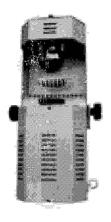
periodically to guarantee safe use.

SCANNER LIGHT USER'S MANUAL



SCANNER LIGHT

Preface

Welcome using the series of scanners our company produced. This series of scanner, as the multi function, flexible usage and advanced light of modern optics lights, are mainly used in KTV, TV studio and other recreational grounds, especially fit the circuit performances and other flow shows..

Brief Introduction

Scanner. It's specification as follows.

- ●lamp: LED 25w
- ●8 basic colors +white
- ●8Gobo + Open
- controllable flash frequency and shetter
- pan 180°, Tilt 75°
- standard DMX512 controlling .4DMX channels
- sound activate mode
- cool fan
- energy saving: the lamp will be turned off automatically when the flash end
- power supply:AC110v-120v/60HZ or AC200v-240v/50HZ
- power cosumption:280w
- motor: 3mini-motors are controlled by the inner mini working system
- working environment: inside –20-40
- •size:510*240*220mm
- •weight:4kg

Inform Respectfully

In order to insure your use of this light for long time, safely and credibly, please read this Manual Instruction carefully before using, therefore you will be away from the unnecessary malfunctions and injury.

I. Installation and Requests

- 1. Before install it, please check if components of machine has loosed to move or shed off due to transportation, if the electric appliances circuit to electric resistance still keep safely technique parameter to the machine cover; know about the principle of electric appliances connects and the sketch map of low-lines.
- 2. Strictly forbid to install when the power is on, and install want to be firm, perpendicular, the outer shell connects the ground.

3. While installing the equipment, please make sure that there is no extreme flammable and easy-exploded object in 1 meter.

4. While choosing the equipments installing position, please insure the ventilated fan and rows don't stop by other flammable or easy-exploded objects.

5. This equipment should keep away from the rain and moistures, please cut off the power before opening the outer cover. This equipment is the necessary Effect light of stage which can be set up according to the request of stage. Through two interfaces of lamp, please connect many lights parallel with the matched signal line and connect the two sockets of controller and lamp. This light can be hanged as Color Changer, and guarantees that the weight of this equipment is within the scope of the hanged weight.

6. Security cable is demanded to circle the frame for safety after installed.

II, The Replace of Bulb

1. Cut off the power supply first, revolve out the screws of back board and pluck the board out of the box, then take out the bulb carefully.

Use the same type and the same power of bulb (suggest to purchase it from the dealer or the factory directly), install it according to the negative step. When you install it, please don't touch the glass part of bulb with hands and oiliness things.

Note: While installing the bulb, both ending screws of bulb should be parallelized perfectly and tightened greatly, otherwise maybe get

fire or damage the lamp.

III. Gobo Adjustable

The focus of precise lens is adjusted before leaving factory, so the use time can be adjusted according to the spatial space. You can pluck or turn canister with optics lens as your need after the light on to adjust the proper place.

IV. Operation Description and Remarks

Please check if the power voltage is suit for the rated voltage first before turning it on, high or low voltage both will influence the service life and the effect of light, please necessarily stabilize the technique parameter of input power voltage in use. In the area in which the voltage changes greatly, 220v is suggested in order to meet the rated voltage of the light equipmen. The product is the top-protecting equipment, so the earth line should connects with the earth perfectly. Insure the safe usage. When the light is on, don't touch the crust with the alarm symbol and be away more than 1 meter for safety. This lamp has the thermo-protect function and can switch on to postpone, the host computer chip will need 30 seconds to start reset after turning on the lamp.

V , DMX512 Connection

Controller output DMX512 standard signal, connects via output and input...The three pin XLR 1 is grounding, 2 is negative and 3 is positive, or change 2 and 3 (The controller generally don't need to change these two pins). The length of signal cable should be within 100 meters, to avoid the interference by other electric appliances because of too long signal cable. Big electric cable or signal-amplifier is suggested to use for the long time. Please use the step output cable, matching with the socket, output connector connects with the input connector of the next equipments.

Don't dismantle output cable into two ouput cable, and it can not over-loaded. One line maximan can connect with 32 machines.

When use digital control input signal, all equipments must have one digital ADD number, for purpose of relevant lamp and relevant control signals working, and this ADD No. is a band Number. Light machine starting is obeyed to the control signal which transmitted out by controller.

Each Scanner is to obey a group of 4 band signal, they all start with the one given digital ADD signal that is given in advance, and the allotment of these addresses is set by the light DIP address code.

Example 1: If the controller has 10 channels, so the first light ADD is 1, the relevant ADD is 1, then turn on address 10 convert to DMX512 signal, so the first light should turn on ADD 1; the formula of the second light is 1 add the number of channels 10=11(11=1+2+8), then the second lamp should turn on1, 2 and 4 addresses of;...the sixth light formula is 1+10+10+10+10+10=51(51=1+2+16+32), so the sixth lamp should pull out 1, 2,5 and 6. And so on.

Example 2: If the controller has 16 channels, the start address of the first light is 1, and the relevant address is 1, so the first light should turn on ADD 1; the formula of the second light is 1 and the number of channels 16, which equal 17(17=1+16), so the second lamp should turn on ADD 5 and 1;...the formula value of the sixth light is 1+16+16+16+16+16=81(81=1+16+64), so

the sixth light should turn on 1, 5 and 7+10. And so on. Take the usual DMX512 controller as an example, the controller has16 channels, so the ADD of each light can turn on to take the row as follows:

Light 3. Single and data

channel1: pan (x) channel2: tilt (Y) channel3: gobo

channel4: light controller

channel specification:	Market 1	
DMX512channel	DMX512data show	Detail specification
1. pan	0~255	P4F
2√ tilt	0~255	100
3 gobos	0~5 6~11 12~17 18~23 24~29 30~35 36~41 42~47 48~53 54~59	Turn off light Torn on light Gobo1 gobo2 gobo3 gobo4 gobo5 gobo6 gobo7 gobo8

DMX512channel	DMX512data show	Detail specification
	60~65	goboland gobo 2exchange
	66~71	gobo2and gobo 3exchange
	72~77	gobo3and gobo4exchange
	78~83	gobo4and gobo5exchange
La contract to the	84~89	gobo5andgobo6exchange
	90~95	gobo6and gobo7exchange
3 gobos	96~101	gobo7andgobo8exchange
	102~171	gobo stream from slow to fast
1.0	172~251	fast gobo stream white flash
	1. 4	from slow to fast
1 5	252~255	
		white
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0~7	Turn off the light
4. lighting control	8~247	Turn on the light
14	248~255	Insisting 5 seconds reposition

VI. Trouble and Solutions 3. If you the bulb isn't on, cut off the power and check if the fuse and the

temperature controller functions; if the fuse wrong, replace the same fuse (for example: F5A250V is instead by F5A250V, the different is forbidden); if they are OK, please check if the bulb burned or not, if burned the lamp you must replace it at once. If the motor doesn't work, cut off the power first, checking if fuse is

function; if the fuse is OK, please check if the motor is good or not ... otherwise replace the motor.

5. When other parts appear the excrescent phenomenon, don't strip it yourself, ask professional people check and fix. VII. Notes

After opened the package box, please check the whole light carefully, if find that the lamp damaged or have the accessories lapse, please contact with the supplier immediately.
This light equipment can be delivered by any conveyance after

packed, but should avoid rain, snow and machine damage. This light should be kept in the temperature of -20 - 40°C. The harmful air or flammable and easy-exploded chemical objects

should be kept away from the warehouse, and the violent vibration and strong magnetic field interferences should also be avoided. . Power cable should be chosen according to the power of the light.

When use the controller, avoid the surrounding interference as possible as you can (for example: interphone, high frequency emission, etc.).

Don't turn ON/OFF the power at random. Turn on the light again must after 20 minutes later in order to cool down the bulb 6.

completely. Check firmware, the move of mechanical ware and the damage of line 7. periodically to guarantee safe use.

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	B. 0/843 / 1	Detail and off and an
DMX512channel	DMX512data show	Detail specification
3 gobos	60~65 66~71 72~77 78~83 84~89 90~95 96~101 102~171 172~251 252~255	gobo1and gobo 2exchange gobo2and gobo 3exchange gobo3and gobo4exchange gobo4and gobo5exchange gobo5andgobo6exchange gobo6and gobo7exchange gobo7andgobo8exchange gobo stream from slow to fast fast gobo stream white flash from slow to fast
4. lighting control	0~7 8~247 248~255	Turn off the light Turn on the light Insisting 5 seconds reposition

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Don't turn ON/OFF the power at random. Turn on the light again must after 20 minutes later in order to cool down the bulb completely.

Check firmware, the move of mechanical ware and the damage of line 7. periodically to guarantee safe use.

- Don't look at the beam directly or it will hurt your eyes. Confirm the fan working perfectly before turning on the light. Forbid to use the light under the condition of cooling system.
- This light can not be used for too long time once; otherwise the lamp damage easily, the suggested longest time is no more than 6 hours.
- The proper working voltage is 220V, 50 Hz, and the voltage should not lower than 220V or higher than 240V, otherwise the bulb will damage or work falsely and shorten the normal service
- life of the light. In the process of operating, if discover some light breakdown, please pause to use this light, avoid to use the light long time under non normal condition.
- In the process of operating, if the control signal in mess or out of control, checking if the control signal of the light is wrong or not or short-circuit.
- To avoid interference of anti-signal, the power supply and controllers of each light must connect with the ground and the connection must be good and dependable. Keep maintain the equipments timely. (Include the examination of
- the screws, the lamp sweeps etc.) VII. The Operation Hint 1. The operation method, the guidance and the notices are jotted down
 - very simple in the book, so read it carefully before use the product. 2. If don't understand the operation method, read this manual carefully in order to operate by exactitude rather than depend on your own judgment.
 - 3. The laypeople please not dismantle or replace the spare parts (the machine spare parts and the PCB electronics component). If meet difficult technique problems and maintenance, please contact with the
 - dealer or the manufacturer directly. 4. If don't obey the request of this manual but meet trouble result in without authorization, or occur breakdown, factory will be all irresponsible.
- IX. Maintenances Confirm the power has cut off before separate the light or do any other maintenance. Keep the light clean is very important. Dust and oil enter into the light or touch the machine is prohibited, if happened, the brightness of the light will weaken,, keep the light clear can not only guarantee the brightness of the light, but also can prolong the lifetime of the machine. High quality clear liquid and silk is suggested to

wheel can be cleaned by soft brush. Keep maintain the equipments timely and check the loosen degree of screws in every part. The inside of lamp can use the vacuum to clear it, at least one year clear once. Color wheel, color filter and Gobo wheel should be cleaned at least once/month. X \ Operation description

clear the Moving Head light. Alcohol and Chemical Liquid is prohibited at any time, gobo

Turn the DIP switch, the light may choose the function:

1 - 9: DMX Receive Mode

M/S Mode (1-6 control and setup the program of lamp, 7-9 control the speed) 10: DMX Receive mode (no function)

M/S Mode converse between automatism and sound activate. 12: Converse between pan channel and tilt channel.

13: the method of conversing the pan channel

14: the method of conversing the tilt channel

1. DMX Receive Mode: Dial 11 to OFF, the light is the DMX receive mode, 1-9 setup

the ADD No. 2. Master-Slave Mode: Dial 11 to ON, the light is the master-slave mode including automatism and sound activate.

3. Auto Mode Master lights: Dial 11 to On, 10 to OFF is the auto mode, dialing 1-6 can run six programs, for example: if dial 1,3 to ON, the program 1, 3 run, and 7, 8, 9 control the speed of

programming.	Bit7,8,9state	. Second/step
. 1	000	· 2
. 2	100	3/2
3	010 .	1
4	110	3/4
5	001	1/2
6	101	3/8
7	011	1/4
8	Ш	1/5

Slave light: dial 11 to OFF. 4. Sound Activate Mode

Master lights: dial 11 and 10 to ON, the light is sound activate mode, dial 1-6 to run six programs, for example: if dial 2, 4 to ON, program 2, 4 will run, 7, 8, 9 will stop running. Slave light: dial 11 to OFF. If the light is master-slave mode, the master light sends 16CH DMX data to slave light, if

the address of slave light is 1, 5, 9, 13, the relationship between master light and slave light is as following:

ON	Master Address	Master Channel	Relationship
1	01	1, 2, 3, 4	same
2	05	5, 6, 7, 8	gobo color tilt same pan opposite
3	09	9、10、11、12	gobo color same tilt pan opposite
4	13	13、14、15、16	gobo color tilt opposite pan same