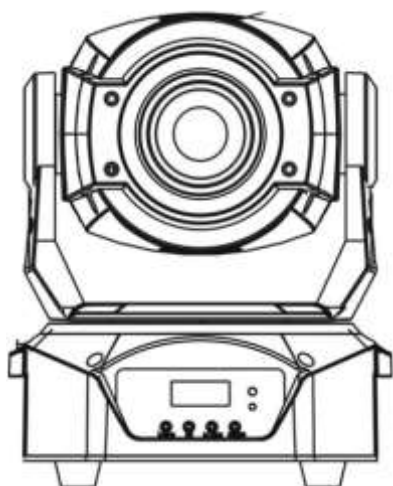


GLOW[®]

CLIFF JUMPER[™]
KV75

USER MANUAL



Cliff Jumper[™]

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1. BEFORE YOU BEGIN

What is included

- □ 1 x Spot
- □ 1 x Mounting bracket and screws
- □ 1 x Power cable
- □ 1 x User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.




Manual Conventions

manuals use the following conventions to differentiate certain types of information from the regular text.

CONVENTION	MEANING
[10]	A LCD display to be configured
<Menu>	A key to be pressed on the fixture's control panel
1~512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified (for example, showing the operating mode/current status)
MENU > Settings	A sequence of menu options to be followed
ON	A value to be entered or selected

Icons

This manual uses the following icons to indicate information that requires special attention on the part of the user.

ICONS	MEANING
	This paragraph contains critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information

Safety Instructions



Please read these instructions carefully. It includes important information about the installation, usage and maintenance of this product.

- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- Make sure there are no flammable materials close to the unit while operating.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse source.
- Secure fixture to fastening device using a safety chain.
- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Never connect the device to a dimmer pack.
- Avoid direct eye exposure to the light source while it is on.
- Never carry the fixture by holding the head. Always use the carrying handle.

2. INTRODUCTION

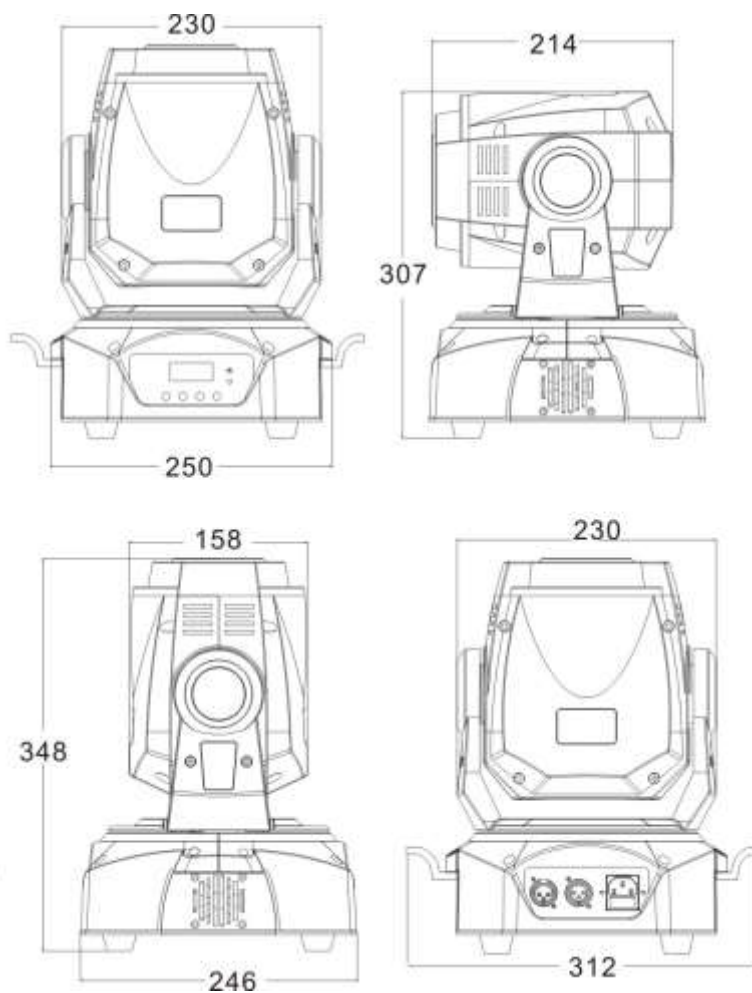
Technical Specification

- 1) Voltage: 100-240V,50-60Hz
- 2) Power consumption: 100W
- 3) LED: ultra bright 75W LED
- 4) LED color wheel: Basic 7 colors+ white, can adjust speed rainbow effect
- 5) Fixed gobo: 8 gobos+ white, Gobo rotating CW and CCW from slow to fast), gobo shaking
- 6) Rotation gobo: 6 gobos + white, can bidirectional speed change rotation, gobo shaking
- 7) Dimmer/Strobe: Dimmer, 1-20t/s
- 8) Focus: Electronic Focus
- 9) Pan: 540° Tilt: 270
- 10) Control: DMX 512, 14/16 /11CHs
- 11) Working mode: Stand-alone mode, Controller mode, Master/Slave Synchronization mode
- 12) Other function: Pan/Tilt speed adjustable
Housing: High temperature resistant engineering plastic + aluminum alloy.
- 13) Weight: 6.5KG
- 14) Product Size: 240*240*370mm
- 15) Packing Size: 350*340*375mm

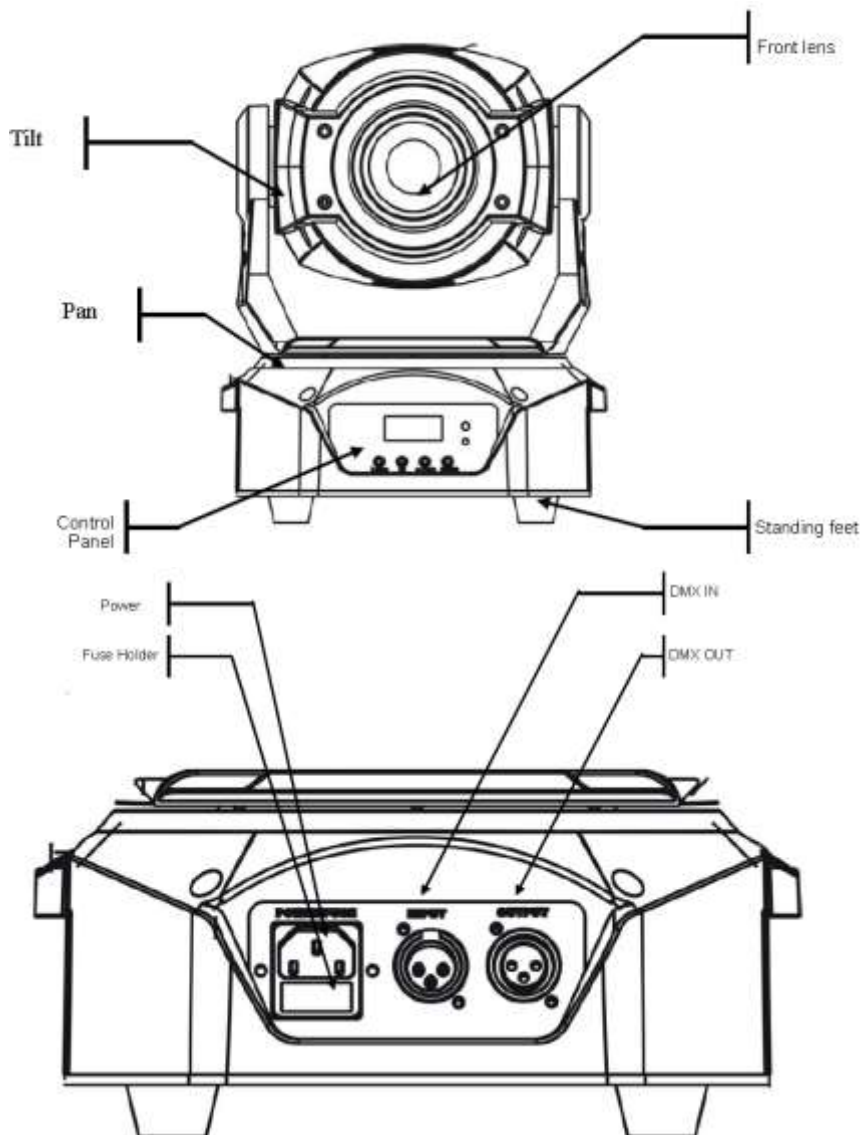
Photometric



Product Dimensions



Product Overview



3. SET UP

AC Power

This fixture runs on 100-240VAC, 50/60 Hz. This fixture used switch power supply, it can transform by itself when user input power.



Always connect the fixture to a switched circuit. Never connect the fixture to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used only as a 0 to 100% switch.

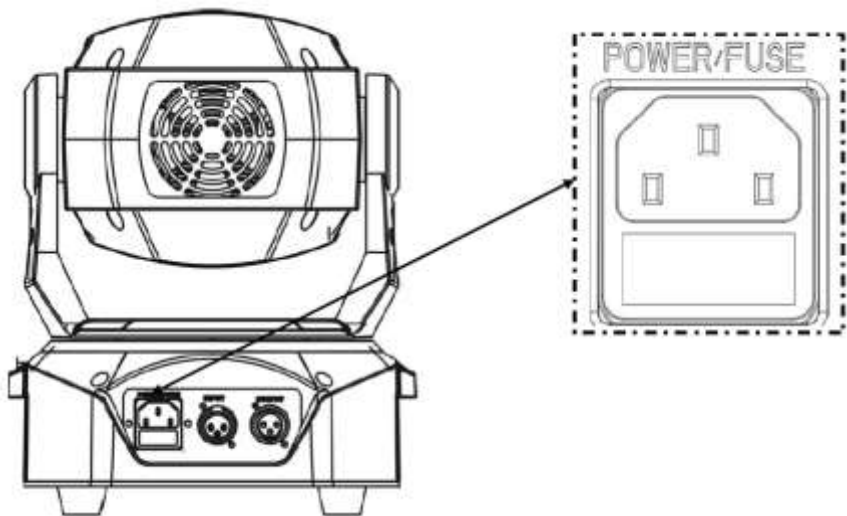


Always connect the fixture to a circuit with a suitable electrical ground.

The maximum quantity of fixtures that may be linked is 4.

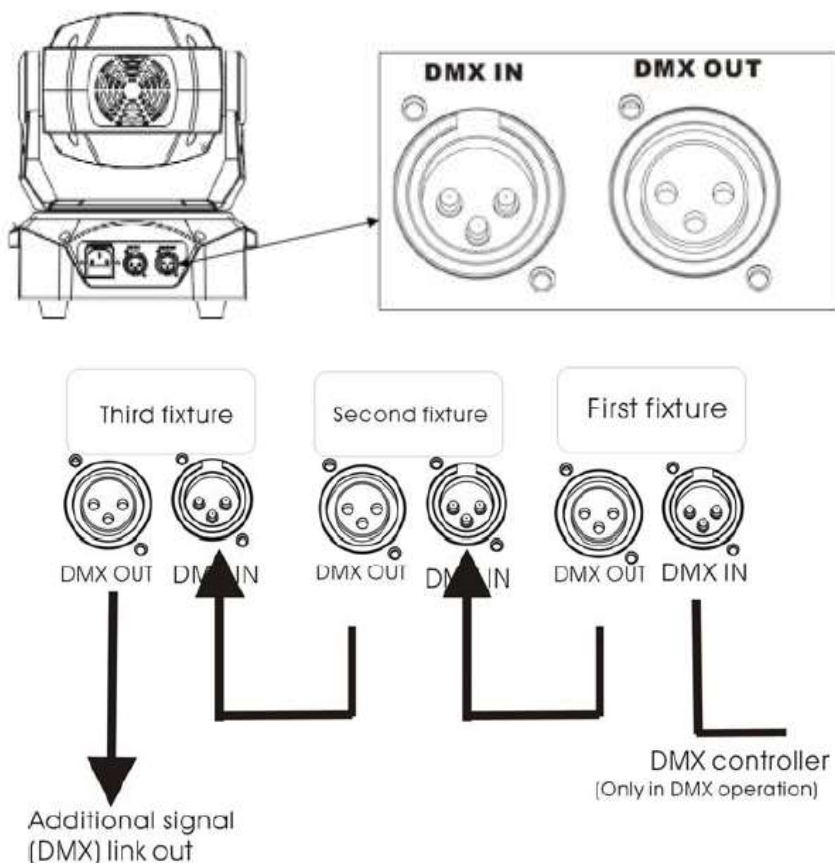
Power Linking

This fixture contains power linking via the outlet located in front of the power input cable. Please see the diagram below for further explanation.



Signal Linking (DMX)

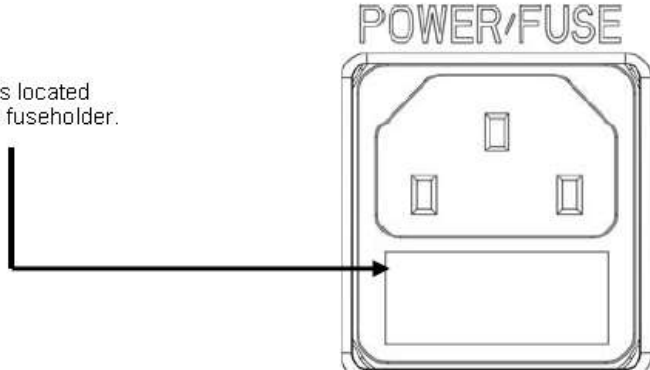
The diagrams below illustrate the signal (DMX) linking for this fixture. This is used both in DMX mode and when operating the fixtures in Master/Slave mode. Please see the diagram below for further explanation.



Fuse Replacement

With a flat head screwdriver unscrew the fuse holder out of its housing, turning counter-clockwise. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this fuseholder.



Mounting Orientation

The Spot may be mounted in any safe position provided there is adequate room for ventilation.

Rigging

Be sure that the structure can support 10 times the weight of the fixture. Please see the "Technical Specifications" section of this manual for a detailed weight listing. Mount the fixture securely. Two hanging clamps for truss mounting may be used, or nuts and bolts for permanent installation may be used. The holes in each bracket are 13 mm in size. When rigging, consider routine maintenance and control panel access. Please see the following steps for installation.

- If the power link out is intended to be used with multiple fixture, take into account the length of each power cable, and mount the fixtures



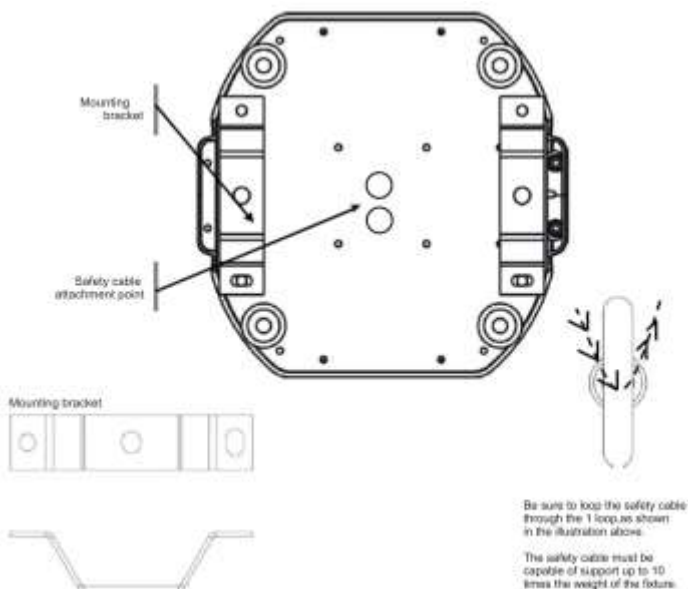
Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



- close enough to one another to accommodate for this.
- Attach both included bolts in the locations indicated below, using a metric 8 mm Allen wrench.
- Attached 2 hanging clamps to the bracket in each of the two locations indicated below
- Safety cables must always be used.



Do NOT mount this fixture sideways!



4. OPERATING

Configuration (DMX)

Set the product in DMX mode to control with a DMX controller.

1. Connect the product to a suitable power outlet.
2. Turn the product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Control Panel Functions

The Control Panel shows the current state of the unit. It is used to select the operating mode, as well as the sub-features. For a detailed layout of the control panel functions, please see the “menu map” section on the following page.



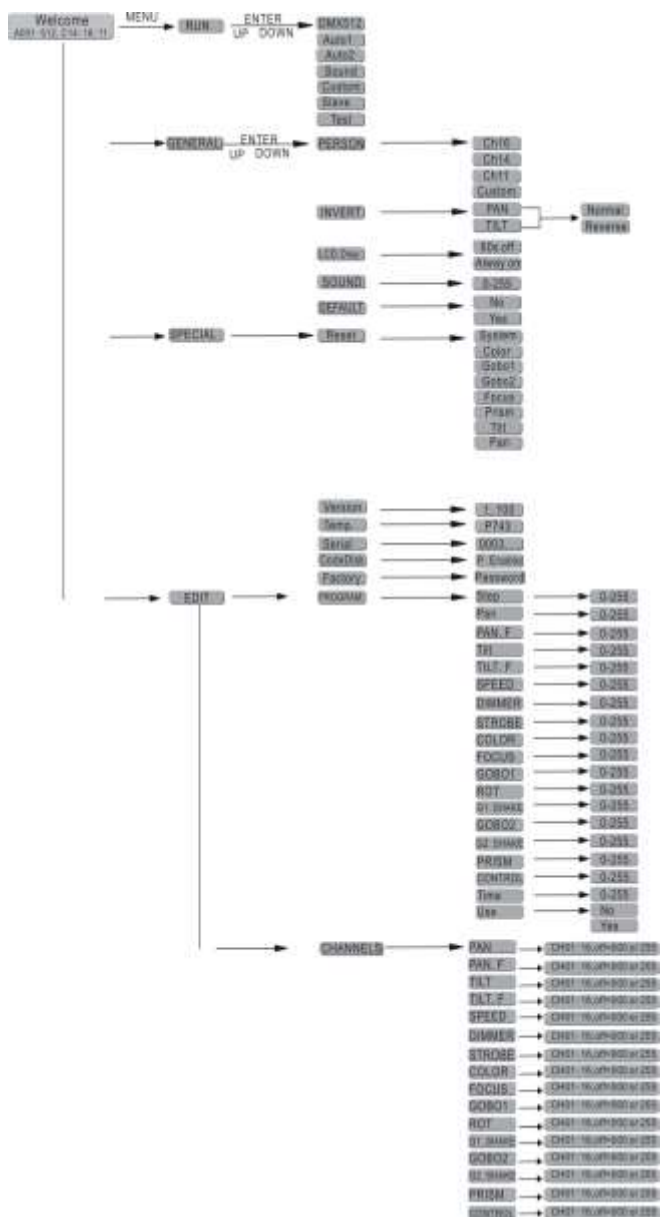
[MODE] menu selection or return to previous menu.

[UP] press [UP] through the menu list to increase/change the value of the current function.

[DOWN] press [DOWN] through the menu list to decrease/change the value of the current function.

[ENTER] confirm & quit out current function setting.


Menu Map



DMX CHANNEL VALUES

16-Channel Mode

16 CHS	CH value	Function
1CH X rotation	000-255	X rotation 0°-540°
2CH X fine adjustment	000-255	X fine adjustment
3CH Y rotation	000-255	Y rotation 0°-270°
4CH Y fine adjustment	000-255	Y fine adjustment
5CH X/Y Speed	000-255	XY speed from fast to slow
6CH LED 75W Dimmer	000-255	From dark to bright
7CH Strobe	0-5	ON
	6-249	Strobe from slow to fast
	250-255	ON
8CH 7Color + White	0-9	White
	10-19	White+Red
	20-29	Red
	30-39	Red+Green
	40-49	Green
	50-59	Green+Blue
	60-69	Blue
	70-79	Blue+Yellow
	80-89	Yellow
	90-99	Yellow+Purple
	100-109	Purple
	110-119	Purple+Aqua
	120-129	Aqua
	130-139	Aqua+Cambridge blue
	140-149	Cambridge blue
	150-180	Cambridge blue+White
	181-255	Rainbow Effect(slow to fast)
9CH Focus	000-255	Focus, from near to far

10CH 6 rotation Gobo wheel		
	140-255	Gobo rotating CW and CCW from slow to fast)
11CH Goboself-rotation	0-19 20-139 140-255	No function Gobo self-rotating clockwise from slow to fast Gobo self-rotating counter- clockwise from slow to fast
12CH Rotation gobo shaking	000-255	Slow-fast

13CH 8 Static Gobos	<p>White 0-9 Gobo1 10-19 Gobo2 20-39</p> <p>Gob3 40-59 Gobo4 60-79 Gobo5 80-99</p> <p>Gobo6 100-119 Gobo7 120-139 Gobo8 140-159</p>	
	160-255	Gobo rotating CW and CCW from slow
14CH Static gobo shaking	000-255	Slow-fast
15CH Prism	0-19 20-63 64-255	OFF ON Forward Rotating from fast to slow
16CH Reset	1-199 200-219 220-255	No function Reset after 3 second No function

14-Channel Mode

14 CHS	CH value	Function
1CH X rotation	000-255	X rotation 0°-540°
2CH X fine adjustment	000-255	X fine adjustment
3CH Y rotation	000-255	Y rotation 0°-270°
4CH Y fine adjustment	000-255	Y fine adjustment
5CH X/Y Speed	000-255	XY speed from fast to slow
6CH LED 75W Dimmer	000-255	From dark to bright

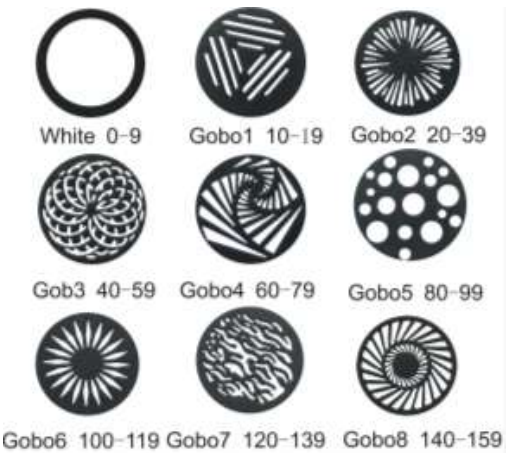
7CH Strobe	0-5 6-249 250-255	ON Strobe from slow to fast ON
8CH 7Color + White	0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 100-109 110-119 120-129 130-139 140-149 150-180 181-255	White White+Red Red Red+Green Green Green+Blue Blue Blue+Yellow Yellow Yellow+Purple Purple Purple+Aqua Aqua Aqua+Cambridge blue Cambridge blue Cambridge blue+White Rainbow Effect(slow to fast)
9CH Focus	000-255	Focus, from near to far
10CH 6 Gobos + White		
	140-255	Gobo rotating CW and CCW from slow to fast)
11CH Gobo self-rotation	0-19 20-139 140-255	No function Gobo self-rotating clockwise from slow to fast Gobo self-rotating counter-clockwise from slow to fast

12CH 8 Gobos + White		
	160-255	Gobo rotating CW and CCW from slow to fast
13CH Prism	0-19 20-63 64-255	OFF ON Forward Rotating from fast to slow
14CH Reset	1-199 200-219 220-255	No function Reset after 3 second No function

11-Channel Mode

11 CHS	CH value	Function
1CH X rotation	000-255	X rotation 0°-540°
2CH Y rotation	000-255	Y rotation 0°-270°
3CH X/Y Speed	000-255	XY speed from fast to slow
4CH LED 75W Dimmer	000-255	From dark to bright
5CH Strobe	0-5 6-249 250-255	ON Strobe from slow to fast ON
6CH 7Color + White	0-9 10-19 20-29	White White+Red Red

	30-39 40-49 50-59 60-69 70-79 80-89 90-99 100-109 110-119 120-129 130-139 140-149 150-180 181-255	Red+Green Green Green+Blue Blue Blue+Yellow Yellow Yellow+Purple Purple Purple+Aqua Aqua Aqua+Cambridge blue Cambridge blue Cambridge blue+White Rainbow Effect(slow to fast)
7CH Focus	000-255	Focus, from near to far
8CH 6 rotation Gobo wheel		
	140-255	Gobo rotating CW and CCW from slow to fast)
9CH Gobo self-rotation	0-19 20-139 140-255	No function Gobo self-rotating clockwise from slow to fast Gobo self-rotating counter-clockwise from slow to fast

10CH 8 Static Gobos wheel		
	160-255	Gobo rotating CW and CCW from slow to fast
11CH Prism	0-19 20-63 64-255	OFF ON Forward Rotating from fast to slow

DMX Personalities

The Cliff Jumper™ has three DMX personalities, an 16-channel, 14-channel and 11-channel.

To choose which DMX personality to use, follow the steps below:

1. Press <GENERAL> repeatedly until <PERSON>, and Press <Enter> either 16CH (to choose the 16-channel personality) , 14CH (to choose the 14-channel personality) or 11CH (to choose the 11-channel personality) shows on the display
2. Press <ENTER>.

Setting Address

To select the starting address, do the following:

1. Press <MENU> repeatedly until 001 shows on the display.
2. Press <ENTER>.
3. Use <UP> or <DOWN> to select the starting address.
4. Press <ENTER>.

Configuration (Standalone)

Set the product in one of the standalone modes to control without a DMX controller.

1. Connect the product to power.
2. Turn the product on.

Sound-Active Mode

To enable the Sound-Active mode, do the following.

1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
2. Press <UP> or <DOWN> to select RUN.
3. Press <UP> or <DOWN> to select sound.
4. Press <ENTER>.

Automatic Mode

To enable the Automatic mode.

1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
2. Press <UP> or <DOWN> to select RUN.
3. Press <UP> or <DOWN> to select Auto1 or Auto2.
4. Press <ENTER>.

Master/Slave Mode

The Master/Slave mode allows a single Cliff Jumper™ (the "master") control the actions of one or more Cliff Jumper™ (the "slaves") without the need of a DMX controller. The master unit will be set to operate in either Automatic or Sound-Active mode, while the slave units will be set to operate in Slave mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
2. Press <UP> or <DOWN> to select <RUN>.
3. Press <UP> or <DOWN> to select SLAVE.
4. Set the DMX address to 001.

Master unit:

1. Set the master unit to operate in either Automatic or Sound-Active mode.
2. Set the DMX address to 001.

Temperature display

To display the temperature of the system.

1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL
2. Press <UP> or <DOWN> to select SPECIAL.
3. Press <UP> or <DOWN> to select Temp.
4. Press <ENTER>.

INVERT/ PAN

To enable the invert/pan mode, do the following.

1. Press <MENU> repeatedly until one of the following shows on the

display: RUN,GENERAL,SPECIAL,EDIT.

2. Press <UP> or <DOWN> to select General
3. Press <UP> or <DOWN> to select Invert
4. Press <UP> or <DOWN> to select Pan.
5. Press <UP> or <DOWN> to select Reverse or Normal.
5. Press <ENTER>.

INVERT/TILT

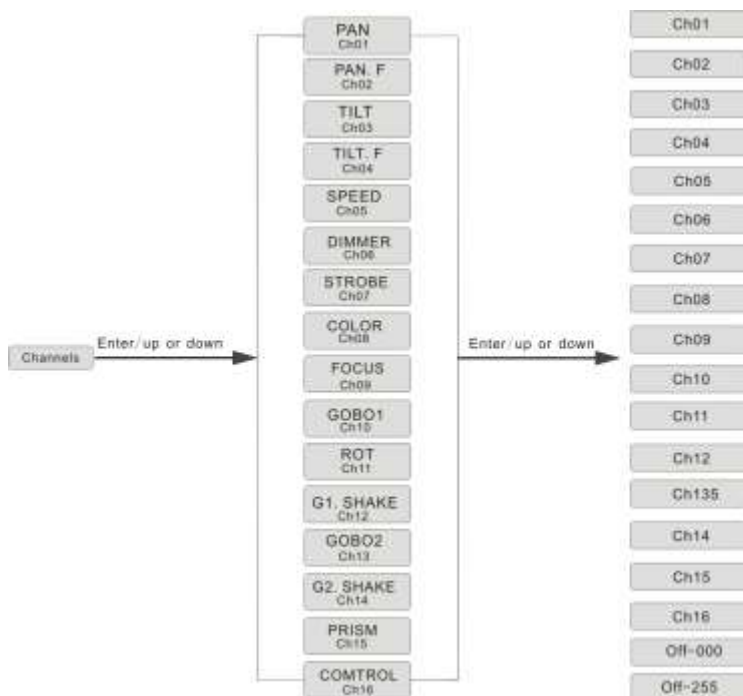
1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
2. Press <UP> or <DOWN> to select General.
3. Press <UP> or <DOWN> to select Invert
4. Press <UP> or <DOWN> to select Tilt
5. Press <UP> or <DOWN> to select Reverse or Normal
- 6 Press <ENTER>

CUSTOM

Use this MENU if you want to reordering the DMX channel of Cliff Jumper™

1. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
2. Press <UP> or <DOWN> to select RUN.
3. Press <UP> or <DOWN> to select CUSTOM.
4. Press <ENTER>.
5. Press <MENU> repeatedly until one of the following shows on the display: RUN,GENERAL,SPECIAL,EDIT.
8. Press <UP> or <DOWN> to select EDIT.
9. Press <UP> or <DOWN> to select CHANNELS.

Please see the diagram below for further explanation.



When selecting CH1-16, you could change the order what you want. When selecting OFF=000, you could turn off the function.

5. APPENDIX

General Maintenance

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

- Use a vacuum or air compressor and a soft brush to remove dust collected on external vents.

- Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue.
- Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens.
- Gently polish optical surfaces until they are free of haze and lint.

The cleaning of external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates. Damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Clean the external optics at least every 20 days. Clean the fixture at least every 30/60 days.



Always dry the parts carefully after cleaning them.



Never spin a fan using compressed air.

General Troubleshooting

SYMPTOM	POSSIBLE CAUSE(S)	POSSIBLE ACTION(S)
Breaker/Fuse keeps blowing	<ul style="list-style-type: none"> • Excessive circuit load • Short circuit along the power wires 	<ul style="list-style-type: none"> • Check total load placed on the electrical circuit. • Check for a short in the electrical wiring (internal and/or external)
Device does not power up	<ul style="list-style-type: none"> • No power • Loose power cord 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord
Fixture is not responding to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Wrong polarity settings on the controller • Loose DMX cables • Faulty DMX interface • Faulty Main PCB 	<ul style="list-style-type: none"> • Check Control Panel and unit addressing • Check DMX cables • Check polarity switch settings on the controller • Check cable connections • Replace DMX input • Replace Main PCB
Loss of signal	<ul style="list-style-type: none"> • Non DMX cables • Bouncing signals • Long cable / Low level signal • Too many fixtures • Interference from AC wires 	<ul style="list-style-type: none"> • Use only DMX compatible cables • Install terminator as suggested • Install amplifier right after fixture with strong signal • Install an optically coupled DMX splitter after unit #32 • Keep DMX cables separated from power cables or black lights

