DAGE Stage Lighting Master Co., Ltd

AV-2320 Super Bumblebee 230W 7R Beam Light <u>User Manual</u>



CE, RoHS APPRIVED

(Before operating this item, please read this instruction carefully)

DAGE Stage Lighting Master Co., Ltd

DAGE NOTICE ON SAFETY

Thank you for purchasing 20CHS AV-2320 (230W) 7R Beam Light

PLEASE READ AND FOLLOW THE FOLLOWING OPERATING PROCEEDURES:

- Power requirements for this item is <u>AC110V-260V</u>, <u>50-60HZ</u>. In order to minimize the possibility of short circuits which may cause damage it should be located in dry and well ventilated area.
- Do not install near a heat source, in order to avoid the fixture from overheating which may result in damage to the lamp.
- Don't jam the vent hole, ensure the ventilation and heat dissipation in good condition.
- Always connect with a grounded power supply which is consistent with the rated voltage.
- Due to the characteristics of gas discharge lamp, **NEVER** turn the switch on/off. If the power is cut off and needs to start again, WAIT 15 MINUTES too ensure the fixture has cooled down, otherwise the bulb will be seriously damaged..
- If the bulb, lenses, fuse or stepper motor is damaged, they should be replaced with the same type.
- There is no any spare parts inside, need to ask DAGE for the original one when maintaining.
- Any requirement of maintenance, please connect with DAGE professional staff or DAGE agency which is the nearest from you.

LAMP

Never touch lamp with bare hands! In order to avoid the oil pollution this will shorten the life of the lamp. The fixture movement is allowed after cooling, avoid violent vibration.

Do not look directly at the bulb when it is lighting this may cause sever eye damage. The distance from light to other object should be 1.5 meters

Do not use the bulb over its life time.

DAGE INSTALLATION INSTRUCTIONS

Fixture installation

DAGE Stage Lighting Master Co., Ltd

It's suitable for ceiling installation or setting on the ground, for the fixed ceiling installation please choose G type hook, the lamp body's handle and the G type hook must be fastened together tightly, then hang on the scaffold, suggest to install the security rope.

Notice: Do not install in places where it is easy to vibrate and become loose!

Do not install in near curtains or flammable materials!

Bulb's installation and replacement

- * Turn off the power for cooling with 20 minutes, after the lamp body cooling down then operate again.
- * Don't turn on the power again when it was turn off within 5 minutes, for preventing the bulb will explode.
- * Removing the light bulb, the first step you should screw the four screws out of the casing then according to the actual situation, open the removable metal plate which was used for fixing the bulb and replace the bulb, adjusting the position of the bulb accurately, the light will achieve more ideal effect.
- * Replace defective bulbs with the same type, after fixing the metal plate, screw the casing with four screws.
- * For ensuring the best effect , the bulb must be installed in central location .

DAGE FUNCTION INSTRUCTION

Large beam 230W light beam (rhubarb peak) using the international standard DMX 512 receiving work, through the LCD touch screen and rotary buttons, operation-related functions, can accept any, with international standards DMX 512 signal output light console.

Technology Parameters:

		T	1
Item	AV-2320 (230W) (7R)	Voltage	AC100V-220V
Name	【Bumblebee】Beam light	Gobo	1 fixed (metal) gobo wheel (13 gobo+white)
Lamp	DAGE 230W (7R)	Color	13colors+white
Strobe	1-15times/second	Prism	8+40+56(honeycomb prism effect)
Control	International DMX512	Cooling	Fan convection cooling, high temperature protection

8	on pie Xse choos	15,540° pritted bekill arti 101	muong Y erij no	page 260° noted ten palito ad e	Manga si
0.00	Size	250×350×513 (mm) ad law	o sonwie c	and 13.5kg and a vood grant arts	
				suggest to install the security rope	
-		e and become toose?	isidiy of vise	a heady appliq or train the off	

la de la companya de	Channel Mode Tiell to articine Ties to the
Channel	20CHS
1	X
2	* Bulb's installation and replacement.
3 sees elstege nerft	Turn of the power for cooling with 20 minutes, after the lamp body beeqs YX.
4	
5	Stop/strobe
6 0 a nedi poleso er	Color wheel the light built, the first step you should screw the four leadw rolog
7	Gobo wheel
8	Gobo shaking
9 338784	Frost was a light position of the bulb accurately the light will at the restriction.
10	Six-color mirror
11	Prism 1
12	Prism 1 rotation
13	Prism 2
14	Prism 2 rotation
15	Focus
16	Prism macro function and and and and and and and and and an
17	Lamp control
18	Reset los est international sur (mubaro peak) using the international star of teast
19	X Fine tuning that height-nodered country waster has need to to to to the country of the country
20	Y Fine tuning

Channel parameter value:

01 (omit) PAN - channel [X] **02** (omit) [Y] TILT - channel

03 Pan-Tilt time - channel

BIT	Timing (Sturn)	Effect	Remark
	Channel Market	0003	
0- 255,slow-fast	Pan-Tilt time	Pan-Tilt-(Panfine-Tilt	0- 255,alow-fast
	A STATE OF THE STA	fine)	
255-0,fast-slow	s o souvemontage	115 × 8	255-0,fast-slow

DIMMER - channel 04

BIT EFFECT Effect Remark	

DAGE Stage Lighting Master Co., Ltd

-	4-255	100%	Brightness	dark to brightness, 255
AAAAAAAAAAAAAAA			0%-100%	is full open.
	0-3	CLOSED	Shut the light	light is fully closed

STOP/STOBE - channel 05

BIT	EFFECT	Effect	Remark
250-255	OPEN	shutter open	Dimming channel control
11-250	STROBE	strob(slow to fast)	strob(slow to fast), on the contrary,(fast to slow)
0-10	CLOSED	Shutter closed	light is fully closed

COLOUR WHEEL - channel 06

BIT	EFFECT	Effect	Remark
201-255	Slow to fast rotation (Reverse)	Slow to fast rotation (Reverse)	For remember
140-200	Slow to fast rotation (Positive)	Slow to fast rotation (Positive)	easily, color value was settled as
135-139	Heating (Cold light) and White half-color	Heating (Cold light) and White half-color	multiple of 5.
130-134	Heating (Cold light)	Heating (Cold light)	Linear variation:
125-129	Pink and Warm half-color (cold light)	Pink and Warm half-color (cold light)	Color ratio is adjustable. For example: if
120-124	Pink	Pink	value is 5, white
115-119	Shallow sky blue and pink half-color	Shallow sky blue and pink half-color	50%, Crimson 50%,if the value is
110-114	Shallow sky blue	Shallow sky blue	4, white 60%,
105-109	Cooling lenses and Shallow sky blue half-color	Cooling lenses and Shallow sky blue half-color	Crimson 40%. if the value is 6, white
100-104	Cool color (2500K) / warm color	Cool color (2500K) / warm color	40%,Crimson 60%.
95-99	Orangeand coling half-color (warm color)	Orange and coling half-color (warm color)	Non-linear variation: Color to
90-94	Orange	Orange	be adjusted with color units.
85-89	Sky blue and sky orange red halftone	Sky blue and sky orange red halftone	Color film can be "linear"and
80-84	Sky blue	Sky blue	"non-linear"
75-79	Light green and sky blue	Light green and sky blue	selected by setting

	half-color udged of what	half-color	menu. / VV/	333.4
70-74	Light green Hadd hat as	Light green	The second secon	Net the Colonial Colo
65-69	Orange and light green	Orange and light green		The state of the s
	half-color	half-color	JO Jannado -	STOPISTOR!
60-64	Orange	Orange for the state of the sta		
55-59	Rose red and orange half-color	Rose red and orange half-color		
50-54	Rose red of workloads	Rose red ^{vois})dotia	$+p^{i}$	g rights
45-49	Yellow and rose red half-color	Yellow and rose red		
40-44	Yellow	Yellow	TREATMENT AND	
35-39	Blue and yellow halftone	Blue and yellow halftone	EEL channel 06	COLOUR WI
30-34	Blue	Blue	EFFECT	
25-29	Green and blue half-colorname to 3	Green and blue half-color of decrees	Stow to tast to	
20-24	Green sasily color needs	tation Slow to fac neerD :		
15-19	Red and Green half-color	Red and Green half-color	Positive . Heating - Cold light	
10-14	RED	Red Recommendative	White half-color	
5-9	Red and white	Red and white halftone	Meating - Cold light	
	alternating half-color	arm Pink and Warm half-	1	
		t i cold tight)	riga alaa - www.lisri	
0-4	WHITE See of See	WHITE	A CONTRACTOR OF THE CONTRACTOR	

STATIC GOBO CHANGE - channel 07

BIT	EFFECT De militim A	Effect ould vite wollsnig	Remark
200-255	Pattern Slow to Fast	Pattern Slow to Fast	Each 10 values
	Transition (Reverse)	Transition (Reverse)	corresponds to a
140-199	Pattern Slow to Fast	Pattern Slow to Fast	pattern pattern
	Transition (Forward)	Transition (Forward)	Cool color : 2500)
130-139	GOBO 13	GOBO13	warm color
120-129	GOBO 12	GOBO12, Spread paid	The value of the
110-119	GOBO 11	GOBO11 _{6W - 10lo Med} - 10	switching pattern is
100-109	GOBO 10	GOBO10 sonsy)	always a multiple of
90-99	GOBO 9	GOBO9	ten
80-89	GOBO 8	GOBO8	Sky blue and sky or
70-79	GOBO 7	GOBO7	red halltoov
60-69	GOBO 6	GOBO6	
50-59	GOBO 5	GOBO5 & neerg high auld	

DAGE Stage Lighting Master Co., Ltd

No. of Concession, Name of Street, or other Persons, Name of Street, or ot			-
40-49	GOBO 4	GOBO4	
30-39	GOBO3	GOBO3	
	GOBO 2	GOBO2	
20-29	GOBO1	GOBO1	
10-19	WHITE	WHITE	m particular states
0-9		PARTIES COLOR DE LA COLOR DE L	washing the second of

GOBO SHAKE - channel 08

BIT	EFFECT	Effect	Remark
190-255	The pattern shake still	The pattern shake still	Prerequisite
2-190	Patterns from slow jitter to fast jitter	Patterns from slow jitter to fast jitter	pattern is greater than 10 less than 190 will jitter
Company of the Compan	The pattern jitter stops	The pattern jitter stops	

FROST - channel 9

BIT	EFFECT	EFFECT	REMARK
128-255	FROST INSERTED	FROST	
120-200		INSERTED	
0-127	FROST EXCLUDED	FROST	
0-127		EXCLUDED	

FROST2 - channel 10

BIT	EFFECT	EFFECT	REMARK
128-255	FROST INSERTED	FROST	
120 200		INSERTED	
0-127	FROST EXCLUDED	FROST	
0 121		EXCLUDED	

PRISM1- channel 11

BIT	EFFECT	EFFECT	REMARK
128-255	PRISM1 INSERTED	PRISM1	
		INSERTED	
0-127	PRISM1 EXCLUDED	PRISM1	
		EXCLUDED	

PRISM1 ROTATION- channel 12

PRISM1 ROTA	TION- channel 12		AND
191-255	Prism 1 from slow to fast rotation (reverse)	Prism 1 from slow to fast rotation (reverse)	is inserted and rotated, the prism 1
128-190	Prism 1 from fast to slow rotation (positive)	Prism 1 from fast to slow rotation (positive)	retracts and stops the rotation.

90 jermanu gya

		The second secon		The state of the s
7	The same of the sa		DOCITION	
- [A 127	POSITION	POSITION	
- [0-127	, 00111011		

PRISM1- channel 13

BIT	EFFECT	EFFECT	REMARK
128-255	PRISM1 INSERTED	PRISM1	
		INSERTED	A A A A A A A A A A A A A A A A A A A
0-127	PRISM1 EXCLUDED	PRISM1	
		EXCLUDED	

PRISM2 ROTATION- channel 14

191-255 Prism 2 from slow to fast		Prism 2 from slow	When the prism 2
	rotation (reverse)	to fast rotation	is inserted and
		(reverse)	rotated, the prism 2
128-190	Prism 2 from fast to slow	Prism 2 from fast to	retracts and stops
	rotation (positive)	slow rotation	the rotation.
		(positive)	
0-127	POSITION	POSITION .	The second

FOCUS - channel 15

BIT	EFFECT	EFFECT	REMARK
1-255	100%	100%	focus up and down
0	0%	0%	sliding range The most primitive
		The second secon	state or saves.

Prism Function-channel 16

BIT	EFFECT		EFFECT	REMARK	
150-255	PRISM1 IN	SERTED	PRISM1	-	
			INSERTED		
0-149	PRISM1 EX	CLUDED	PRISM1		
			EXCLUDED	I to tear.	

LAMP CONTROL - channel 17

BIT	EFFECT	EFFECT (1984)	REMARK
201-210	LAMP ON	LAMP ON	
101-110	LAMP OFF	LAMP OFF	Lamp switch passing through the
其它值	UNUSED	UNUSED	unused range and staying 5 seconds.
	RANGE	RANGE	Si ipanado Milia

RESET - channel 18

	Control of the Contro
BIT EFFECT EFFECT REMARK	E SHARE WAS PER CHICAGON
BIT EFFECT REMARK	
A A SECTION AND A SECTION ASSOCIATION AND A SECTION ASSOCIATION ASSOCIATION AND A SECTION ASSOCIATION AS	

DAGE Stage Lighting Master Co., Ltd

250-255	COMPLETE RESET	COMPLETE RESET	Reset is activated passing through the unused range and staying 5 seconds.
0-249	UNUSED RANGE	UNUSED RANGE	In addition to the motor reset range of data, the other was invalid data

PAN FINE - channel 19 (Omit) 【X Fine tuning】
TILT FINE - channel 20 (Omit) 【Y Fine tuning】

DAGE OPERATING INSTRUCTIONS

Display function keys description

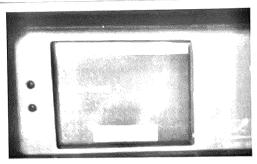
- 1. In the main interface, turn the wheel, select the "setting" button
- 2. Press the wheel and release, go to "settings" interface
- 3. In the "setting" interface, turn the wheel, select the function
- 4. Press the wheel and release, enter the Edit State
- 5. Turn the wheel, modify the function you want
- 6. After modification, press the wheel and release, exit Edit State
- 7. Turn the wheel select "back" and then press the wheel and release, back to the main interface
- 8、 LCD screen touch also has the same operation function.

1.1. Main Interface



- 1. The upper right corner of the three buttons for language switching and screen rotation.
 - 2. The bottom row of 4 functions corresponding sub-interface is described below.
- 3. Sub-interface mode of operation is to touch and wheel, if it is with the wheel, the corresponding relationship is as follows:
 - (1) Turn Left
 - (2) Turn Right
 - (3) Down wheel

DAGE Stage Lighting Master Co., Ltd



If want "OK", please down wheel $_{\circ}$ If "Cancel", please turn the wheel $_{\circ}$

1.2. Setting the interface

Options		Instructions	
Operating Mode	DMX	Slave status: Receive DMX signal from controller or host	
·	Auto	Host status: Auto-operation, and send DMX signal to Slave. Attention: It won't light bulb automatically if the bulb is in extinguished state before. If you need to see the light effects, please light bulb first then into automatic state	
DMX address	1~512	Press OK key to enter the Edit State. Hundred is selected, press "up" "down" key to adjust address code. Press again the OK button to select the ten edits. Press	
ata an in a said and a		again the OK key to select the single edit. Press again to exist the Edit State	
X reverse	OFF		
	ON		
Y reverse	OFF		
	ON		
XY exchange	OFF		
	ON	Exchange the channels of the XY-axis(including fine)	
XY encoder	ON	Use an encoder(optocoupler) to judge out of step and automatically correct position	
	OFF	To correct position without encoder(optocoupler)	
No DMX signal	Stay	According to the original state continues to run	
	Clear	Motor return, stop running	
Screen protection	ON	Turn off the backlight after 30s idle	
	OFF	The backlight always on	
Power on light bulb	OFF	Direct reset after power on, with the bulb off(need to use menu or console	
		manually light bulb)	
	ON	Auto light bulb after power on, and reset after the bulb light eventually	
Restore default		Press the OK button after seeing the confirmation dialog box, press OK key to	
settings		restore the default setting	

1.3. Information interface

Options	Instructions

DAGE Stage Lighting Master Co., Ltd

Software version	The current software version		
Total use time	Cumulative time(to the minute)		
This use of time	Since the start of the use of time(accurate to the minute)		
DMX channel value	Enter the sub interface, channel values are displayed in numerical and percentage for		
DIVIX	viewing		
Error information	Instructions		
Motor reset failed,	The driver board does not respond. There is a problem with the serial communication		
serial port error	line connecting the display board and the driver board, or there is a problem with the		
30,,,,,	drive board.		
X-axis reset failed	X-axis photoelectric switch, or X-axis motor problems		
Y-axis reset failed	Y-axis photoelectric switch, or Y-axis motor problems		
X-axis Hall error	X-axis Hall problem		
Y-axis Hall error	Y-axis Hall problem		
Color wheel reset	The color wheel, or the color wheel motor has a problem		
failed			
Gobo reset failed	A pattern plate, or a problem with the gable plate motor		
Focus Reset failed	Focusing the hall, or the focus motor has a problem		
Prism Focus Reset	Prism Focusing Hall, or Prism Focusing Motor has a problem		
failed			
Lamp control failed	Bright bubble or bubble failure, light or bulb problems		
Bright bubble for too			
long, please change			
bubble!	"Advanced" menu to clear the bubble time, bright bubble time to recount.		

1.4 Manual control interface

This interface is used to control the current lamps, neither slave state (does not receive DMX signal, nor the host state(do not send DMX signal)

Options		Instructions
Keset		After press the OK key seeing the confirmation dialog box, click the OK
and the same of th		button again, enter the reset interface, all motor reset
or wheel	0~255	Press OK key to enter the Edit State. Hundred is selected, spin "left" "right"
₹ · · · · F. &	0~255	keys changing the channel value. Press again the OK button select the ten
ි ාo speed	0~255	edit. Press again OK key to select the single digit edit. Press again to exit the
Thursday of Management		Edit State
emp control	ON	
· · · · · · · · · · · · · · · · · · ·	OFF	

DAGE Stage Lighting Master Co., Ltd

1.4. Advanced interface

- 1. The password is "up and down up and down", it is for the runner "left right left right"
- 2. Runner processes: one to the left (the 1th "*"), then turn right (the 2nd "*"), then turn left(the 3rd "*"), then turn right(the 4th "*"), and finally press wheel for password validation.

	Instructions
correct data is received a	tion interface, follow the crosshairs prompts to touch the corresponding position. If the at all four positions, complete the calibration and save the calibration data a process will continue to cycle, you can at any time by pressing the "OK" key interrupt
calibration	ou can adjust the X-axis, Y-axis, such as the reset position of the motor to make up for
hardware installation error Unlike the address and respectively, and does not Notice: Do not perform stop before performing	channel values, the reset calibration does not support one, ten, or hundred digits, of support long press, but must be calibrated in steps of 1 a reset calibration while the motor is running! If the motor is running, allow it to
time	0-9999 Hours, the maximum operating
Bright bubble time is cleared	After clearing, the bright bubble time is recalculated
Sensor monitoring	Real-time monitoring lights on a variety of photoelectric switches, Hall and other sensor status

Connect the fixture to the console

Using three-pin XLR plug to connect the lamp, from the DMX512 signal console output port is connected to the No. 1 lamp input port, in the No. 1 lamp output port is connected to No. 2 lamp input,

DAGE FAULTS AND MAINTENANCE

Faults	Solutions	
Lamp does not work	Check the power line, the fuse is damaged, if damaged, please replace	the
Lamp does not operate	related accessories, if there still have problem after replacement, ple	ase
	find DAGE light or professional repair	
	Test voltage is normal	
Low light intensity	Check the reflector and lens is dust and damaged	
Out of DMX signal control	Check the signal lines connected, whether bad or damaged	

Δ	G	
H	U	A

	Check the DMX address is set correctly	
	Check for interference from around power lines	
	Check if each stepper motor can rotate freely, if any other questions, you	
Scanning motion out of step	can ask DAGE light or other professional repair	
	Turn up the audio voice or tapping your fingers on the "MIC" microphone, ir	
No voice in the voice mode	still no sound, you should look for DAGE light or other professional repair	

DAGE CLEANING AND MAINTENANCE

In order to ensure that the lamp has good lighting effect, reflector and lens must be cleaned frequently, the cleaning frequency is decided on your own.

- To wipe clean with flannel or clean paper
- Use the dedicated glass cleaner
- Recommended to clean once in every 30 day

DAGE DECLARATION

This product is manufactured good, packaging integrity. All the users are advised to strictly follow the safety warnings and operating instructions stated above, any damage caused by misuse are not covered in our company's warranty, and the ignoring of instructions for use which lead to breakdowns and problems are not within the range of dealer's responsibility.

Note: Based on our ongoing product improvement, the data contained in this manual may change, and there will be no further notice, the company has the power to improve the relevant specifications, any inconvenience, please understand.