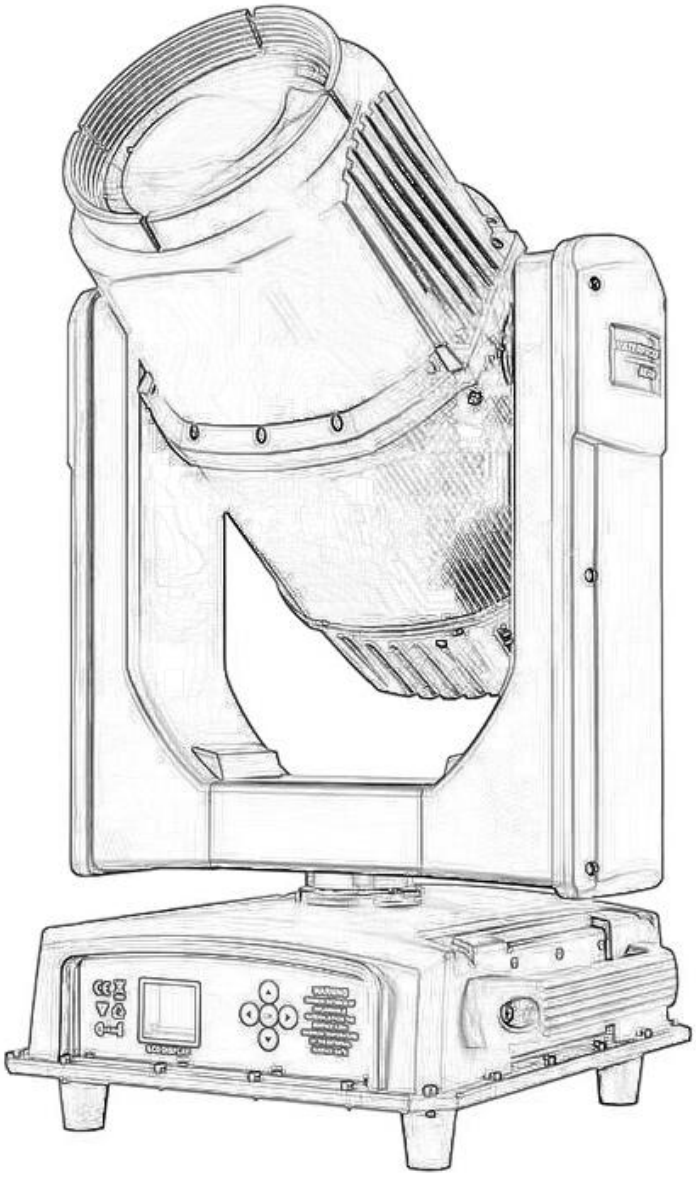
lighting PLUS

User manual



380 IP BEAM

Please read the instructions carefully before use

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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 can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

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.

•Unpack and check carefully there is no transportation damage before using the unit.

•Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

•It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

•The unit is for indoor use only. Use only in a dry location.

•The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

•Disconnect main power before replacement or servicing.

•Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

•Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

•Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

•the event of 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. Always use the same type spare parts.

•DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

•To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

•The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

•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.

2.Technical Specifications

Light Sources: 371W Osram White lamp

Max Power Consumption: 400W

Power Input: 100-240V, 50/60Hz

Beam range:2°

Display: LCD display

IP level: IP65

Operating mode: DMX512,Auto, Sound active, Master/slave，RDM

Channel mode: 16Channel

Pan: 540°(16bit) Electric correction

Tilt：270° (16bit) Electric correction

Color wheel: 13 colors +white

Static Gobo Wheels: 13 gobo+white

Prism: Double prism 8prism,16prism,8+16double prism superposition bidirectional variable speed rotation

Frost

0-100% linear dimming

Strobe: 0-25Hz/s

Dimension: 424*367*725mm,NW:27KG

3.Control Menu

Menu Operation

On the base of the control panel offers a number of features, such as setting DMX fixture address, switch the lamp, run the test program, the mode selection.

Stepper info	Display information status of all motors and signals in fixture.	
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback
	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
Error Logging	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
	Error Logging	Total number of failures detected after power on
	12：:03	The time of power failure when the fault occurs is in minutes.
	Hall error	The effective hall signal is not detected when the motor is reset
	Hall short	When the motor is reset, the hall signal of the motor is always effective
	Opti error	No effective optocoupler signal is detected when the motor is reset.
	Lose stop	The corresponding motor is out of step during its operation.
	Hit	Striking the positioning rod when the motor is reset
	Lamp error	Lamp explosion accident
	NTC error	The temperature sensor signal is abnormal
	Fan error	The main fan is not working properly.
Fixture status	Displays the critical state data of the current fixture for reference.	
	Communication prec	0~100%, Communication quality of internal data link of lamps and lanterns
	Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
	Light Temperature	Show the temperature of the current light source, "---" means no detection.
	Panel Temperatrue	Displays the temperature of the current display panel or the ambient temperature.
	Sensor1 Temperatrue	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
Version	Display the information and version of the current fixtrue, important reference for after sales maintenance.	
	Device	The name of the fixture is the same as the equipment information of RDM.
	Model	The type of fixture is the same as the model information of RDM.
	Panel	Firmware version and serial number of display panel
	Main Board	Firmware version and serial number of mother board 1
Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time	
Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.	

4.DMX Channels

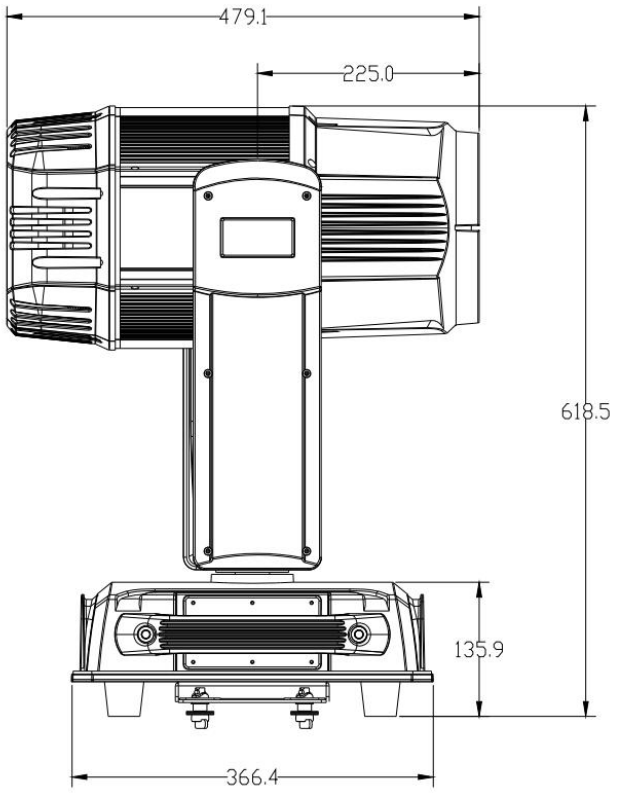
DMX channel´s functions and values (16DMX channels)

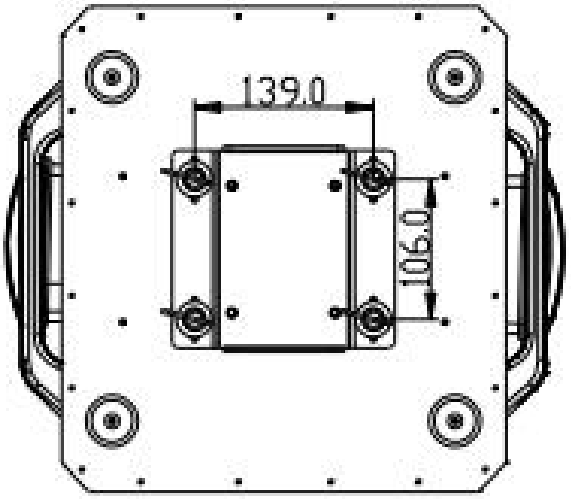
Channel	DMX Value	Function	Function Illustration
CH1	0－4	Color	white
	5－9		White+color1
	10－14		color1
	15－19		color1+color2
	20－24		Color2
	25－29		Color2+color3
	30－34		Color3
	35－39		Color3+color4
	40－44		Color4
	45－49		Color4+color5
	50－54		Color5
	55－59		Color5+color6
	60－64		Color6
	65－69		Color6+color7
	70－74		Color7
	75－79		Color7+color8
	80－84		color8
	85－89		Color8+color9
	90－94		Color9
	95－99		Color9+color10
	100－104		Color10
	105－109		Color10+color11
	110－114		Color11
	115－119		Color11+color12
	120－124		Color12
	125－129		Color12+color13
	130－134		Color13
	135－139		Color13+White
	140－199		Rotate forward (fast to slow)
	200－255		Rotate reverse (slow to fast)
CH2	0－0	Strobe	close
	1－4		Open
	51－240		Slow strobe to fast strobe
	252－255		Open
CH3	0－255	Dimmer	0-100%
CH4	0－4	GOBO	White
	5－9		Gobo 1
	10－14		Gobo 2

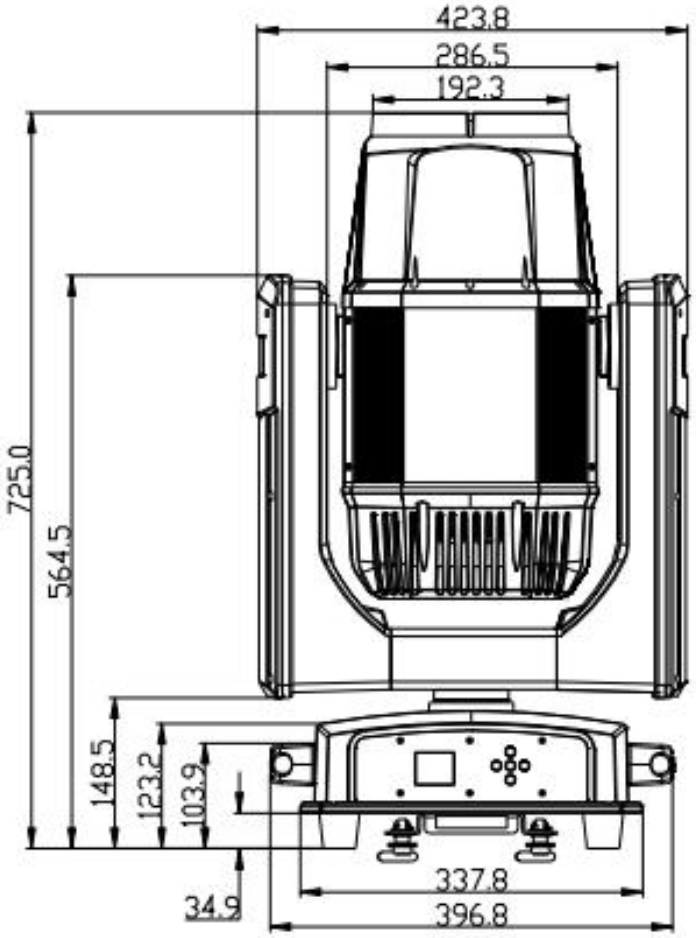
CH4	15－19	GOBO	Gobo 3
	20－24		Gobo 4
	25－29		Gobo 5
	30－34		Gobo 6
	35－39		Gobo 7
	40－44		Gobo 8
	45－49		Gobo 9
	50－54		Gobo 10
	55－59		Gobo 11
	60－64		Gobo 12
	65－69		Gobo 13
	70－128		Rotate forward (fast to slow)
	129－131		White
	132－190		Rotate reverse (slow to fast)
	191－195		Shake slow to fast Gobo1
	196－200		Shake slow to fast Gobo2
	201－205		Shake slow to fast Gobo3
	206－210		Shake slow to fast Gobo4
	211－215		Shake slow to fast Gobo5
	216－220		Shake slow to fast Gobo6
	221－225		Shake slow to fast Gobo7
	226－230		Shake slow to fast Gobo8
	231－235		Shake slow to fast Gobo9
	236－240		Shake slow to fast Gobo10
	241－245		Shake slow to fast Gobo11
	246－250		Shake slow to fast Gobo12
	251－255		Shake slow to fast Gobo13
CH5	0－63	Prism	None
	64－127		Insert prism1
	128－191		Insert prism2
	192－255		Insert prism1&prism2
CH6	0－127	Prism1 ROTATION	0-400 degrees
	128－191		Rotate forward (fast to slow)
	192－255		Rotate reverse (slow to fast)
CH7	0－127	Prism2 ROTATION	0-400 degrees
	128－191		Rotate forward (fast to slow)
	192－255		Rotate reverse (slow to fast)
CH8	0－127	Frost	No function
	128－191		Insert Frost
	192－255		Insert Colorful
CH9	0－255	Focus	Focus
CH10	0－255	Pan	Pan

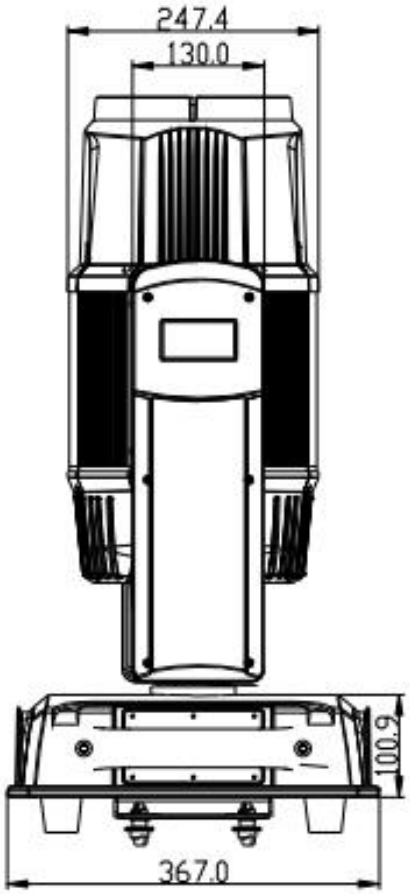
CH11	0－255	Pan fine	Pan fine
CH12	0－255	Tilt	Tilt
CH13	0－255	Tilt fine	Tilt fine
CH14	0－255	Pan/Tilt speed	Pan/Tilt speed from slow to fast
CH15	26－76	RESET	Reset EFT over 3 seconds
	77－127		Reset XY over 3 seconds
	128－255		Reset ALL over 3 seconds
CH16	10－100	LAMP	Lamp off over 3 seconds
	101－255		Lamp on over 3 seconds

5.Dimension


479.1
225.0
618.5
135.9
366.4


139.0
106.0


423.8
286.5
192.3
725.0
564.5
148.5
123.2
103.9
34.9
337.8
396.8


247.4
130.0
100.9
367.0

6.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on

PCB of the unit or the previous one.

4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motors drive IC on the PCB might be out of condition

7.Fixture Cleaning

The cleaning of internal and 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 surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.