

elumen8

Jet Wave

User Manual



Order code: ELUM751

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.
- 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 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:** Two years 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.

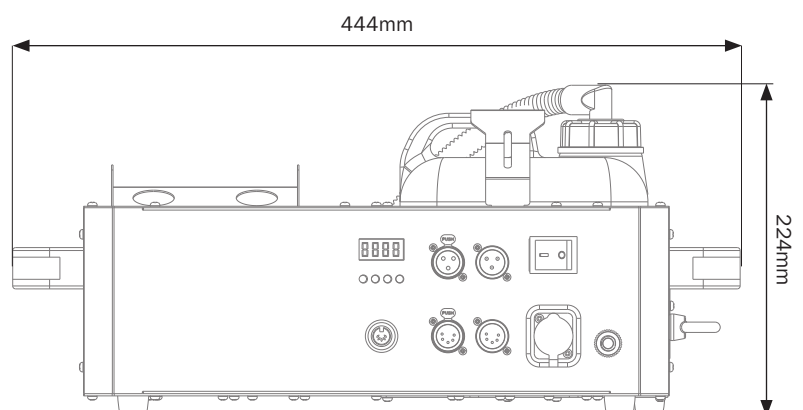
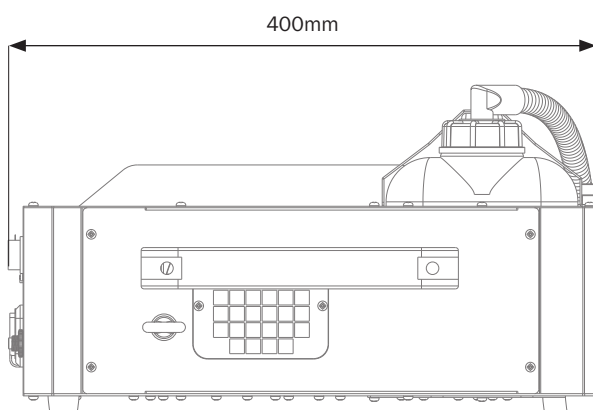
Jet Wave

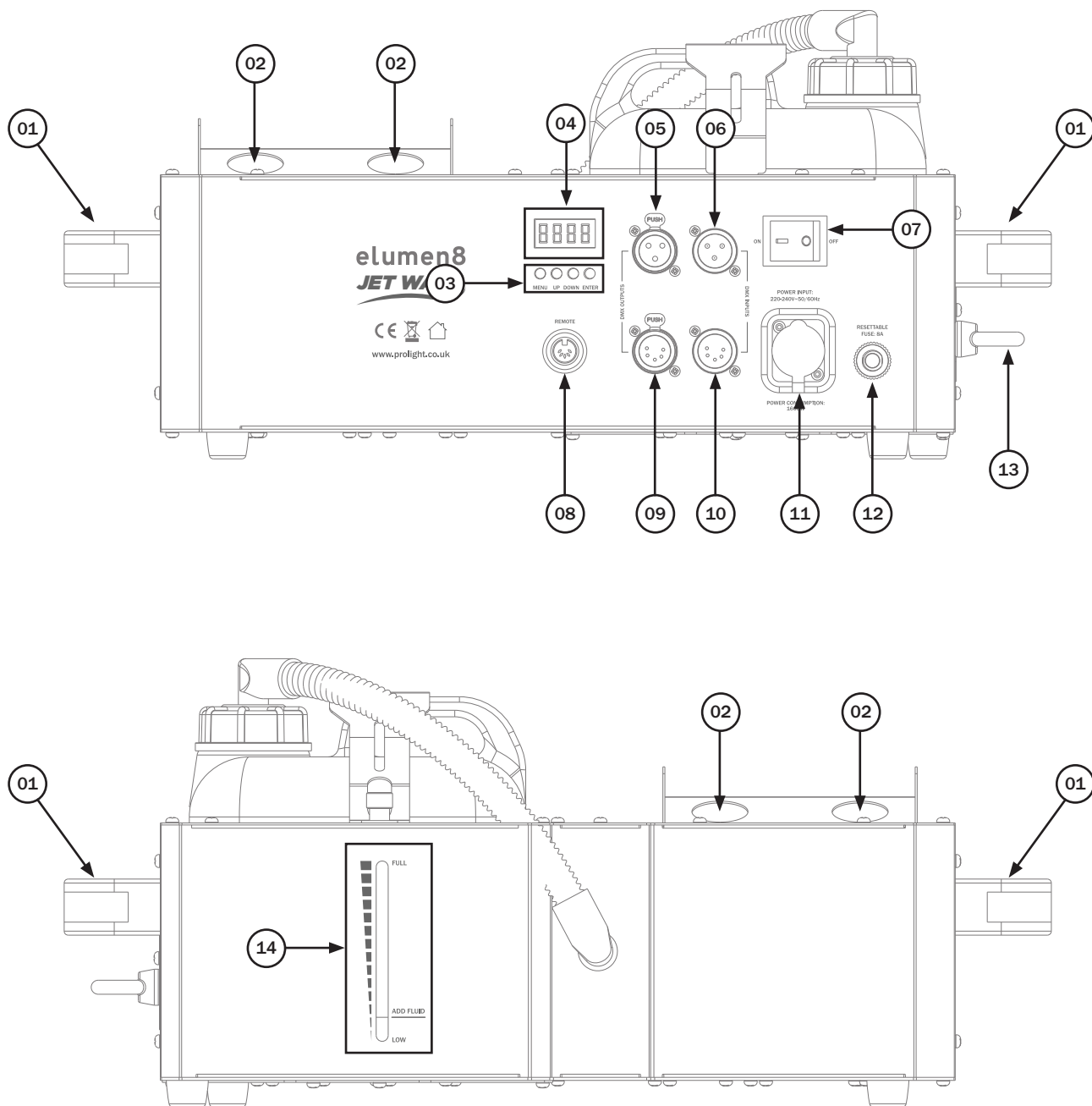
The Elumen8 Jetwave is a premium vertical fog machine engineered to create stunning pyrotechnic-style effects without the risks of fire or CO₂. Equipped with eight powerful 10W RGBAUUV LEDs, it blasts vibrant, illuminated fog plumes up to 7–8 metres high, delivering up to 32,000 cu.ft per minute. A motorised nozzle provides smooth sweeping movement, while the 45° tilt and 50° beam angle unlock bold creative possibilities. With 16-channel DMX control, wireless remote, and both 3/5-Pin DMX in/out, the Jetwave integrates effortlessly into professional lighting rigs. Quick-release omega clamps ensure fast, secure mounting to truss systems.

- 8 x 10W RGBAUUV LEDs
- 1600W heater
- Output: approx. 32,000 cu.ft/min
- Max height: approx. 7–8m
- Max burst: approx. 7s (100%)
- Warm-up time: approx. 4 mins
- Tank capacity: 3L
- Fluid use: approx. 133ml/min (100%)
- DMX channels: 16
- Immediate-stop technology
- Dual fluid bottle orientation for floor/truss use

- Quick release omega clamps included
- Square hole spacing allows flexible clamp orientation
- 4-button menu with LED display
- PowerTwist TR1 input
- 3-Pin & 5-Pin XLR input/output
- Wireless remote included
- Compatible with water-based fog fluid

Specifications	
Power consumption	160W
Power supply	220~240V, 50/60Hz
Fuse	8A 250V resettable breaker
Dimensions	224 x 400 x 444mm
Weight	11kg
Order code	ELUM751

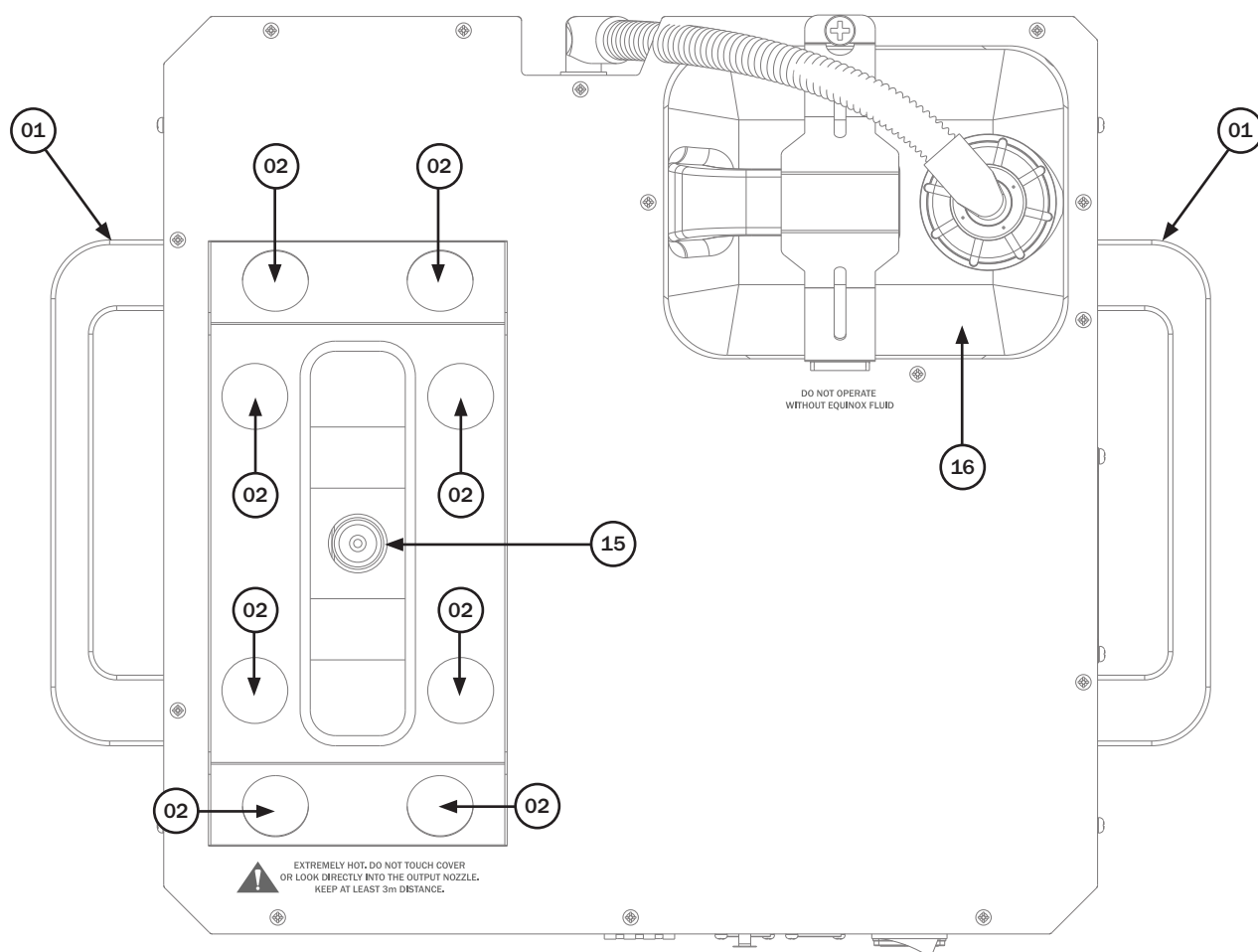




- 01 - Carry handle
- 02 - LED
- 03 - Function buttons
- 04 - LCD display
- 05 - 3-Pin DMX output
- 06 - 3-Pin DMX input
- 07 - Power on/off switch

- 08 - Wireless remote input
- 09 - 5-Pin DMX output
- 10 - 5-Pin DMX input
- 11 - PowerTwist TR1 input
- 12 - Fuse: 8A 250V resettable breaker
- 13 - Safety eye
- 14 - Fluid level

In the box:
1 x fixture,
1 x power cable,
1 x wireless remote,
1 x remote receiver &
2 x Omega clamps



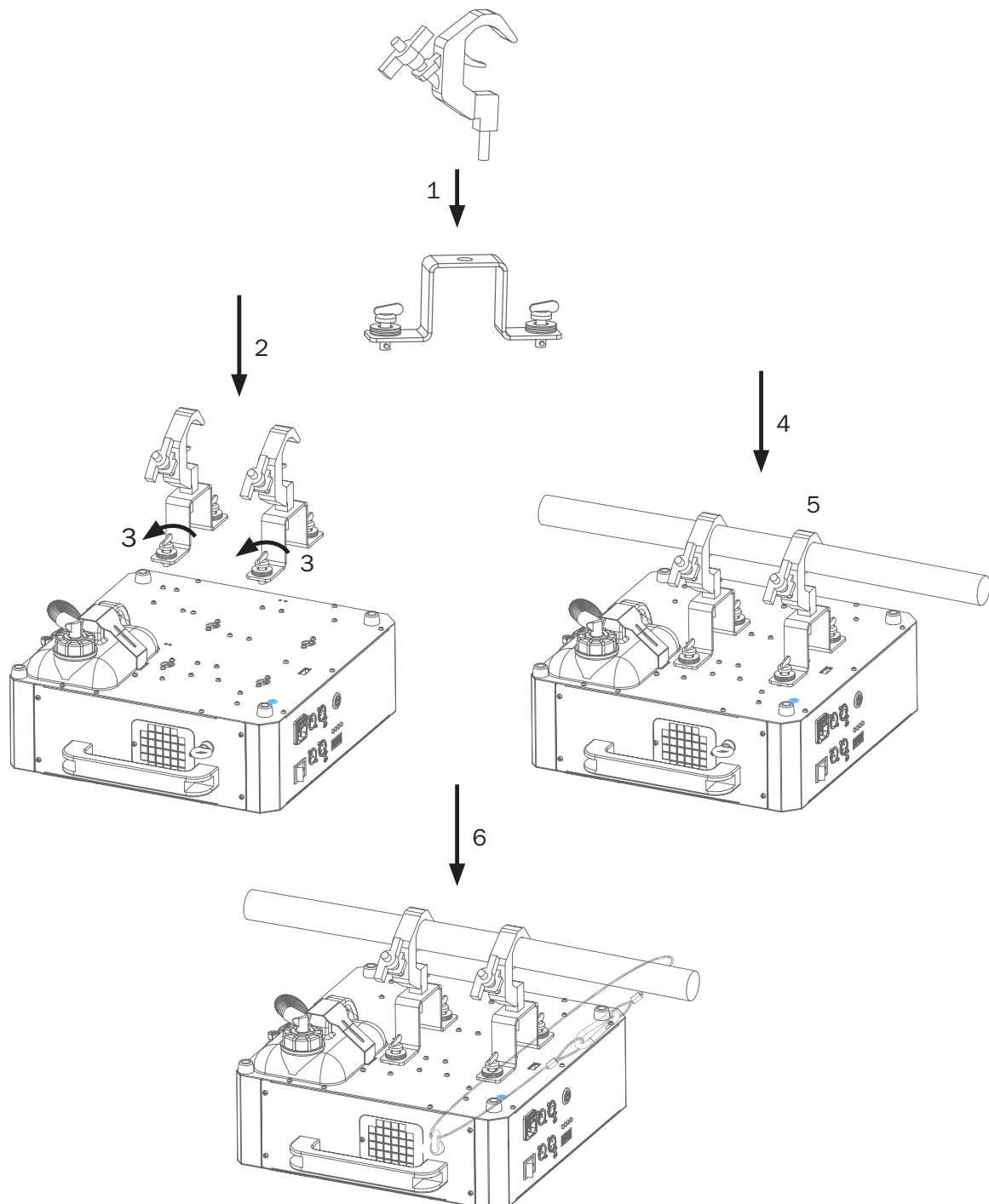
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- 15 - Output nozzle
- 16 - Fluid tank

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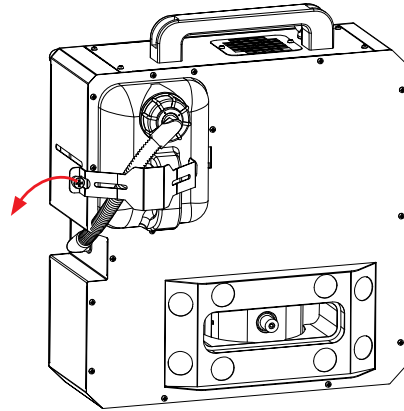
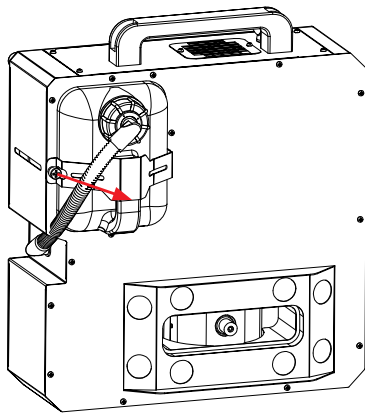
Installation:

1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.
2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.
3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.
4. Mount the fixture onto your truss system via the clamps and tighten to ensure secure.
5. Pull the safety cable through the safety cable holes located on the metal base plate on the underside of the fixture and around the truss.

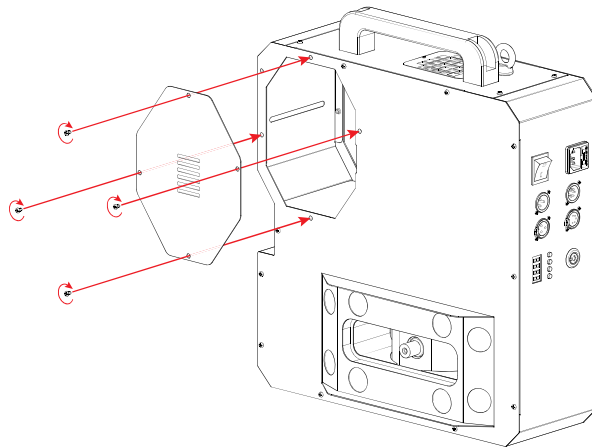
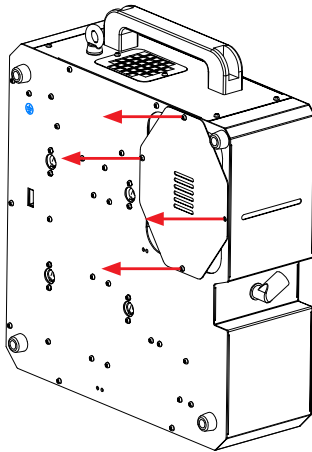


Inverting the Tank:

To mount the Jet Wave in a position where the fluid tank would normally not be upright, it will be necessary to invert the tank orientation.

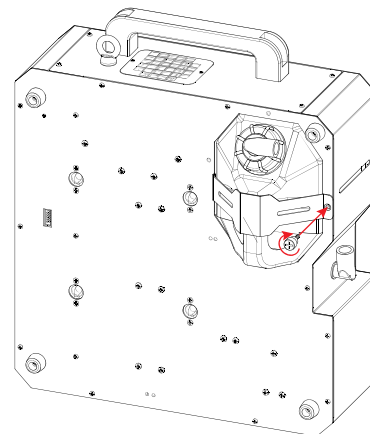
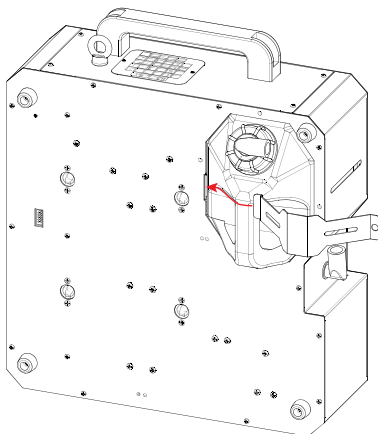


1. Remove the thumbscrew securing the fluid tank bracket, slide the bracket out and place it to the side. Remove the fluid tank and set it to the side.



2. Remove the tank base plate by removing four screws.

3. Install it on the opposite side with the same four screws.



5. Insert the fluid tank, the fluid tank bracket and secure it with the thumbscrew.

Operation:

Place the unit on a level surface.

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

Maximum duty cycle is 7 seconds on then 30 seconds off.

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.

Transportation:

Always carry or transport the machine upright to prevent fluid leaking.



DANGER OF FIRE!

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

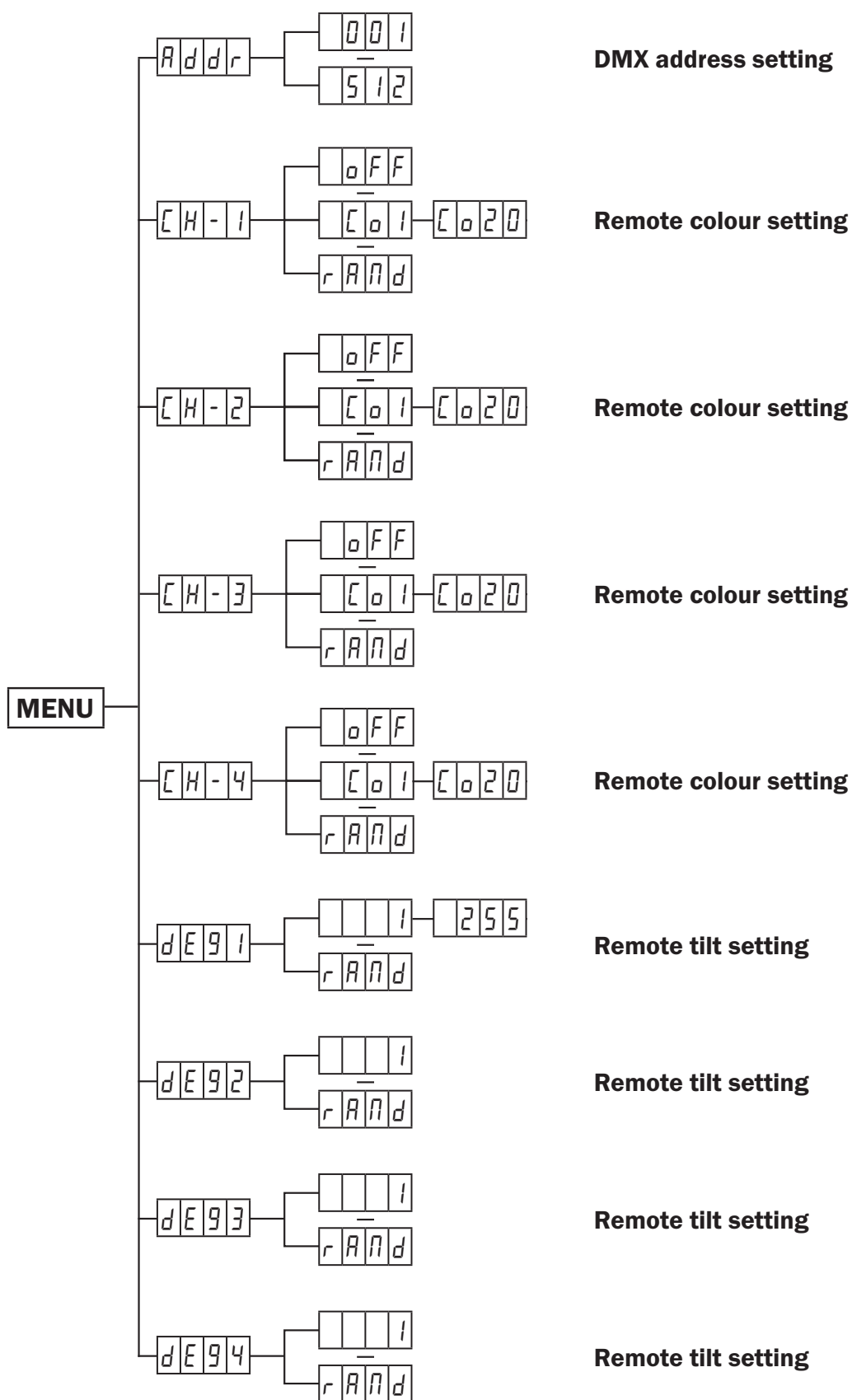


DANGER TO LIFE!

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 *U000* followed by *HEAT*. Once the heating up is finished it will then display *Addr*, which means the unit is ready for use.

DMX mode:

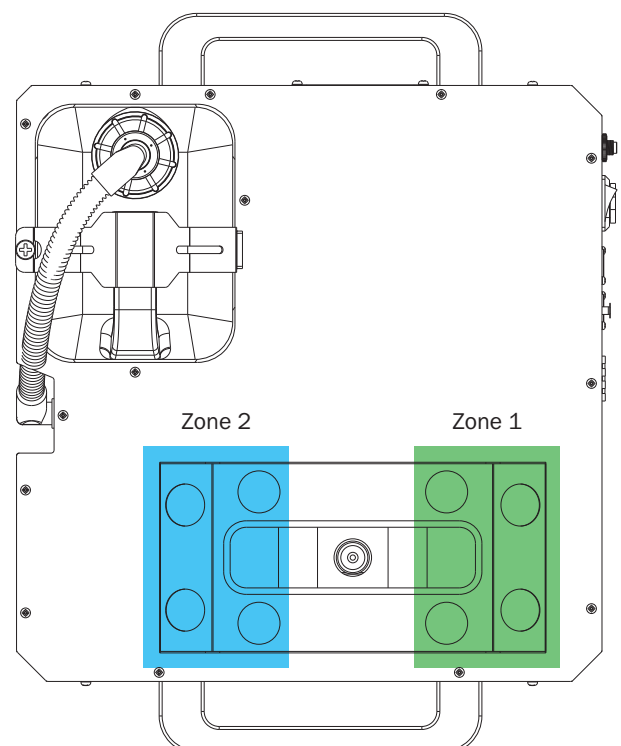
Operating instructions Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX address mode, press the **"MENU"** button until *Addr* is shown on the LED display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the required DMX address. Press the **"ENTER"** button to confirm the setting. To exit out of any of the above options, press the **"MENU"** button.

16 channel mode:

Channel	Value	Function
CH1	000-009	No function
	010-255	Fog
CH2	000-011	No function
	012-255	Red Dimmer (0-100%)
CH3	000-011	No function
	012-255	Green Dimmer (0-100%)
CH4	000-011	No function
	012-255	Blue Dimmer (0-100%)
CH5	000-011	No function
	012-255	Amber Dimmer (0-100%)
CH6	000-011	No function
	012-255	UV Dimmer (0-100%)
CH7	000-011	No function
	012-255	Red Dimmer (0-100%)
CH8	000-011	No function
	012-255	Green Dimmer (0-100%)
CH9	000-011	No function
	012-255	Blue Dimmer (0-100%)
CH10	000-011	No function
	012-255	Amber Dimmer (0-100%)
CH11	000-011	No function
	012-255	UV Dimmer (0-100%)
CH12	000-009	No function
	010-255	Colour macros
CH13	000-009	No function
	010-255	Colour change (slow-fast)

Channel	Value	Function
CH14	000-009	No function
	010-255	Strobe (slow-fast)
CH15	000-011	No function
	012-255	Master Dimmer (0-100%)
CH16	000-255	Output tilt, -45° - +45°



Wireless remote control:

To control via the wireless remote first the buttons need to be set to the desired colour and tilt angle settings. To set the colour, press the **“MENU”** button until $\angle H - 1$ is shown on the LED display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the desired colour for button 1 (see below for colour chart). Press the **“ENTER”** button to confirm the setting.

Repeat the above for $\angle H - 2$ (button 2), $\angle H - 3$ (button 3) and $\angle H - 4$ (button 4).

To exit out of any of the above options, press the **“MENU”** button.

Colour Chart:

Co 1	Red
Co 2	Green
Co 3	Blue
Co 4	Amber
Co 5	UV
Co 6	Pink
Co 7	Purple
Co 8	Yellow
Co 9	Cyan
Co10	White
Co11	Zone 1 Green, Zone 2 Red
Co12	Zone 1 Blue, Zone 2 Red
Co13	Zone 1 Red, Zone 2 Green
Co14	Zone 1 Blue, Zone 2 Green
Co15	Zone 1 Red, Zone 2 Blue
Co16	Zone 1 Green, Zone 2 Blue
Co17	Zone 1 Amber, Zone 2 Purple
Co18	Zone 1 Blue, Zone 2 Purple
Co19	Zone 1 Purple, Zone 2 Amber
Co20	Zone 1 Pink, Zone 2 Blue
rand	Colour change

To set the tilt angle, press the **“MENU”** button until $d\theta - 1$ is shown on the LED display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the desired tilt angle for button 1 from $1 - 255$ (-45° - $+45^\circ$) or *rand* (auto tilt back and forth). Press the **“ENTER”** button to confirm the setting.

Repeat the above for $d\theta - 2$ (button 2), $d\theta - 3$ (button 3) and $d\theta - 4$ (button 4).

To exit out of any of the above options, press the **“MENU”** button.

Plug the remote receiver into the unit and when the wireless remote is now used it output the colour and tilt angle of what has been set above.

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 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. 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.

There are no serviceable parts.

Maintenance and service operations are only to be carried out by authorised dealers.

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.

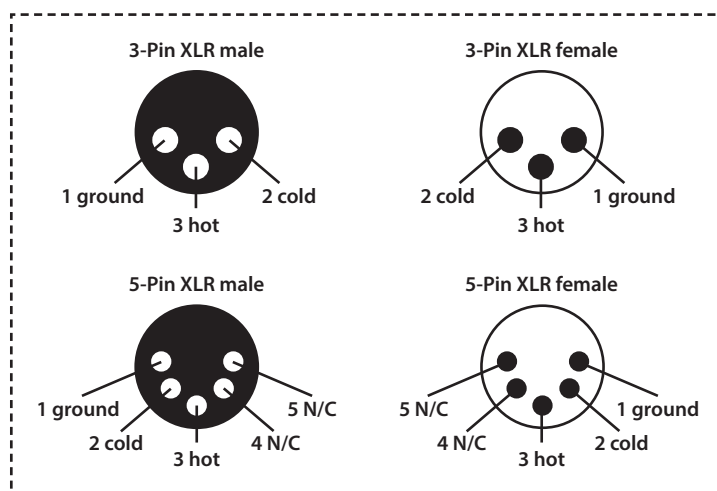
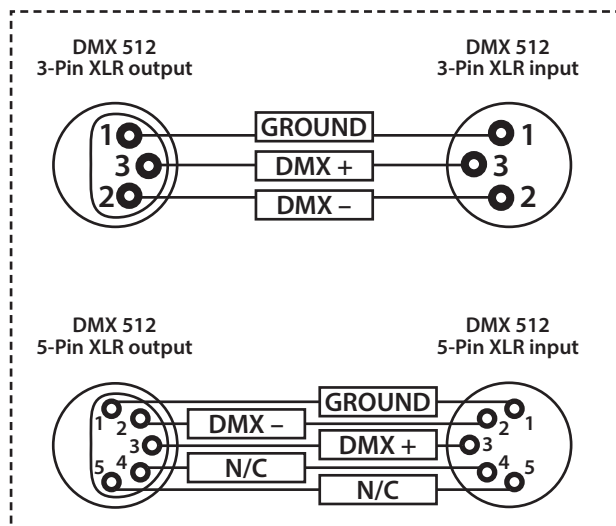
Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

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



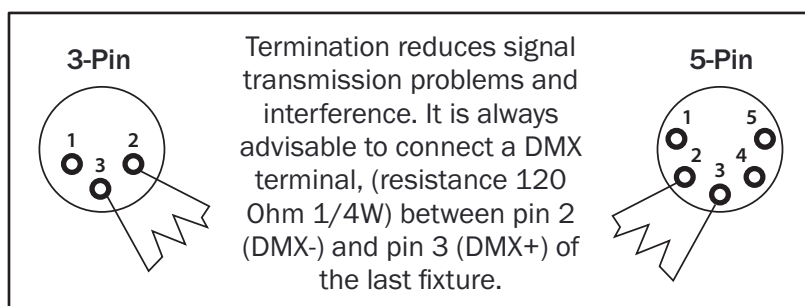
Line termination:

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.

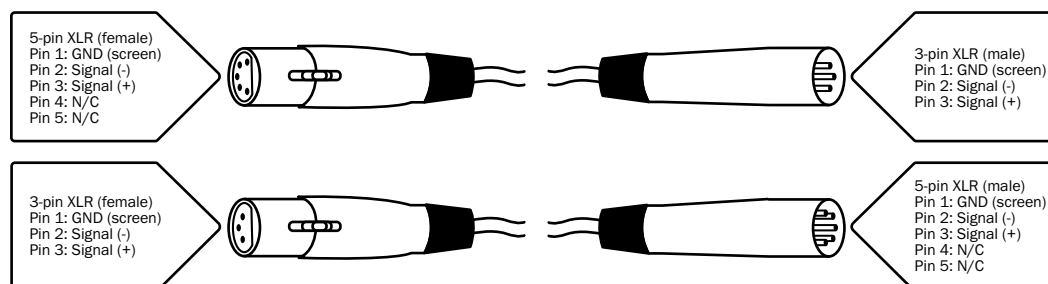
(3-pin - Order ref: CABL90,

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.

