Artisan 750 RGBW Profile

User Manual

Order code: LEDJ337

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!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

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.
- Only use the equipment indoors.
- 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 the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or 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, 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.

Please note: These fixtures are intended for stage lighting and entertainment applications only, and are not intended for extended periods of use, including but not limited to house-light, industrial or architectural applications and should only be operated with short duty cycles.

Artisan 750 RGBW Profile

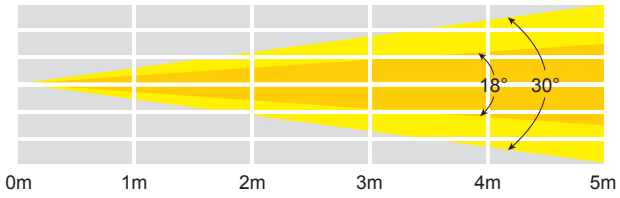
The Artisan 750 RGBW Profile is ideal for schools, churches and stages and makes an ideal replacement for tungsten fixtures. The manual focus facility allows the user to achieve projections that are pin sharp. The fixture is housed in a robust chassis featuring four shutters for precise beam shaping, and a gobo holder is also supplied along with 4 gobos. Control of the unit is facilitated via a 4 button menu and OLED display and an optiona W-DMX compatible transceiver can be added into the back panel.

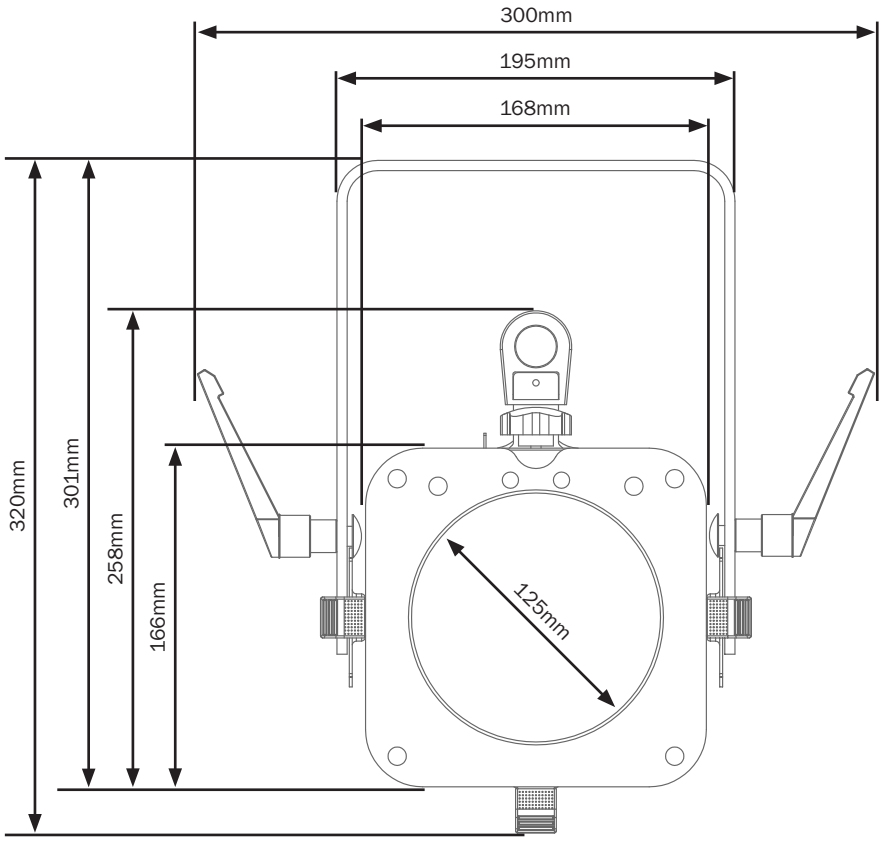
- 1 x 100W quad-colour COB LED (RGBW)
- Manually adjustable beam angle: 18°- 30°
- 18° - 3,937 Lux @ 2m, 30° - 2,307 Lux @ 2m
- Refresh rate: 1.2kHz, 2.4kHz, 4kHz, 6kHz or 10kHz selectable
- Beam framing shutters
- Glass condenser optic system with zoom and focus adjustment
- Gobo slot
- DMX channels: 4/5 or 8 selectable
- Artisan Series W DMX USB compatibility for wireless master/slave or DMX control
- 0-100% dimming
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- Variable strobe
- 4 button menu with OLED display
- PowerTwist input/output
- 5-Pin XLR input/output
- Temperature controlled fan for quiet operation
- Handle on rear panel
- Filter frame included
- Supplied with gobo holder and 4 gobos
- Gobo size: 74.5mmØ, Image size: 63mmØ, Max. thickness: 2mm

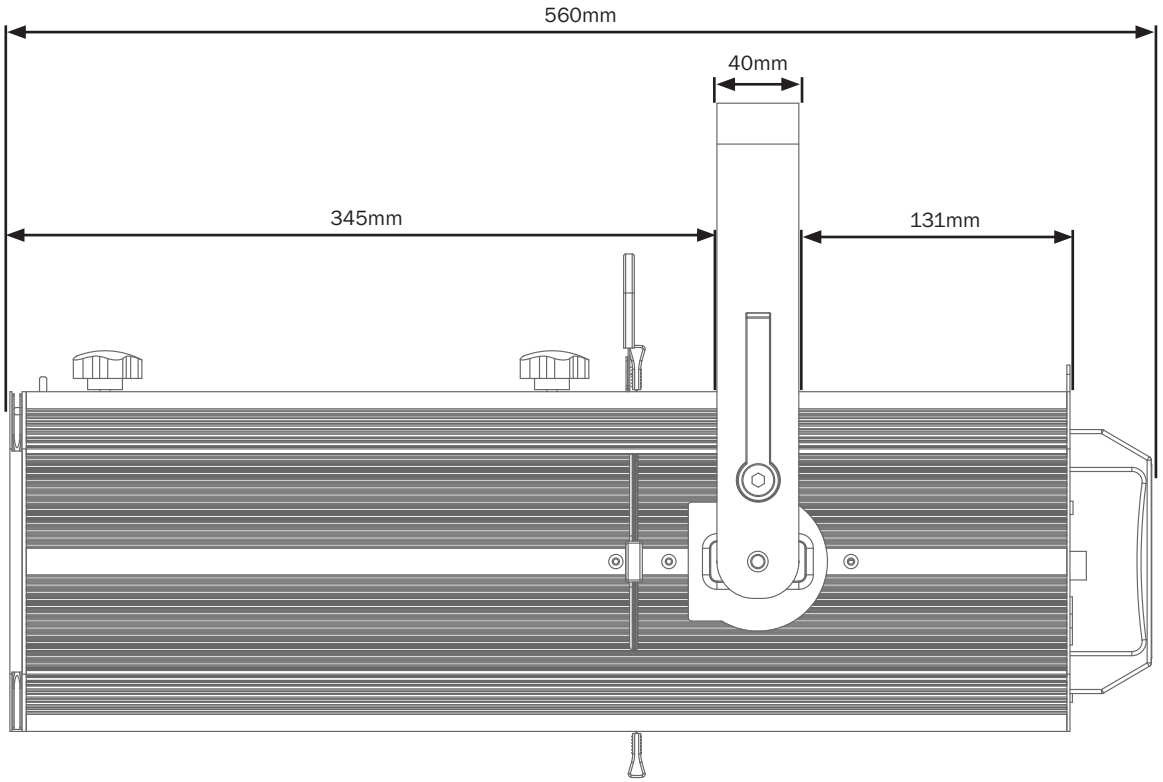
Specifications	Artisan 750 RGBW Profile
Power consumption	110W
Power supply	100~240V, 50/60Hz
Fuse	T3A 250V
Dimensions	356 x 300 x 560mm
Weight	8kg
Order code	LEDJ331

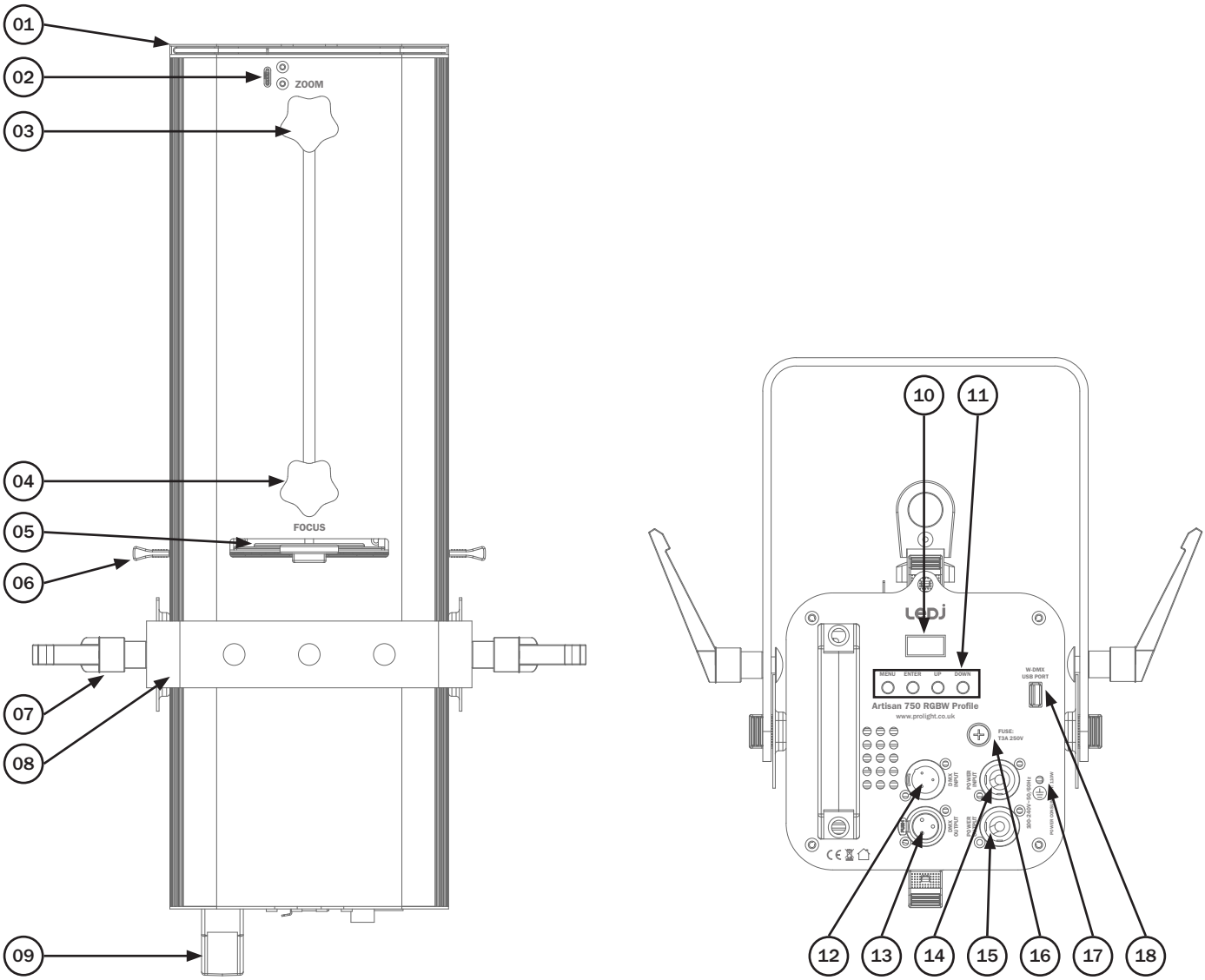
18° - Lux					
FULL ON	15748	3937	1750	984	630
R	4740	1185	527	296	189
G	6460	1615	718	404	258
B	1764	441	196	110	71
W	5320	1330	591	332	213

30° - Lux					
FULL ON	9228	2307	1025	577	369
R	2928	732	325	183	117
G	4016	1004	446	251	161
B	1028	257	114	64	41
W	3208	802	356	200	128




300mm
195mm
168mm
320mm
301mm
258mm
166mm
125mm


560mm
40mm
345mm
131mm

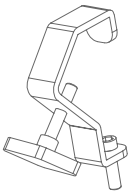


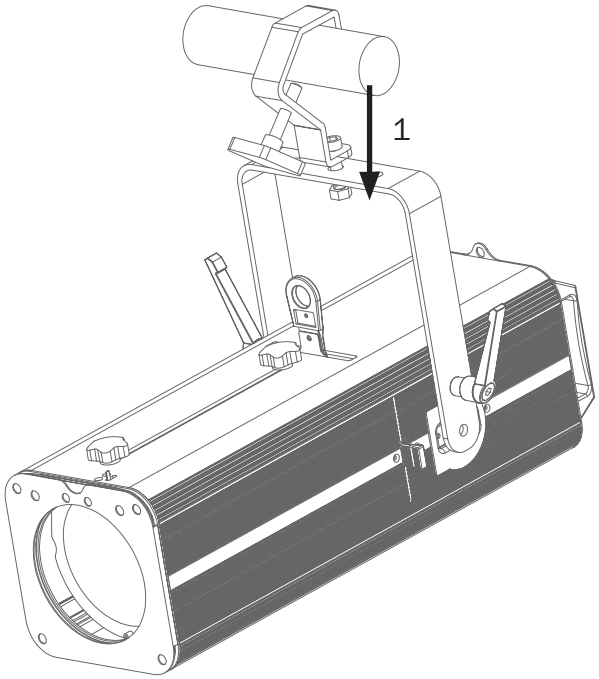
01 - Filter frame
02 - Filter frame release mechanisim
03 - Zoom adjustment
04 - Focus adjustment
05 - Gobo slot
06 - Framing shutters
07 - Hanging bracket adjustable knob
08 - Hanging bracket
09 - Carry handle
10 - OLED display
11 - Function buttons
12 - 5-Pin DMX input
13 - 5-Pin DMX output
14 - PowerTwist input
15 - PowerTwist output
16 - Fuse: T3A 250V
17 - Earth point
18 - Wireless DMX USB input

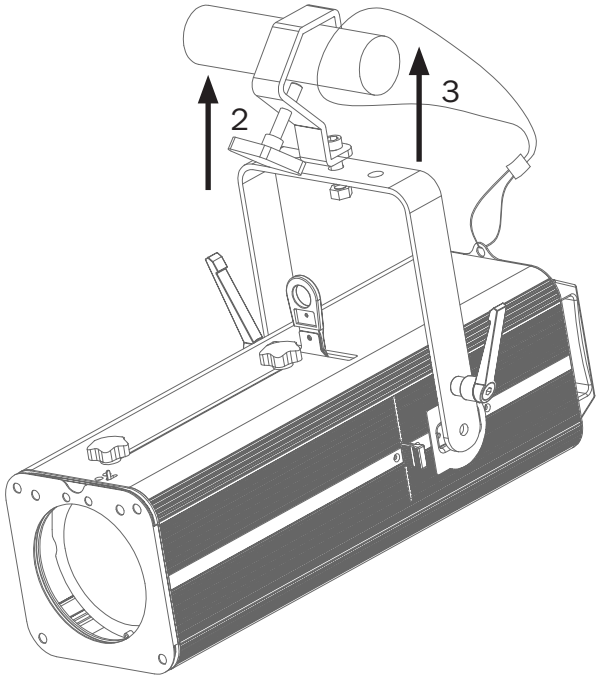
In the box: **1 x fixture,**
1 x filter frame,
1 x gobo holder,
4 x gobos &
1 x power cable

Installation:

1. Fasten the clamp to the bracket with a bolt and lock nut to the unit, ensuring it is secure.
2. Mount the fixture onto your truss system via the clamp and tighten to ensure secure.
3. Pull the safety cable through the safety cable holes located on the top/rear of the fixture and around the truss.







Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)	Secondary Options/Values (Default Settings in BOLD)
DMX Settings	DMX Address	**001**-512	
	DMX Channel Mode	4CH	
		5CH	
		8CH	
	No DMX Status	**Hold Last**	
		Blackout	
		Manual Settings	
		Internal Programs	
Personality	Primary	ON/**OFF**	
	Secondary	ON/**OFF**	
	Dim Modes	**LED**	
		HALOGEN	
	Dim Curve	**Linear**	
		Square	
		Inv.Squa	
		S.Curve	
	Wireless	ON/**OFF**	
	LED Refresh	1200hz, 2400hz, 4000hz, 6000hz, 10000hz	
	Display	Saver Delay	OFF, 1-**10** seconds
		Rotate Display 180°	YES/**NO**
	Factory Restore	YES/**NO**	
Manual	Red	000-255	
	Green	000-255	
	Blue	000-255	
	White	000-255	
	Colour Macros	000-023	
	Strobe	000-255	
	Master Dimmer	000-255	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)	Secondary Options/Values (Default Settings in BOLD)
Internal Programs	Program 0	Speed	001-255
		Fade	000-255
	Program 1	Speed	001-255
		Fade	000-255
	Program 2	Speed	001-255
		Fade	000-255
	Program 3	Speed	001-255
		Fade	000-255
	Program 4	Speed	001-255
		Fade	000-255
	Program 5	Speed	001-255
		Fade	000-255
	Program 6	Speed	001-255
		Fade	000-255
	Program 7	Speed	001-255
		Fade	000-255
	Program 8	Speed	001-255
		Fade	000-255
	Program 9	Speed	001-255
		Fade	000-255
	Program 10	Speed	001-255
		Fade	000-255
	Program 11	Speed	001-255
		Fade	000-255
	Program 12	Speed	001-255
		Fade	000-255
	Program 13	Speed	001-255
		Fade	000-255
Information	LED Temperature	xxx F/ xxx C	
	Software Version	x.xx	
	Fixture Hours	xxxxxxH	

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%)

5 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%)

8 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	Amber dimmer (0-100%)
5	000-255	Master dimmer (0-100%)
6	000-005	No function
	006-008	Colour 1
	009-013	Colour 2
	014-018	Colour 3
	019-023	Colour 4
	024-028	Colour 5
	029-033	Colour 6
	034-038	Colour 7
	039-043	Colour 8
	044-048	Colour 9
	049-053	Colour 10
	054-058	Colour 11
	059-063	Colour 12
	064-068	Colour 13
	069-073	Colour 14
	074-078	Colour 15
	079-083	Colour 16
	084-088	Colour 17
	089-093	Colour 18
	094-098	Colour 19
	099-103	Colour 20
	104-108	Colour 21
	109-113	Colour 22
	114-118	Colour 23
	119-123	Colour 24
	124-128	Colour 25
	129-133	Colour 26
	134-138	Colour 27
	139-143	Colour 28
	144-148	Colour 29
	149-153	Colour 30
	154-158	Colour 31

Channel	Value	Function
6 cont.	159-163	Colour 32
	164-168	Colour 33
	169-173	Colour 34
	174-178	Colour 35
	179-183	Colour 36
	184-188	Colour 37
	189-193	Colour 38
	194-198	Colour 39
	199-203	Colour 40
	204-208	Colour 41
	209-213	Colour 42
	214-218	Colour 43
	219-223	Colour 44
	224-228	Colour 45
	229-233	Colour 46
	234-238	Colour 47
	239-243	Colour 48
	244-248	Colour 49
	249-253	Colour 50
	254-255	Colour 51
7	000-020	No function
	021-040	Linear LED
	041-060	Square LED
	061-080	Inv. Square Law LED
	081-100	S-Curve LED
	101-120	Linear Halogen
	121-140	Square Halogen
	141-160	Inv. Square Law Halogen
	161-180	S-Curve Halogen
	181-255	No function
8	000-020	No function
	021-040	1200Hz
	041-060	2400Hz
	061-080	4000Hz
	081-100	6000Hz
	101-120	10000Hz
	121-255	No function

Wireless operation:

To operate the fixture (sold separately) wirelessly you will need to plug in the W-DMX Compatible USB Transceiver into the USB port on the rear of the fixture. W-DMX should also be set to "**ON**" in the fixtures settings (full instructions can be in the fixtures manual).

If using it in wireless DMX mode a compatible wireless DMX Transmitter (e.g. Wireless Solutions Sweden or Lumen Radio) will need to be connected.

The W-DMX Compatible USB Transceiver features 2 operating protocols as listed below.
The LED on the side of the dongle will illuminate a different colour for each operating protocol.

W-DMX G3 Transmit Protocol - Blue (when transmitting)

W-DMX Receive Protocol - Green (when receiving)

To set the dongle in one of these modes plug the W-DMX Compatible USB Transceiver into the USB port on the rear of the fixture. Press the button on the dongle whilst powering on the unit.
The LED will illuminate white for a brief moment and then change colour. You can then press the button which will scroll through the operating protocols. Once you have selected the chosen protocol, press and hold the button on the dongle for 3 seconds. The LED will illuminate white, then turn blue (transmit mode) or stay white (receive mode). The unit is now set in your chosen protocol.

W-DMX G3 Transmit Protocol:

Once in this protocol the LED will illuminate blue. This indicates the fixture is ready to pair with the receiver(s). Once all the receiver(s) have been set up press the button on the dongle once and the LED will flash blue quickly, this indicates it is attempting to pair with the receivers. Once pairing is complete the LED will illuminate static blue to indicate the fixture is transmitting signal.

To disconnect the transmitting fixture from all receiving fixtures within range when connected, hold the button on the transmitting fixtures dongle down for 3 seconds until the LED illuminates red.
This indicates the wireless memory has been cleared.

W-DMX Receive Protocol:

Once in this protocol the LED will illuminate white. This indicates a connection has not yet been established with the transmitter. Once the transmitter has been set up press the button on the transmitter fixtures dongle once or press the pair button on your wireless transceiver. The LED on the receiving units will flash green quickly, this indicates it is attempting to pair with the transmitter.
Once pairing is complete the LED will illuminate static green to indicate the fixture is receiving signal.

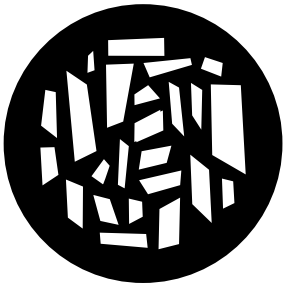
To disconnect the transmitting fixture from all receiving fixtures within range when connected, hold the button on the transmitting fixtures dongle down for 3 seconds until the LED illuminates white.
This indicates the wireless memory has been cleared.

If the indicator on the receiving units flashes red quickly this indicates that the signal from the transmitting fixture has been lost.

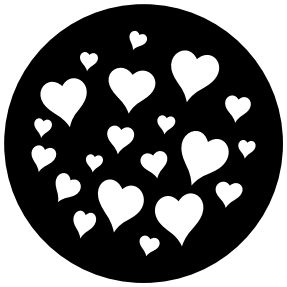
Included gobos:

Gobo 1

Gobo 2



Gobo 3



Gobo 4

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 requires either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.

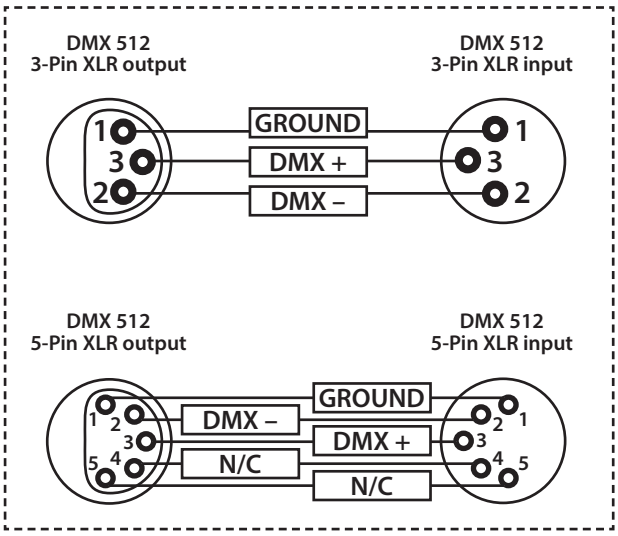
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.				
Please quote:	3-Pin:	**CABL10 – 2m**	**CABL11 – 5m**	**CABL12 – 10m**
	5-Pin:	**CABL185 – 2m**	**CABL187 – 5m**	**CABL188 – 10m**

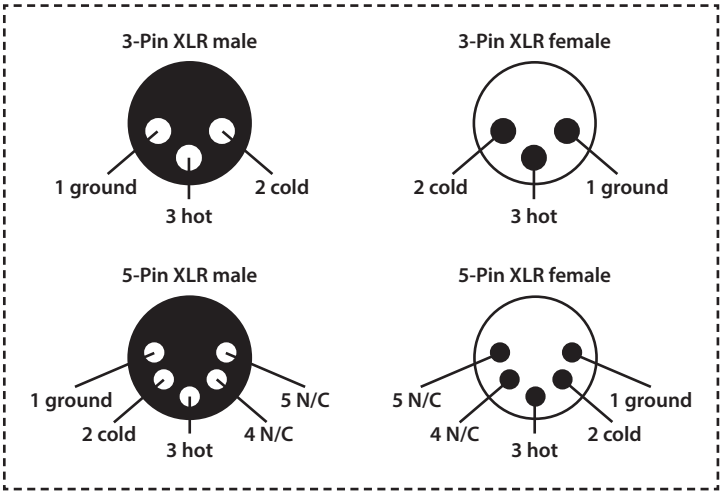
Also remember that DMX cable must be daisy chained and cannot be split.

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.

Pin Configuration	
3-Pin	5-Pin
Pin 1 - Ground	
Pin 2 - Negative	
Pin 3 - Positive	
–	Pin 4 - N/C
–	Pin 5 - N/C

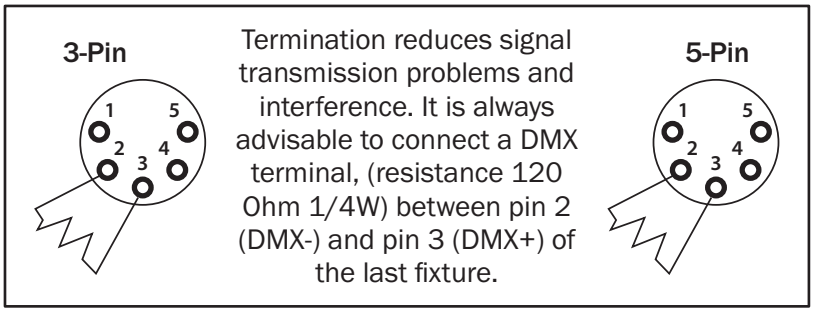




Line termination:

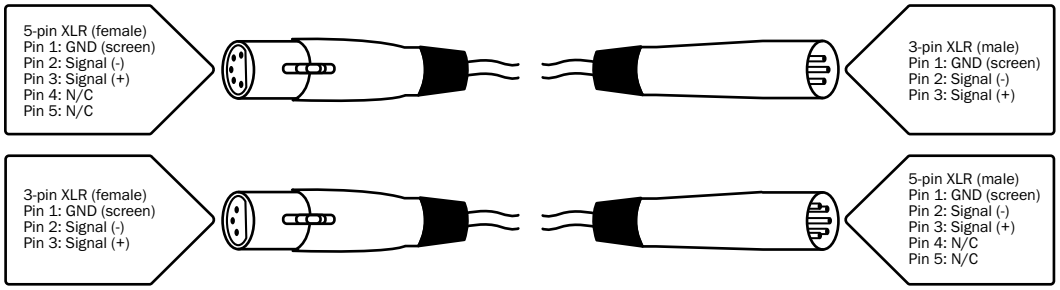
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90,
5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

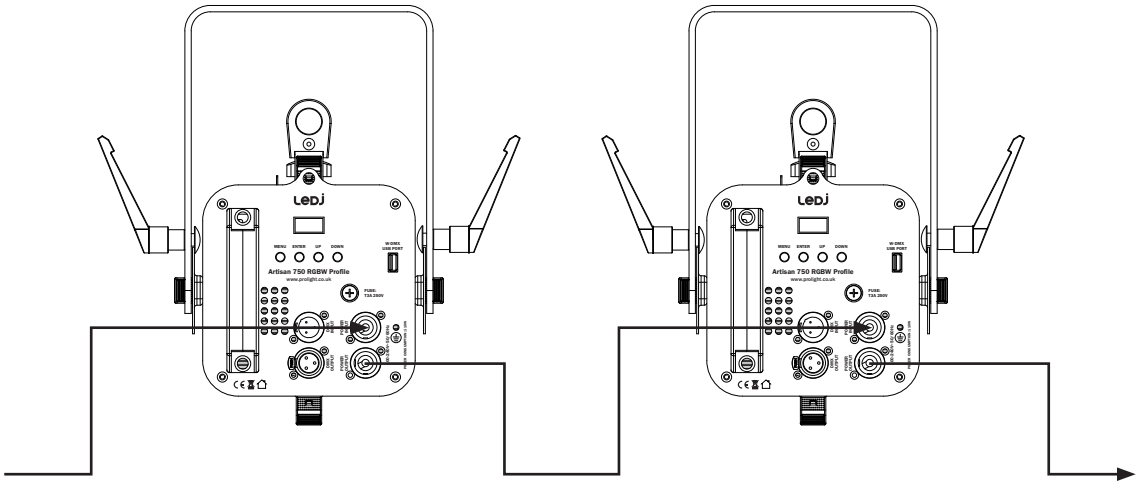
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 14 fixtures @ 240V or 7 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Artisan 750 RGBW Profile as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.



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 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.