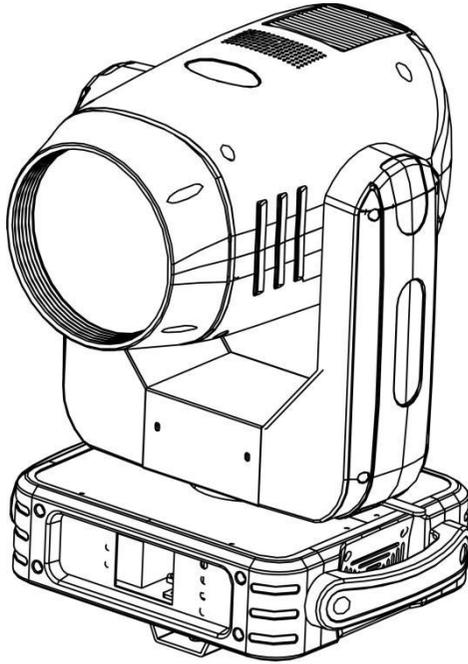


380W 18R Beam Moving Head



MD-B380

User Manual

Please read this user manual before using this product.



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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also cannot be responsible for any malfunction & problem owing to ignore the manual.

ACCESSORIES

These items are packed together with the product:

Name	Quantity	Unit	Remark
USER MANUAL	1	PCS	
DMX CABLE	1	PCS	
POWER CABLE	1	PCS	
CLAMP	2	PCS	
SAFETY CABLE	1	PCS	

SAFETY INSTRUCTION

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.



This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



This device falls under **PROTECTION CLASS 1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.



I N D O O R S U S E O N L Y !
DO NOT EXPOSE FIXTURE RAIN AND MOISTURE!



UNPLUG POWER BEFORE SERVICING FIXTURE!
DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

GENERAL GUIDELINES

- ◆ **NEVER OPEN THIS FIXTURE WHILE IN USE!**
- ◆ During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- ◆ This fixture is a professional lighting effect designed for **INDOOR / DRY LOCATIONS ONLY** on stage, in nightclubs, theatres, etc.

- ◆ Please make sure there are **NO FLAMMABLE MATERIALS** close to the fixture while operating, to prevent any fire hazard.
- ◆ The fixture must be installed in a location with adequate ventilation, at least 1.5 feet (.5m) from adjacent surfaces. Be sure no air ventilation slots are blocked.
- ◆ **DO NOT** attempt installation and/or operation without knowledge how to do so.
- ◆ **DO NOT** permit operation by persons who are not qualified to operate this type of fixture. Most damages are the result of operations by nonprofessionals. Consistent operational breaks may ensure the fixture will function properly for many years to come.
- ◆ **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- ◆ Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the bracket of the fixture.
- ◆ Use the original packaging and materials to transport the fixture in for service.
- ◆ **DO NOT TOUCH** the housing bare-hand during its operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before replacing or serving.

INSTALLATION



FLAMMABLE MATERIAL WARNING

Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.

CAUTIONS

- ◆ For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- ◆ Ambient operating temperature range for this fixture is **5° to 113°F. (-15° to 45°C)** Do not use the fixture under or above this temperature.
- ◆ Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.
- ◆ Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- ◆ Never stand directly below the device when mounting, removing or servicing.

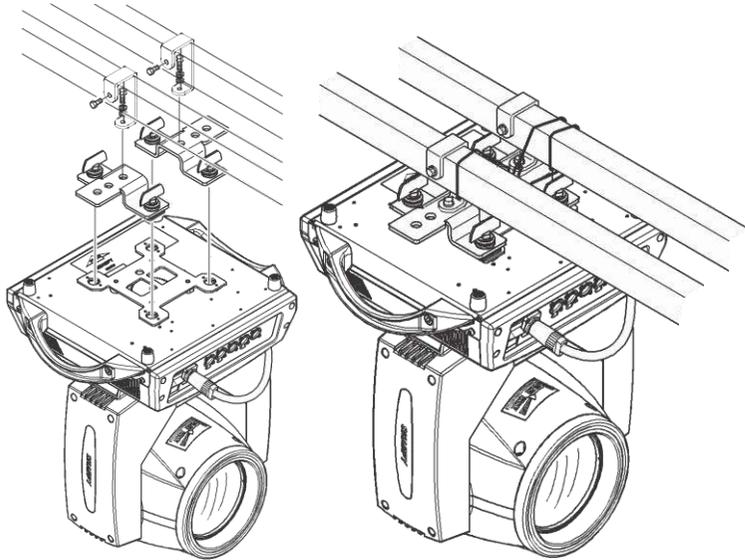
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is

able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

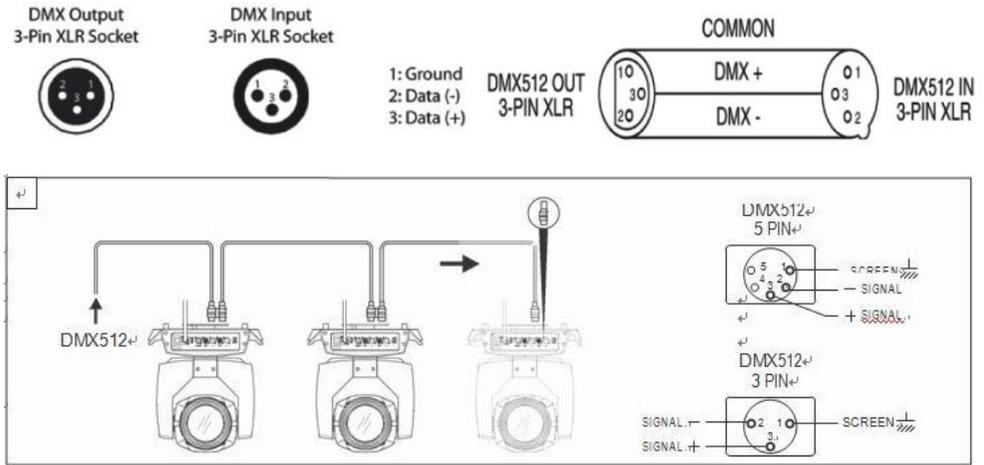
Clamp mounting

The moving head provides a unique mounting bracket assembly that integrates the bottom of the base, the included '**Omega Bracket**' and the **Safety Cable** rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included **Omega Bracket** using a M10 screw fitted through the center hole of the 'omega bracket'. As an added safety measure be sure to attached at least one properly rated **Safety Cable** to the fixture using one of the safety cable rigging point integrated in the base assembly.



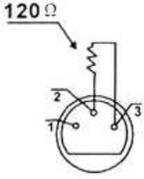
DMX-512 control connection:

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



DMX-512 connection with DMX terminator:

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



TECHNICAL SPECIFICATION

Light Sources: 380W YODN Lamp

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 550W

Control

DMX Channel: 16 DMX Channel

Control Modes: DMX-512

Control Signal: DMX512/Master-Slave/Auto run

Pan/Tilt

Pan/Tilt: 540°/ 270°

Pan/Tilt Resolution: 16 bit

GOBO & COLOR

Color wheel: one color wheel, 14 kinds of color plus open

Prisms 1: 16 facet prisms

Prisms 2: 48 faced prisms

Effect wheel: Rainbow wheel

Gobo: one color wheel, 17 kinds of color plus open

Construction

Display: Colorful Touch Screen

Data In/Out socket: 3-pin XLR sockets

Power Socket: Powercon in

Two 1/4 turn fastening Omega Clamps

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice

CONTROL SYSTEM

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. Connect several lights together dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

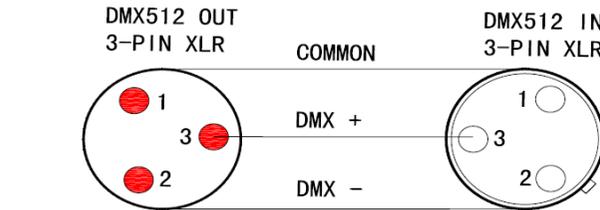
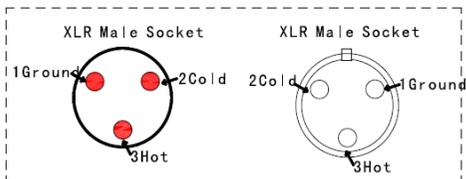


Figure2



XLR Pin Configuration
pin1=Ground
pin2=Data Compliment (negative)
pin3=Data true (positive)

PANEL OPERATION

Brief

The light panel diagram show as Figure 1, Left area is TFT Displayer, support touch, and right area is encoder button, both of touch and coder button can operate light and setting.

Display & operation just like 'Android operation system', touch the item will set or modify setting.

Note: Prevent damage the touch or TFT displayer, Can not use sharp objects chick displayer.

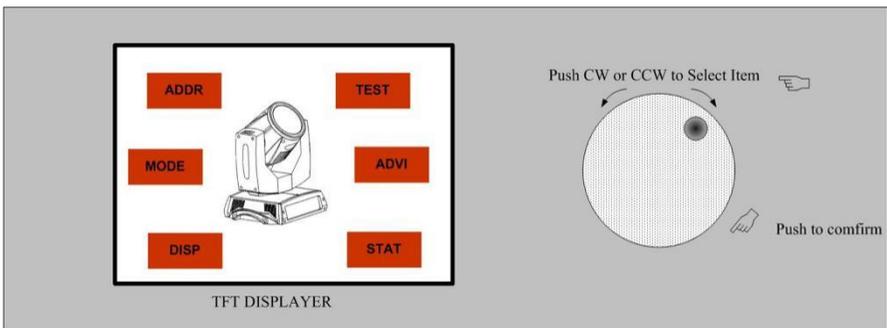


Figure 1 Panel diagram

Operation

Operate light with touch or encoder button

- The left area is TFT Displayer and touch, chick item or value with finger will to complete operation of set light setting(parameters) or view light state.
- The area on the right hand side is rotary encoder with button, As auxiliary input interface, if disable touch function,, the encoder can been choose to set or view the item, and then press the encoder button to confirm the

selection, rotary encoder again set the parameter value, finally, Press encoder button one again to save value or setting.

Parameter value setting

When the selected item is value need to be modified, the dialog shown in Figure 2 will popup.

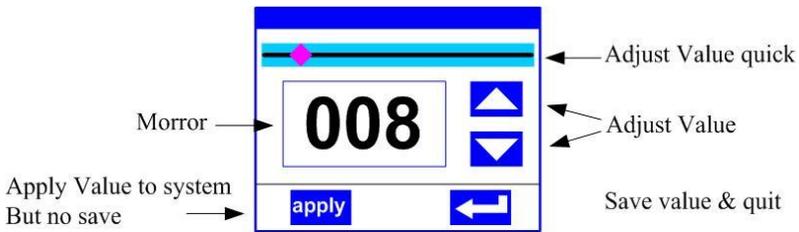


Figure 2 Dialog of value setting

- **Modify value:** Can quickly modify value via pull the slider to the desired position, or click the button of 'up' or 'down' whit finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.
- **Apply value:** When Value had been modified, Then press the bottom of 'apply' in the left corner to apply to the light, but hav't saved;
- **Save Value:** Any time, click on the lower right corner of the "OK" button, the setting will be saved into internal memory.

Boolean parameter setting

- when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by chick corresponding item, the setting will be saved right now.
- When the parameter is a key item, chick corresponding item, a dialog shown in Figure 3 will be popup ask for the confirm. Chick 'sure' to confirm.

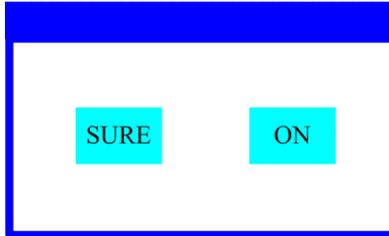


Figure 3 Dialog of confirm

Sub Menu (Parameter)

Chick item of main menu, enter corresponding sub menu, shown in Figure 4, total 6 sub menu, includes class of parameter and status:

- ADDRESS: Set light DMX address.
- WORKMOD: Set light work mode, master or slave mode when in auto run mode.
- DISPLAY: Set display parameter, eg. select language.
- TEST: Used for test light, modify DMX channel data to test function, the corresponding function of reference channel function table.
- ADVANCE: Set light running parameter.
- STATUS: view light current status.

Address	
WorkMode	
Display	001
Test	
Advance	
Status	
Escape	

Address	DMX Ctrl	✓
WorkMode	Auto Run	
Display	Sound Ctrl	
Test	M/S choose	OFF
Advance	Lamp On	OFF
Status	Channel Mode	sample
Escape		

Address	Langdage	中文
WorkMode	Screen saver	mode 1
Display	Screen rotation	OFF
Test	Touch Enable	ON
Advance	Touch adjust	
Status		
Escape		

Address	PAN	000
WorkMode	TILT	000
Display	FOCUS	000
Test	COLOR	000
Advance	GOBO	000
Status	PRISM	000
Escape	FROST	000
	STROBE	000

Address	PAN Inset	OFF
WorkMode	TILT Inset	OFF
Display	Rectify Enable	ON
Test	PAN Offset	008
Advance	TILT Offset	020
Status	Lamp on when pwr on	
Escape	Factory Setting	

Address	Work Mode	DMX ...
WorkMode	Address	001
Display	Version	B5R. 1.1 16n
Test	Elapse	000H 04M
Advance	Tatol	00000H 04M
Status		
Escape		

Figure 4 Parameter menu

Operation and parameter instruction

Via following operation, enter sub menu(parameter menu) shown in Figure 4

- In main menu, click 1/6 function button into corresponding parameter menu.
- In sub menu(page), click main item on the left side of display, can shift to corresponding sub menu(page) quickly.

Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't is not greater than (512-channels quantity), otherwise the light will not be controlled. Following is the operation:

Enter the page of DMX address, as shown in Figure 5, click the blank area in right side of display will pop-up dialog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

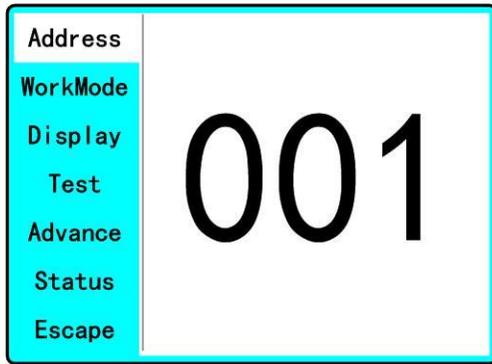


Figure 5 page of DMX Address

Set Light work mode

Enter the page of 'WORK MOD' as shown in Figure 6 and modify setting. Can

set light work mode, control lamp and DMX channel mode..

Light includes 3 work mode: DMX MODE, AUTO RUN and SOUND MODE, Parameter definition as following:

- **DMX Mode:** Under this mode, the light receive data from the DMX controller and move.
- **AUTO RUN:** Under this mode, light will run with inside code(data), ignore data from DMX controller.
- **SOUND Ctrl:** Under this mode, light ignore data from DMX controller., When there is a strong sound in stage, the light will run a scene, otherwise it will keep the last scene.
- **M/S Choose:** 'M/S Choose' is available when light just in 'AUTO RUN' or 'SOUND Ctrl' mode. If this item is set as 'OFF', the light don't send data to other light via DMX Cable. When 'ON', the data will send to other slave light immediately.
- **Lamp control:** Turn on lamp when this item is set 'ON', otherwise, turn off lamp. The gap between operation is limited to 30 second.
- **Channel mode:** Light support 2 DMX Channel mode: sample or extend.

Address	DMX Ctrl	✓
WorkMode	Auto Run	
Display	Sound Ctrl	
Test	M/S choose	OFF
Advance	Lamp On	OFF
Status	Channel Mode	sample
Escape		

Figure 6 page of work mode

Set display

Light support 2 language, rotation display, Enter page as shown in Figure7 to

set parameter following:

- **Language:** Select display as simplified Chinese or English.
- **Screen Saver:** when panel is idle(these is no operation in 10 second), displayer will enter saver status. When set as 'mode 1', saver status is close display, as 'mode 2' saver status will display DMX address code(DMX MODE) or display LOGO(AUTO RUN or SOUND CTRL). As 'OFF', keep light up displayer and show main menu。
- **Screen Rotation:** rotate displayer.
- **Touch enable:** Disable or enable touch function, when disable, use encoder to operate light and set parameter.
- **Touch adjust:** adjust touch function, normally, not enter this item.

Address	Language	中文
WorkMode	Screen saver	mode 1
Display	Screen rotation	OFF
Test	Touch Enable	ON
Advance	Touch adjust	
Status		
Escape		

Figure7 page of display

Test light

Enter the page as shown in Figure 8, Light will into test mode, in this mode, the light does not receive the data for DMX controller.:

- PAN: range for 0 to 255;
- TILT: range for 0 to 255;
- FOCUS: range for 0 to 255;
- COLOR: range for 0 to 255;
- GOBO: range for 0 to 255;

- PRISM: range for 0 to 255;
- FROST: range for 0 to 255;;
- STROBE: range for 0 to 255;。

Address	PAN	000
WorkMode	TILT	000
Display	FOCUS	000
Test	COLOR	000
	GOBO	000
Advance	PRISM	000
Status	FROST	000
Escape	STROBE	000

Figure 8 page of Test

Set light run parameter

Enter the page as shown in Figure 8, set the parameter of light:

- Pan Invert: Reverse PAN move.
- Tilt Invert: Reverse TILT mover.
- Rectify enable: set as 'OFF', PAN or TILT will disable position rectify function. As 'ON', when PAN or TILT lose steps, light will rectify auto.
- Pan Offset: Set PAN original position.
- Tilt Offset: Set TILT original position.
- Lamp up when: Select lamp on mode, includes 3 mode: power on, after reset done and manual;
- Factory setting: restore all parameter to factory setting.

Address	PAN Inset	OFF
WorkMode	TILT Inset	OFF
Display	Rectify Enable	ON
Test	PAN Offset	008
Advance	TILT Offset	020
Status	Lamp on when	pwr on
Escape	Factory Setting	

Figure 9 page of run parameter

View status

Enter the page as shown in Figure 10:

- View light current status, version;
- DMXClr: Click to clear all DMX data to '0'.
- SysRst: Click to reset light.

Address	Work Mode	DMX ...
WrokMode	Address	001
Display	Version	B5R. 1.1 16n
Test	Elapse	000H 04M
Advance	Tatol	00000H 04M
Status	<input type="button" value="DMX Clr"/> <input type="button" value="SysRst"/>	
Escape		

Figure 10 page of status

CHANNEL DESCRIPTION:

CH NO.	NAME	VALUE	FUNCTION
CH1	PAN	0~255	0~540°
CH2	TILT	0~255	0~270°
CH3	PAN FINE	0~255	
CH4	TILT FINE	0~255	
CH5	PAN/TILT SPEED	0~255	Fast to Slow
CH6	Frost	0-127	NONE
		128-255	Insert frost 0~100%
CH7	Dimmer	0-255	0-100% dimmer
CH8	Strobe	0-3	Dark
		4-103	Fast to slow strobe
		104-107	White
		108-207	Slow to fast strobe
		208-212	White
		213-251	From slow to fast strobe(Mode 2)
		252-255	White
CH9	COLOR	0-4	White
		5-9	White +Color 1
		10-14	Color 1
		15-19	Color 1 + Color 2
		20-24	Color 2
		25-29	Color 2 + Color 3
		30-34	Color 3
		35-39	Color 3 + Color 4

		40-44	Color 4
		45-49	Color 4 + Color 5
		50-54	Color 5
		55-59	Color 5 + Color 6
		60-64	Color 6
		65-69	Color 6 + Color 7
		70-74	Color 7
		75-79	Color 7 + Color 8
		80-84	Color 8
		85-89	Color 8 + Color 9
		90-94	Color 9
		95-99	Color 9 + Color 10
		100-104	Color 10
		105-109	Color 10+ Color 11
		110-114	Color 11
		115-119	Color 11 + Color 12
		120-124	Color 12
		125-129	Color 12 + Color 13
		130-134	Color 13
		135-139	Color 13 + Color 14
		140-144	Color 14
		145-149	White + Color 14
		150-199	Rotate forward (Fast -- slow)
		200-255	Rotate reverse (Slow -- fast)
CH10	GOBO	0-3	White
		4-7	Gobo1
		8-11	Gobo2
		12-15	Gobo3
		16-19	Gobo4

	20-23	Gobo5
	24-27	Gobo6
	28-31	Gobo7
	32-35	Gobo8
	36-39	Gobo9
	40-43	Gobo10
	44-47	Gobo11
	48-51	Gobo12
	52-55	Gobo13
	56-59	Gobo14
	60-63	Gobo15
	64-67	Gobo16
	68-71	Gobo17
	72-113	Rotate forward (Fast -- slow)
	114-117	Stop
	118-159	Rotate reverse (Slow -- fast)
	160-165	Gobo2,shaking slow to fast
	166-171	Gobo3,shaking slow to fast
	172-176	Gobo4,shaking slow to fast
	177-182	Gobo5,shaking slow to fast
	183-187	Gobo6,shaking slow to fast
	188-193	Gobo7,shaking slow to fast
	194-199	Gobo8,shaking slow to fast
	200-204	Gobo9,shaking slow to fast
	205-210	Gobo10,shaking slow to fast
	211-215	Gobo11,shaking slow to fast
	216-221	Gobo12,shaking slow to fast
	222-227	Gobo13,shaking slow to fast
	228-232	Gobo14,shaking slow to fast

		233-238	Gobo15,shaking slow to fast
		239-243	Gobo16,shaking slow to fast
		244-249	White,shaking slow to fast
		250-255	Gobo17,shaking slow to fast
CH11	PRISM	0-63	White
		64-127	Prisms 1
		128-191	Prisms 2
		192-255	Prisms 1+2
CH12	PRISM 1.R	0-127	Angle 0~400
		128-187	Rotate forward (Fast -- slow)
		188-195	Stop
		196-255	Rotate reverse (Slow -- fast)
CH13	PRISM 2.R	0-127	Angle 0~400
		128-187	Rotate forward (Fast -- slow)
		188-195	Stop
		196-255	Rotate reverse (Slow -- fast)
CH14	Focus	0-255	From far to near
CH15	Rainbow	0-127	None
		128-255	Insert Rainbow Effect
CH16	Reset	100-105	Turn off lamp (stay over 3 second)
		200-205	Turn on lamp (stay over 3 second)
		240-255	Reset light (stay over 3 second)

CLEANING AND MAINTENANCE



CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

- Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.
- Never use alcohol, solvents, or ammonia based cleaners.

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized service technician. Should you need any spare parts, please order genuine parts from your local dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.