

# Instruction Manual

## PROFESSIONAL SHOW LIGHT

### LED XP-700 Zoom



**Unpacking:** Thank you for purchasing the XP700 Zoom. Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING VELLO XP-700 ZOOM. SAVE IT FOR FUTURE REFERENCE.**

**Warning!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

**PLEASE** consider that damages caused by manual modifications to the device are not subject to warranty.

**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

**PLEASE recycle the shipping carton when ever possible.**

**General Instructions:** To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

## Features

- Multi-Colors
- Color Strobe
- Electronic Dimming 0-100%
- DMX-512 protocol
- Master/Slave synchronization
- LCD operation menu with function buttons
- Daisy Chain Units Together in DMX Mode

## Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.

- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

## Technical Specifications

### Electrical

Power supply:.....electronic auto-ranging  
 Input voltage range:.....supply 90-250V, 50/60Hz  
 Fuse:..... 5 A@230V  
 Power consumption:.....450W@230V, power factor=0.98

### Optic

Light source: TW (RGBW 15W) LED X30PCS  
 LED life expectancy: 60,000 hours  
 Dimmer: Smooth dimmer from 0-100%  
 RGBW color mixing + CTC  
 8° -60° linear zoom

### Motorized

Pan/Tilt  
 Pan movement range: 450°  
 Tilt movement range: 290°  
 16 bit movement resolution  
 Automatic Pan/Tilt position correction  
 Pan movement 0°-450°at max.....Speed: 2.2 sec.  
 Tilt movement 0°-300°at max..... Speed: 1.2 sec.

### LCD operation

Built-in demo sequences  
 Silent fans cooling  
 Strong three-phase motors  
 Stand-alone operation

Supported protocols: DMX512  
2 DMX modes (13, 16 control channels)

**Connection**

DMX data in/out: Locking 3-pin/ 5-pin XLR  
AC power input: 1.5m power cord with plug

**Rigging**

Mounting points: 2 pairs of 1/4-turn locks  
Mounting horizontally or vertically via 2 Omega brackets

**Temperatures**

Maximum ambient temperature: 45°C  
Maximum housing temperature: 75°C

**Minimum distances**

Min. distance from flammable surfaces: 3.0m  
Min. distance to lighted object: 2.0m

Total heat dissipation: 1350 BTU/h (calculated)  
Pack size: 355(L) x 215(W) x 454(H) mm  
Weight (net): 15kg  
Warranty: 1 Year .....

**Set Up:**

**Power Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your XP600, The model is Auto power supply, It is workable in 90-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

**Connection to the mains**

For protection from electric shock, the fixture must be earthed!  
Install a suitable plug on the power cord, note that the cores in the power cord are colored according to the following table. The earth has to be connected!  
If you have any doubts about proper installation, consult a qualified electrician.

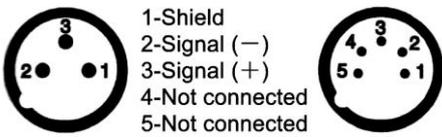
Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

**DMX512 connection**

The fixture is equipped with 3-pin sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted-pair cable designed for RS-485 3pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

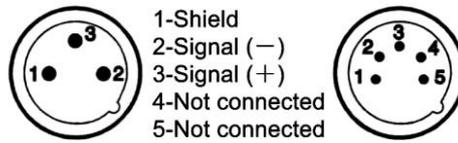
## DMX-output

XLR mounting-sockets (rear view):



## DMX-input

XLR mounting-plugs (rear view):

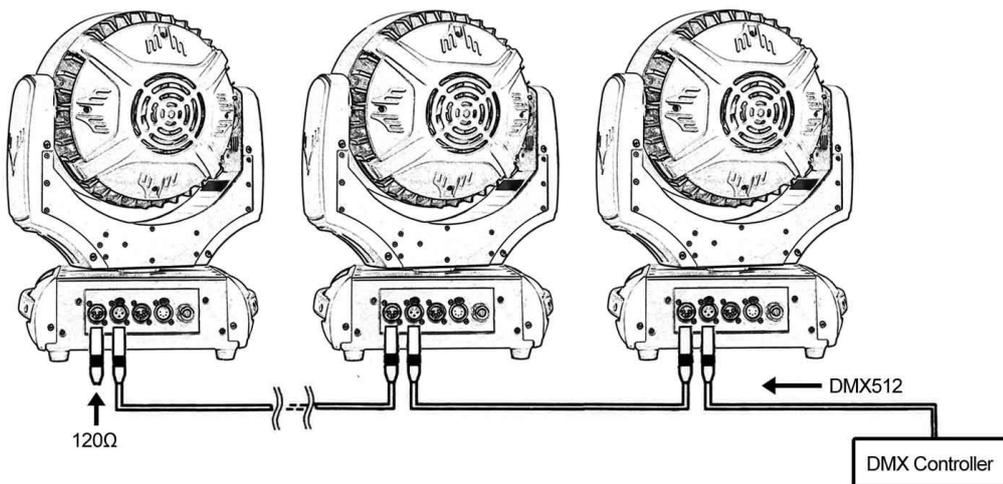


**DMX Linking:** To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere 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.

### Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.



**Operating Modes:** You can use the LED XP700 Zoom in 3 ways:

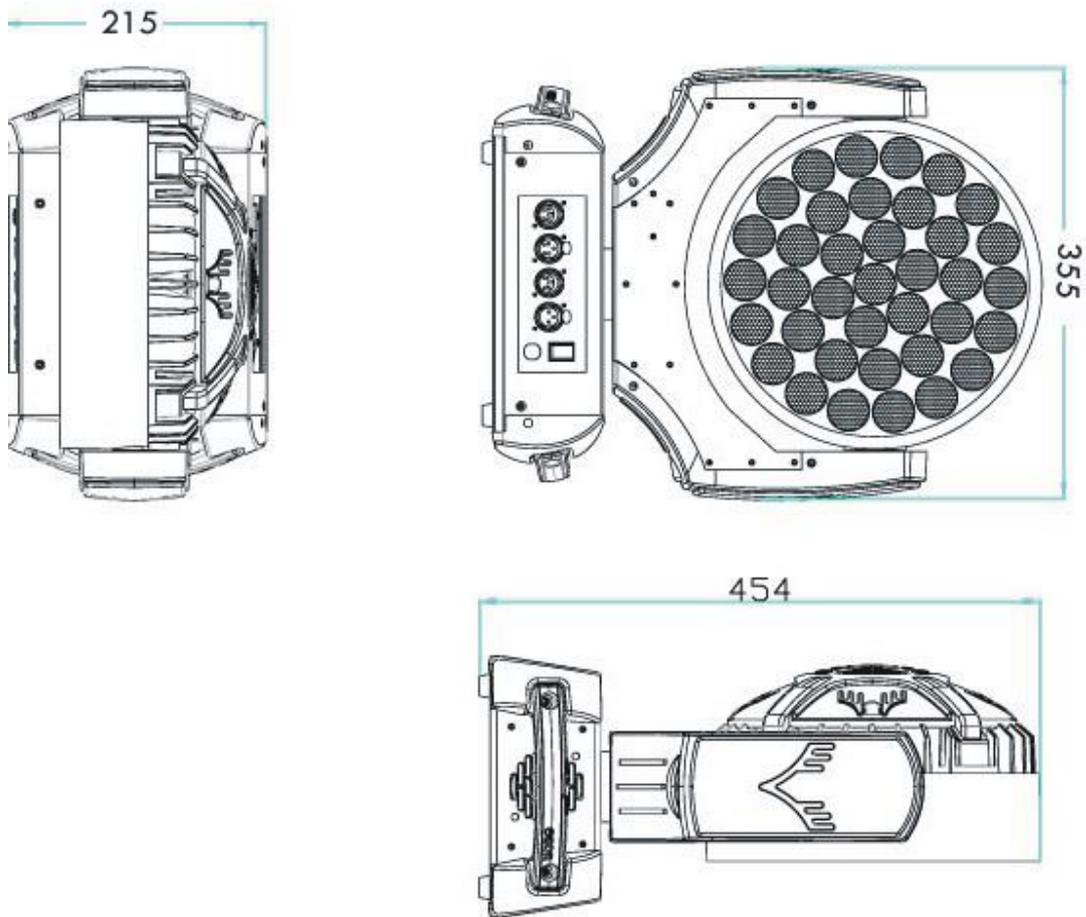
- Auto Mode - The unit automatically chase through the different colors and built-in programs.
- Slave Mode – The unit is available work by slave mode.
- DMX control mode - This function allows you to control each individual fixtures traits with a standard DMX 512 controller.

**DMX Mode:** Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

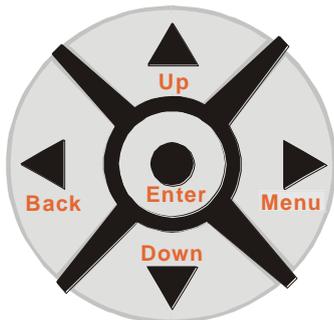
1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The fixture uses 13/16 DMX channels (RGBW version) to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.

4.

### Chart Size(mm)



**Touch Buttons:** There are five buttons under the LCD display below:

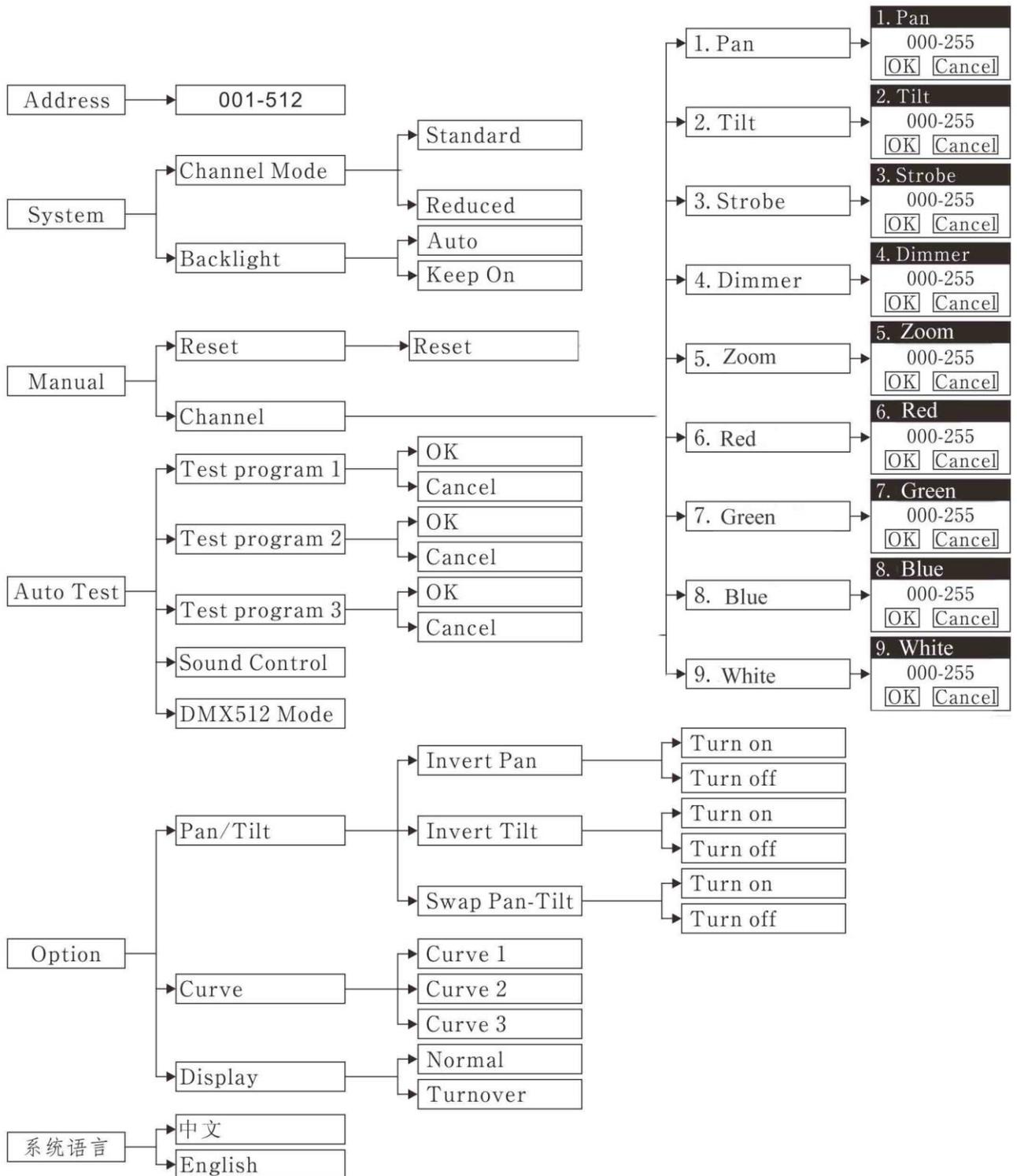


“DMX512 Addr: 001”

Normally, the LCD will display the current DMX address code of the fixture, as like, When the first line reads: “Select Menu<>”, press Menu to enter the main menu; press Up/Down to scroll in the menu or submenu options; Press Enter to confirm your selection, and the first line will change to “Select Value <>”, At this time, press Up/Down to change the value in the selected function. Any time press and hold Up or Down, the value will rapidly change and stop when release. Once the value is set, press enter again to save and exit to the main menu.

**LCD display operation below :**

# DISPLAY MENU



**DMX CHANNEL MODE:**

Reduced Mode	Standard Mode	Value	Function
1	1	000-255	Master dimmer
2	2	000-010	Off
		011-110	Strobe fast-slow
		111-115	Open
		116-165	Pulse strobe1 slow-fast
		166-170	Open
		171-220	Pulse strobe 2 slow-fast
		221-230	Open
		231-245	Random strobe
		246-266	Open
3	3	000-255	Pan
*	4	000-255	Pan fine
4	5	000-255	Tilt
*	6	000-255	Tilt fine
*	7	000-255	Pan/Tilt speed fast-slow
5	8	000-255	8° -60° Zoom
6	9	<b>&lt;Color Macro &gt;</b>	
		207-255	Alice Blue
		191-206	Congo Blue
		184-190	Dark Steel Blue
		180-183	Deep lavender
		179	Lilac Tint
		175-178	Daylight Blue
		174	Flame Red
		172-173	Bastard Amber
		168-171	Deep Orange
		162-167	Pale Gold
		157-161	Apricot
		151-156	Bright Blue
		149-150	Primary Green
		147-148	Special lavender
		146	Pale Lavender
		145	Deep Golden Amber
		142-144	Medium Blue
		138-141	Bright Pink
		137	Mauve
		134-135	Dark Green
		131-133	Leaf Green
		129-130	Dark Blue
		128	Light Blue
127	Steel Blue		
126	Med Blue Green		

		125 123-124 121-122 120 119 118 117 115-116 114 113 112 110-111 100-109 089-099 078-088 068-077 062-067 049-061 046-048 045 035-044 032-034 031 030 029 027-028 023-026 020-022 019 018 017 016 015 014 013 012 011 010 000-009	Peacock Blue Magenta Dark Pink Middle Rose Light Salmon English Rose Light Rose Orange Deep Amber Straw Light Amber Spring Yellow Dark yellow green Just Blue Sky Blue Lavender Light Lavender Pink Carnation Medium Pink Light Pink Sunrise Red Dark Amber Gold Amber Medium Amber Fire Surprise Peach Straw Tint Medium Yellow Black White 5000°K White 3700°K White 7000°K Magenta Yellow Cyan Blue Green Red No function
7	10	000-255	CCT
8	11	133-255 010-132 000-009	<b>Built-in programs</b> Slow-Fast Fast->Slow Open
9	12	000-255	Red color intensity
10	13	000-255	Green color intensity
11	14	000-255	Blue color intensity

12	15	000-255	White color intensity
13	16	072-255	No function
		064-071	Backlight Off
		056-063	Backlight On
		010-055	Reset

## Rigging the fixture

**Caution:** Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1.0 m.

### CAUTION!

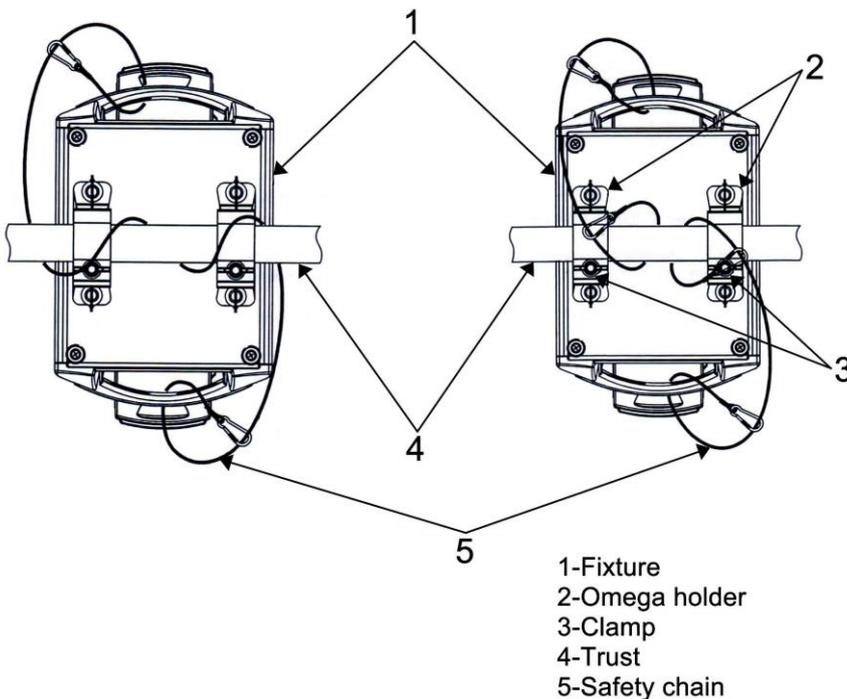
Use an appropriate clamp to ring the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

#### Securing the fixture via one safety wire

#### Securing the fixture via two safety wires



## Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

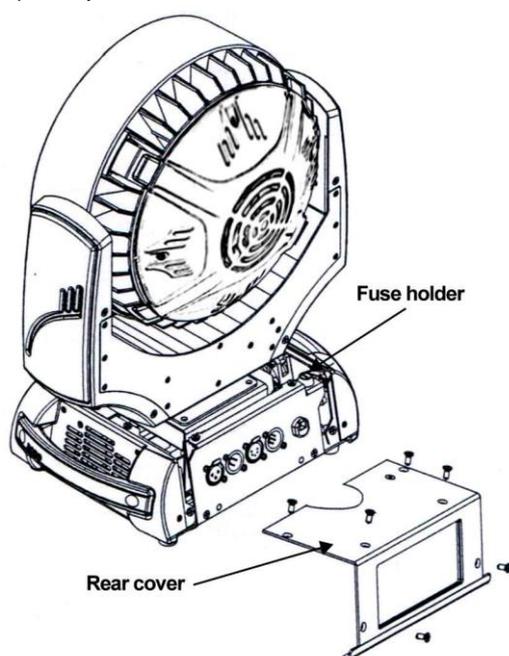
Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

**TROUBLE SHOOTING:** Listed below are a few common problems the user may encounter, with solutions.

### Replacing fuse

Only replace the fuse by a fuse of the same type and rating. Before replacing the fuse, unplug mains lead! If you need to replace the main fuse, follow the instructions:

- 1) Remove the rear cover of the base by unscrewing 6 fastening screws.
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse into the fuse holder.
- 4) Replace the rear cover back to the base.



### Unit not respond to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 5 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

**Note:** All information is subject to change without prior notice.