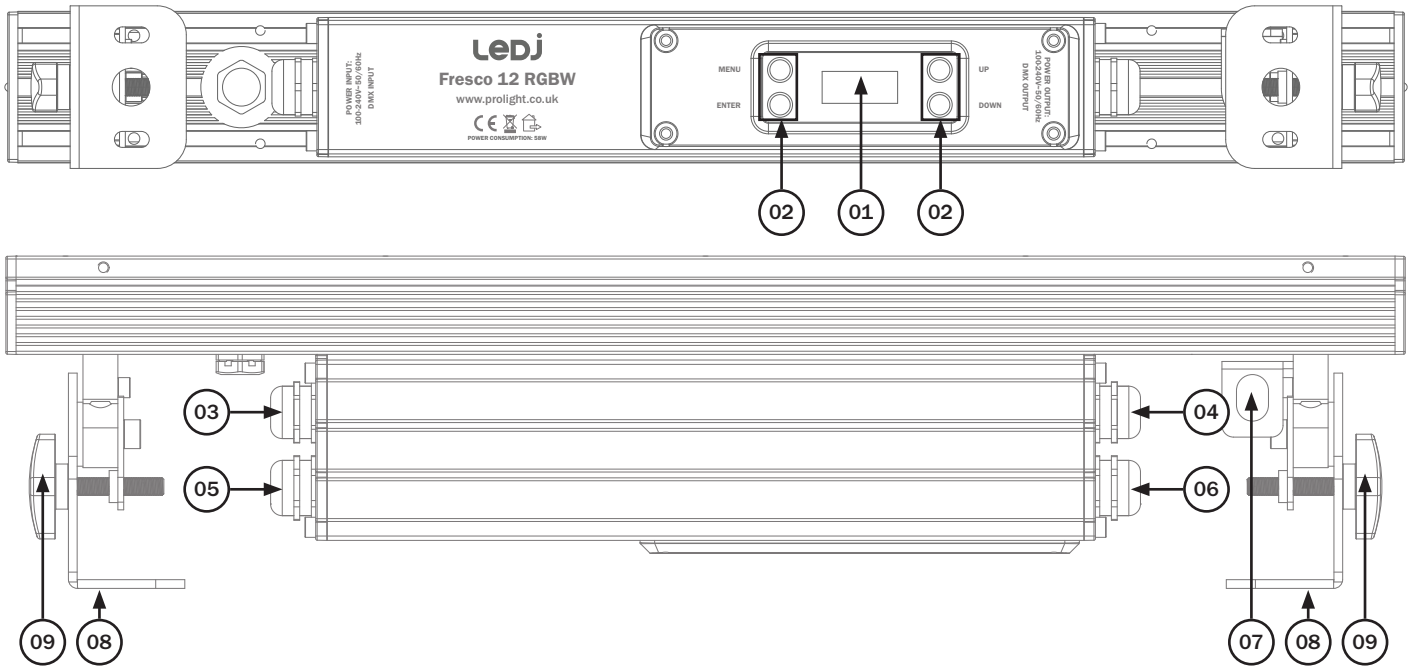
This sleek IP65 batten is perfectly suited for wall washing and cyclorama applications and is manufactured using superior quality components to ensure smooth colour mixing and optimum reliability. Utilising an innovative optical arrangement combined with a specially designed light source, the 15° x 37° beam angle produces an unprecedented chromatic performance. The 4 button backlit LCD display facilitates control over static colours, colour mixing, changes, fades, DMX and master/slave and offers an access lock to prevent unauthorised setting changes. The rugged aluminium exterior ensures years of use in all weather conditions while the integral mounting brackets complete the fixtures sleek, modern appearance.

- 12 x 3W quad-colour LEDs (RGBW)
- Beam angle: 15° x 37°
- 1,421 Lux @ 2m (full on)
- 1.1kHz refresh rate
- DMX channels: 3/4/6/8 or 10 selectable
- Static colour, colour change, colour fade and master/slave modes
- 0 - 100% dimming and variable strobe
- Bracket allows for multiple rigging or floor standing applications
- Supplied eyebrow for uplighting situations to reduce the glare and hide the LEDs
- 4 button menu with LCD display
- IP rated power input/output trailing connections
- IP rated 3-Pin DMX input/output trailing connections
- Convection cooled

Specifications	Fresco 12 RGBW
Power consumption	58W
Power supply	100~240V, 50/60Hz
Fuse	T1A 250V
Dimensions	115 x 485 x 57mm
Weight	3kg
Order code	LEDJ268







01 - LCD display
02 - Function buttons
03 - IP rated 3-Pin DMX trailing input
04 - IP rated 3-Pin DMX trailing output
05 - IP rated power trailing input
06 - IP rated power trailing output
07 - Safety eyes
08 - Hanging brackets
09 - Hanging bracket adjustable knobs

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

Fuse: The Fresco 12 RGBW is fitted with an internal mains (line) fuse. The fuse must only be changed by qualified personnel. Before opening the fixtures housing or changing the fuse, the fixture must be disconnected and isolated from the mains supply. Replacement cartridge fuses must be of the same type and rating (20mm Glass T1A 250V). When closing the fixture please ensure the seal is correctly positioned and free from damage to ensure the fixture is water tight and to prevent water ingress.

IMPORTANT! PLEASE NOTE: The LCD display for this fixture has a locking function which can be enabled via the menu where after 20 seconds of inactivity it will lock. To unlock the menu press the buttons in the following sequence "**UP**", "**DOWN**", "**UP**", "**DOWN**", "**ENTER**".

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
ADDR		**001**-512		DMX Address Setting
CHANNEL MODE		03CH (01 channel mode) **04CH** (04 channel mode) 06CH (06 channel mode) 08CH (08 channel mode) 10CH (10 channel mode)		DMX Channel Setting
Slave Mode				Slave Mode
AUTO RUN		**SP:01**-SP:99	REP:01-REP:99	Auto Mode
01.CFADE	**01.CFADE**	**SP:01**-SP:99	**F:00**-F:99	Colour Fade Mode
	02.METEOR			Meteor Mode
	03.FADE			Colour Fade In/Out Mode
	04.CHANGE			Colour Change Mode
	05.FLOW1			Flow 1 Mode
	06.FLOW2			Flow 2 Mode
	07.FLOW3			Flow 3 Mode
	08.FLOW4			Flow 4 Mode
FLOW INVERT		**OFF** ON		Flow Direction Invert
STATIC COLOR		RED ORANGE YELLOW GREEN CYAN BLUE PURPLE WARM WHITE COOL WHITE		Static Colour Mode
MASTER DIM		000-**255** (000-**100%**)		Master Dimmer
MANUAL DIM		**RED:** GREEN: BLUE: WHITE:	000-**255**	Manual Dimming Mode
SET WHITE BAL	PIXEL 001-002	**RED:** GREEN: BLUE: WHITE:	000-**255**	White Balance Setting
DIMMER CURVE		**LINEAR** SQUARE INV.SQUARE S-CURVE		Dimming Curves Setting

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
DIMMER SPEED		**LED** HALOGEN		Dimming Curves Mode Setting
LOCKING		**OFF** ON		Auto Lock Menu Setting
DMX FAIL		**HOLD** BLACKOUT		DMX Fail Setting
DEFAULT SETTINGS	FACTORY	LOAD	**NO** YES	Default Factory Settings
TEMP INFO		--- C		Fixture Temperature
FIRMWARE		V-.--		Fixture Version

3 channel mode:

Value	CH1	CH2	CH3
000-008	R	No function	Master dimmer (0-100%)
009		Strobe (slow-fast) when CH1 is between 009-149 Speed (slow-fast) when CH1 is between 150-255	
010-019	G		
020-029	B		
030-039	W		
040-049	RG		
050-059	GB		
060-069	BW		
070-079	RW		
080-089	GW		
090-099	RB		
100-109	RGB		
110-119	GBW		
120-129	RGW		
130-139	RBW		
140-149	RGBW		
150-159	CFade		
160-169	Meteor		
170-179	Fade		
180-189	Change		
190-199	Flow1		
200-209	Flow 2		
210-219	Flow 3		
220-229	Flow 4		
230-239	Flow 5		
240-255	Flow 6		

4 channel mode:

Channel	Value	Function
1	000-255	Red dimmer (0-100%)
2	000-255	Green dimmer (0-100%)
3	000-255	Blue dimmer (0-100%)
4	000-255	White dimmer (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Red dimmer (0-100%)
2	000-255	Green dimmer (0-100%)
3	000-255	Blue dimmer (0-100%)
4	000-255	White dimmer (0-100%)
5	000-255	Master dimmer (0-100%)
6	000-004	No function
	005-255	Strobe (slow-fast)

8 channel mode:

Channel	Value	Function	
1	000-255	Red dimmer (0-100%)	Left Half
2	000-255	Green dimmer (0-100%)	
3	000-255	Blue dimmer (0-100%)	
4	000-255	White dimmer (0-100%)	
5	000-255	Red dimmer (0-100%)	Right Half
6	000-255	Green dimmer (0-100%)	
7	000-255	Blue dimmer (0-100%)	
8	000-255	White dimmer (0-100%)	

10 channel mode:

Channel	Value	Function	
1	000-255	Red dimmer (0-100%)	Left Half
2	000-255	Green dimmer (0-100%)	
3	000-255	Blue dimmer (0-100%)	
4	000-255	White dimmer (0-100%)	
5	000-255	Master dimmer (0-100%)	
6	000-255	Red dimmer (0-100%)	Right Half
7	000-255	Green dimmer (0-100%)	
8	000-255	Blue dimmer (0-100%)	
9	000-255	White dimmer (0-100%)	
10	000-255	Master dimmer (0-100%)	

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.

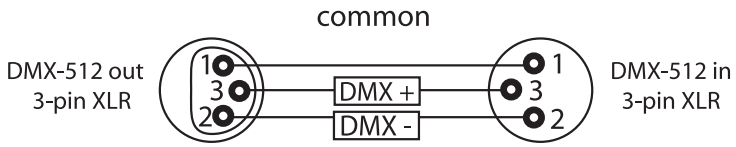
Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers. Please quote:

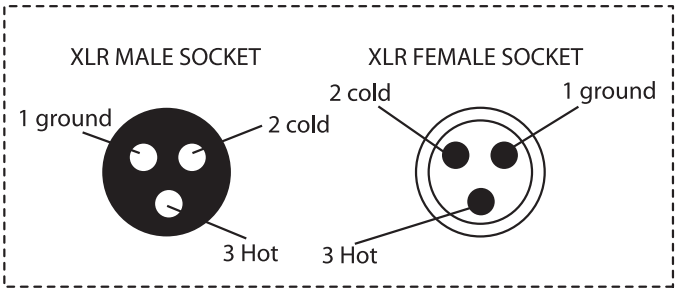
LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
				
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

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

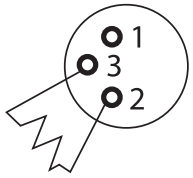
Special note:

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.

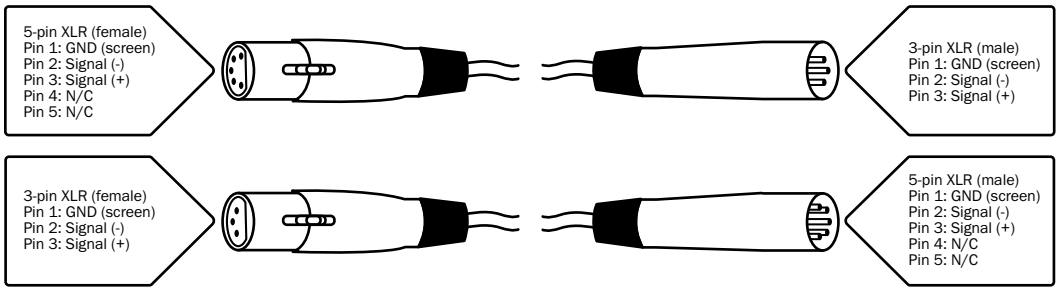
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



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.