

elumen8

Glacial 3000 Low Fogger

User Manual



Order code: ELUM753

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 switch the equipment on and off in short intervals, as this will reduce the system's life.
- For indoors and outdoors use.
- 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 220~240V, 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 Prolight 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 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.
- **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.

Before filling the unit disconnect the mains. Never fill with hot liquids.

Only use high quality, water based smoke fluid recommended by the manufacturer.

Other smoke fluids may cause clogging and void the guarantee.

Always make sure there is sufficient smoke fluid in the tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over heating of the heater.

Operate the unit only after you have familiarised yourself with its functions. Do not permit operation by persons not qualified for operating the unit and always drain the tank and use the original packaging if the unit is to be transported.

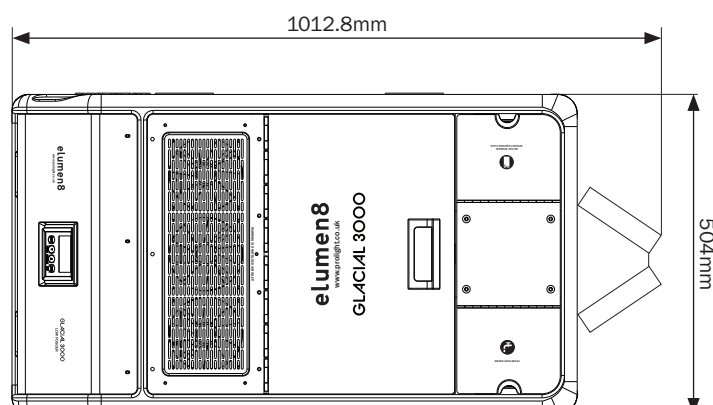
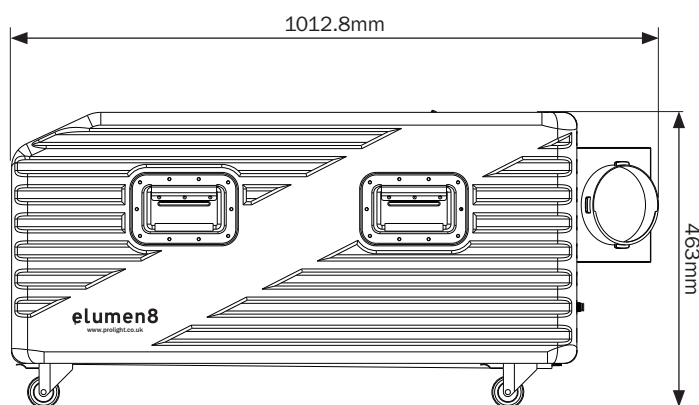
Glacial 3000 Low Fogger

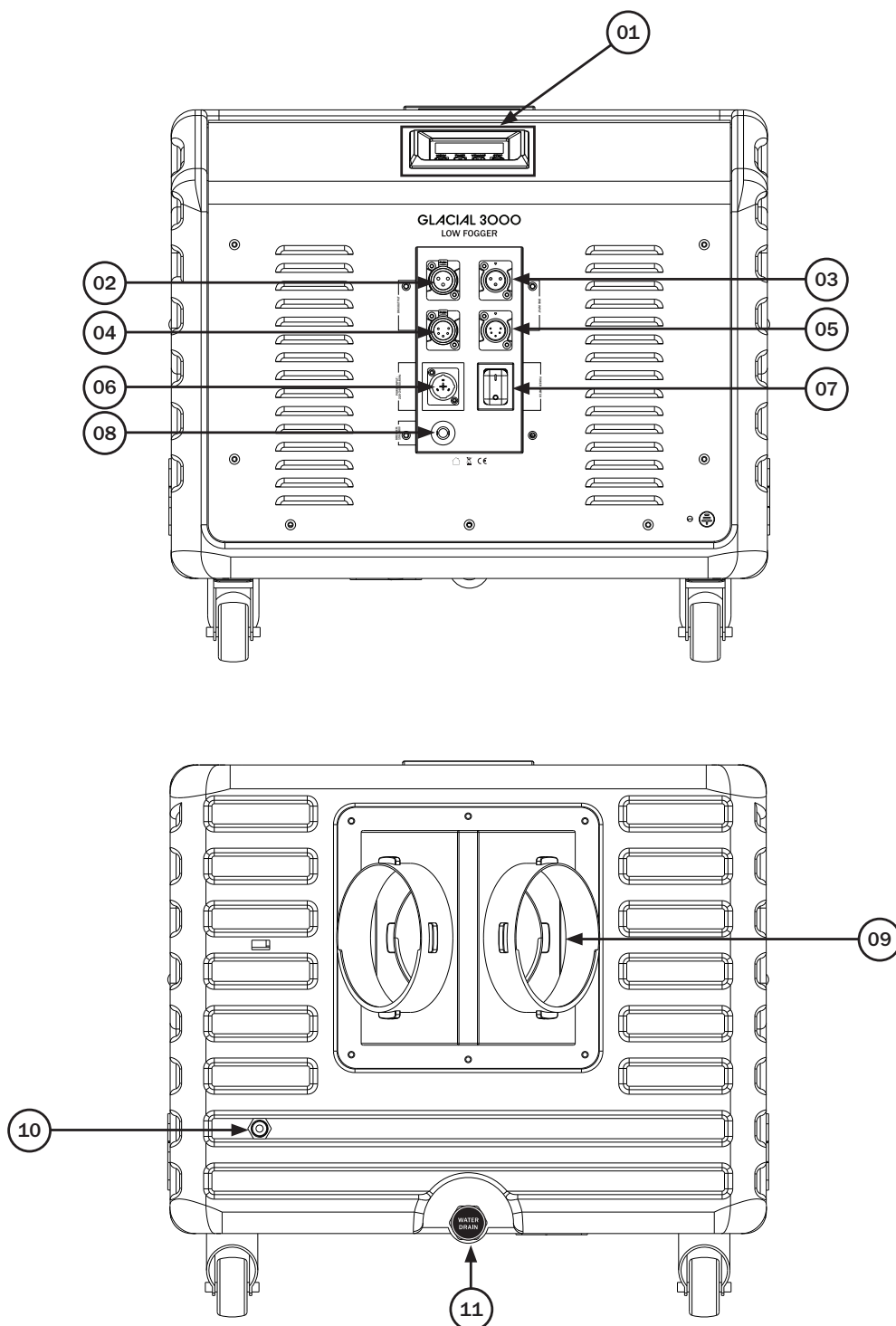
The Elumen8 Glacial 3000 is a low-lying fogger that creates high output ground hugging, cloud-like effects which are ideal for use on large stages, theatres, live events and theme parks. The unit has a fast heat-up time of only 5 minutes and no dry ice or CO2 is needed. With a near silent output, only water and fog fluid is required for a continuous output. Easy transport features include a rugged ABS housing with integral recessed side handles and heavy duty rubber wheels. Control is facilitated via the LCD display or DMX.

- Heater: 2700W
- Output: approx. 20,000 cu.ft/min
- Max coverage: approx. 400m³
- Warm-up time: approx. 5 mins
- Water tank capacity: 34 litres (distilled)
- Fluid tank capacity: 3.5 litres
- Fluid use: approx. 35ml/min (100%)
- DMX channels: 3
- Timer, manual and DMX modes
- 4-button menu with LCD display
- PowerTwist TR1 input
- 3-Pin & 5-Pin XLR input/output
- Wireless remote included
- Supplied with 2 x 3.3m hoses
- Compatible with water-based low fog fluid (FLUI09)



Specifications	Glacial 3000 Low Fogger
Power consumption	2700W
Power supply	220~240V, 50/60Hz
Fuse	15A 250V resettable breaker
Dimensions	463 x 504 x 1013mm
Weight	46kg
Order code	ELUM753





01 - LCD display & function buttons
 02 - 3-Pin DMX output
 03 - 3-Pin DMX input
 04 - 5-Pin DMX output
 05 - 5-Pin DMX input
 06 - PowerTwist TR1 input

07 - Power on/off switch
 08 - Fuse: 15A 250V resettable breaker
 09 - Dual nozzle bracket
 10 - Overflow opening
 11 - Water drain

In the box:
1 x fixture,
1 x power cable,
2 x hose,
2 x output nozzle

Operation:

Place the unit on a level surface.

Always disconnect it from the mains supply before filling as fluid could be spilled.

Fluid replenishment:

Always fill the tank away from the unit to prevent fluid getting inside the main housing.

If fluid should get inside the main housing, disconnect the unit from the mains immediately and consult a technician.

Power the fixture down using the on/off switch on the rear panel and unplug the power cable. Turn the fluid bottle lid counter-clockwise to unscrew and remove the fluid tank from the main housing.

Fill the tank with fluid and place the tank back in the housing. Place the lid on the fluid bottle and turn clockwise to tighten. Plug the power cable back into the unit and power it on using the on/off switch on the rear panel.

Installation:

Install the unit in a well-ventilated area. Use in an insufficiently ventilated room can lead to the condensation of the fog fluid. The resulting slippery surface can cause accidents. Keep a minimum distance of 1m around the unit.

Furthermore do not orientate the output aperture directly in the direction of the audience's eyes. In order to create the best effect, there should be a distance between the unit and the audience of at least 3m.

Only install the fog machine on fire resistant, scratch resistant and water resistant surfaces.



DANGER OF FIRE!

When installing the unit, make sure there is no highly flammable material (decoration articles etc) within a minimum distance of 1m



DANGER TO LIFE!

Disconnect from the mains before starting maintenance



Only use quality fog fluids recommended by your dealer. You must not use substances which are classified as 'DANGEROUS WORKING MATERIALS' or 'FLAMMABLE FLUIDS'.

**Operation:**

On startup the LCD display will show '**Ready 2 Low Fog**', which means the unit is ready for use.

Fog output mode:

Press the button on the unit to display '**Fog output**', you can now adjust the fog output from 1% to 100% by using the and buttons.

Press the button to confirm the settings.

Fan speed mode:

Press the button on the unit to display '**Fan speed**', you can now adjust the speed from 1% to 100% by using the and buttons.

Press the button to confirm the settings.

Humidity mode:

Press the button on the unit to display '**Humidity**', you can now select humidity output option: 'Off', '25%', '50%', '75%', or '100%' by using the and buttons.

Press the button to confirm the settings.

Timer mode:

Press the button on the unit to display '**Timer Interval**', you can now adjust the interval time from 5s to 600s by using the and buttons.

Press the button to display '**Timer Duration**', you can now adjust the output time from 5s to 300s by using the and buttons.

Press the button to confirm the settings.

DMX mode:

Press the **MENU** button on the unit to display '**DMX512 Address:**', you can now adjust the DMX address between 1 and 512 by using the **▲** and **▼** buttons.

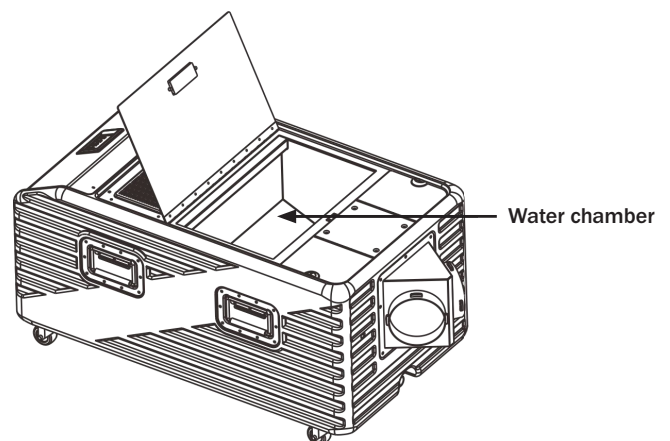
Press the **ENTER** button to confirm the settings. You can then connect the DMX controller, the display will show: '**DMX512 Address:**'.

DMX channel modes:

Channel	Value	Function
CH1	000-010	No function
	011-255	Fog output (0-100%)
CH2	000-010	No function
	011-255	Fan Speed (1-100%)
CH3	000-010	No function
	011-062	Humidity (0-25%)
	063-122	Humidity (25-50%)
	123-183	Humidity (50-75%)
	184-255	Humidity (75-100%)

Low water protection:

When it is detected the water in the chamber is low the following message will be shown on the display; '**Water Level Low Refill Water**'. The unit can still run for approximately another 10 minutes with the water remaining in the chamber but we recommend refilling straight away, either via the chamber via the top of the unit or the auto-refill. Once the unit has enough water again the unit warning will clear automatically.



Please note:

- 1) The valve in the bottom of the water chamber should not be unscrewed!
- 2) The water chamber drains through to a separate chamber underneath which has a capacity of 34 litres. The visible water chamber will need filling up multiple times to ensure a sufficient amount of fluid is in the unit.

Auto Filling:

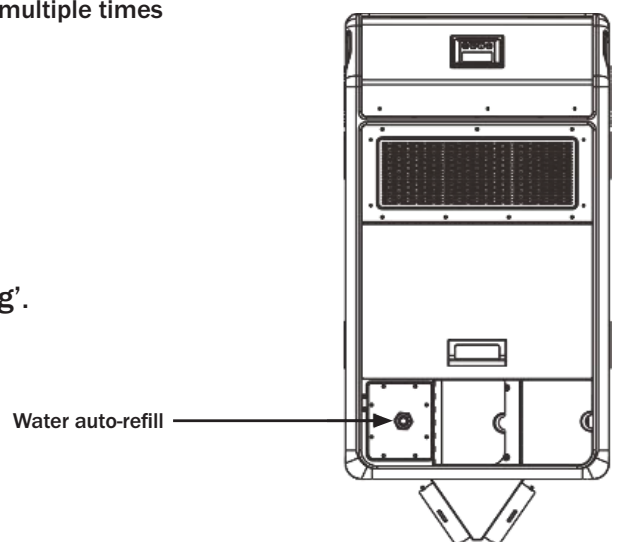
This unit features a water auto-refill function.

Connect a water supply to the inlet shown in the diagram below and turn this function to '**ON**'.

Press the **MENU** button on the unit to display '**Auto Filling**'.

Use the **▲** and **▼** arrow buttons to select '**ON**' or '**OFF**' for the Auto Filling settings.

Press the **ENTER** button to confirm the settings.



Fluid protection setting:

The unit uses a software based fluid sensor to detect when there is no fluid to ensure the pump doesn't get damaged. Turn on the '**Fluid Sensor**' to activate no fluid protection.

Press the  button on the unit to display '**Fluid Sensor**'. Use the  and  arrow buttons to select '**ON**' or '**OFF**' for the fluid protection settings.

Press the  button to confirm the settings.

When the '**Fluid Sensor**' is set to '**ON**', the no fluid protection will be activated. When it is detected the machine has no fluid inside for 90 seconds, the pump will be shut off and the following message will be shown on the display; '**Fog Fluid Low Refill**'. Refill the fog fluid and follow the below instructions to clear the warning.

Clear 'Fog Fluid Low Refill' Warning:

Manual mode - Once the unit has been refilled of fluid press the  button first and then press the  button. 

DMX mode - Bring channel 1 to value 000 and hold for 3 seconds, bring back up to 255 to let the machine run fluid through the pump again.

The warning will now disappear once enough fluid has pumped through.

Auto mode:

If the unit is powered off whilst in manual mode from the display or wireless remote, this setting will allow the unit to restart in the same operating mode once re-powered.

Press the  button on the unit to display '**Auto Run Last Settings**'. Use the  and  arrow buttons to select '**ON**' or '**OFF**' for the Auto Mode settings.

Press the  button to confirm the settings.

Error Codes:

When the unit is powered on the unit will automatically perform a full reset of all sensors. If there is a problem with any of the sensors the below errors will be displayed.

Error Code	Potential cause	Solution
No fluid	No fluid	Refill fluid
	Fluid pump error	Contact Prolight service
Low water	Low water	Refill water
	Water pump error	Contact Prolight service
Heat failure	Heat block failure or temperature sensor error	Contact Prolight service

Cleaning and maintenance:

We recommend a frequent cleaning of the unit. Make sure the machine has cooled before cleaning. Please use a soft lint-free and moistened cloth. Remove dust from air vents using an air compressor, vacuum or soft brush. Never use alcohol or solvents! Clean the output nozzle after each use to remove fluid residues and water vapour.

To avoid the inside pipes becoming blocked we recommend running a solution through the unit every 40 hours. The solution should be made up of 35% vinegar and 65% distilled water and should be fogged through the system 10-15 times.

To do this in the menu go to Fluid Sensor settings and turn fluid protection OFF (this will allow the machine to be run with a small amount of fluid).

Power the fixture down using the on/off switch on the rear panel and unplug the power cable.

Turn the fluid bottle lid counter-clockwise to unscrew and remove the fluid tank from the main housing.

Empty the tank of any remaining fluid and fill the tank with the vinegar and distilled water solution.

Place the tank back in the housing. Place the lid on the fluid bottle and turn clockwise to tighten. Plug the power cable back into the unit and power it on using the on/off switch on the rear panel. Allow the unit to heat up and run the machine in a well ventilated area until the tank is empty of solution. DO NOT allow the pump to run dry. Ensure the Fluid Sensor setting is set back to ON and power the fixture down using the on/off switch on the rear panel and unplug

the power cable. Turn the fluid bottle lid counter-clockwise to unscrew and remove the fluid tank from the main housing. Empty the tank of any remaining solution and fill the tank with fluid. Place the tank back in the housing. Place the lid on the fluid bottle and turn clockwise to tighten. Plug the power cable back into the unit and power it on using the on/off switch on the rear panel. Allow the unit to heat up and run the machine briefly to clear any remaining solution from the pump/heater.

The fluids we recommend are non-hazardous to the environment and can be disposed of via the sewage system.

This product contains no user-serviceable parts. All maintenance and service operations must be carried out by authorised dealers only.

The Glacial 3000 must be FULLY drained prior to transport – to do this, use the water drain on the front of the unit and tilt the unit forwards to ensure any remaining water is fully drained from the unit.

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 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.

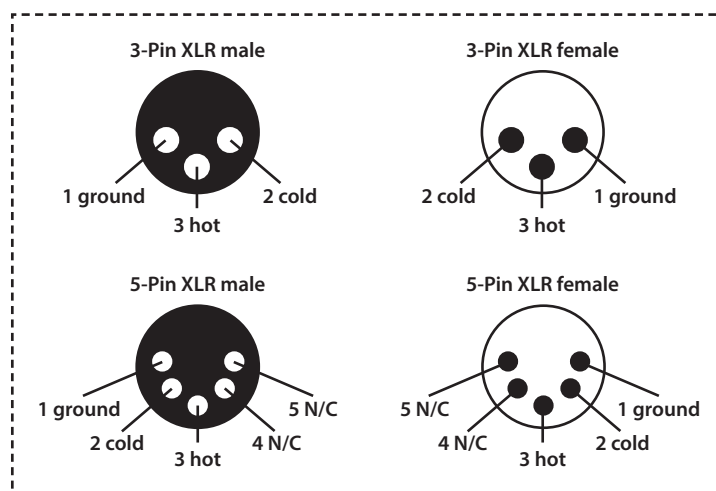
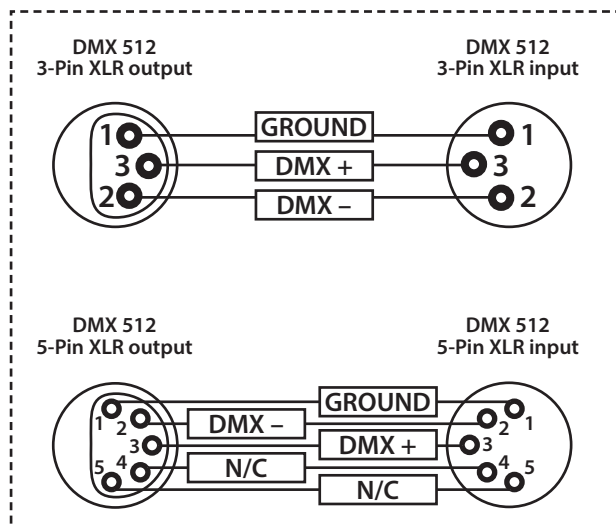
Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

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



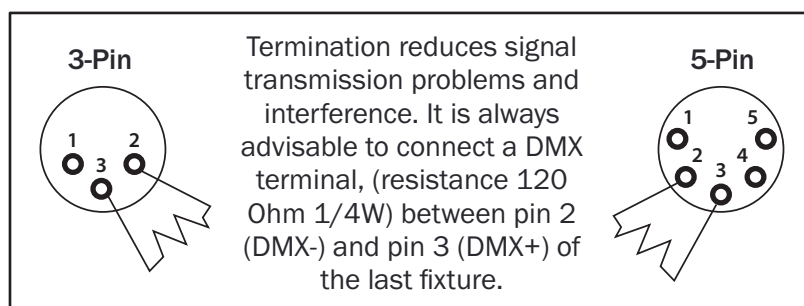
Line termination:

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.

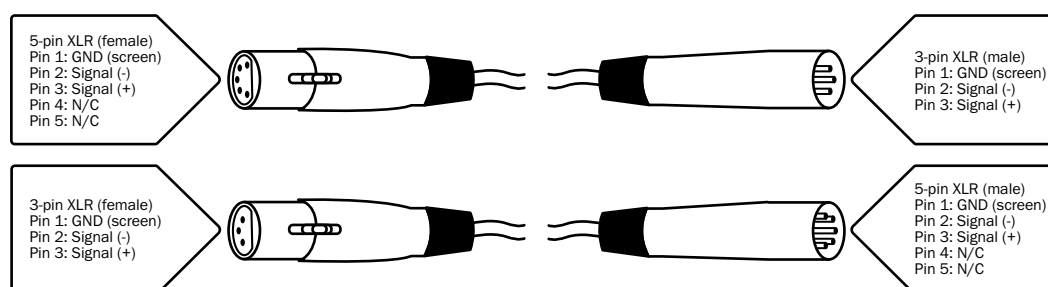
(3-pin - Order ref: CABL90,

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.





***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.

