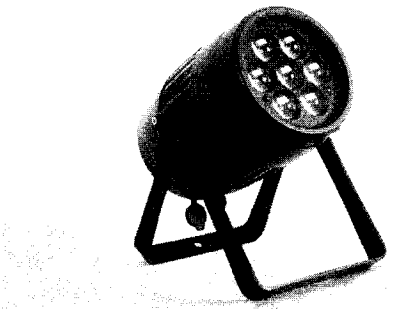
User manual

BEAMER Z

LCG-2003



Please read carefully before use

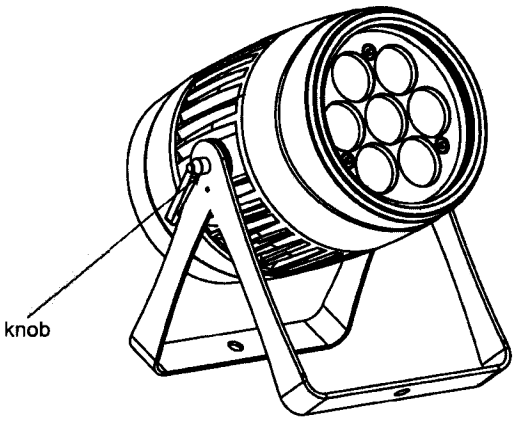
Unpacking: Thank you for purchasing the BEAMER Z. has been tested and shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect you fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

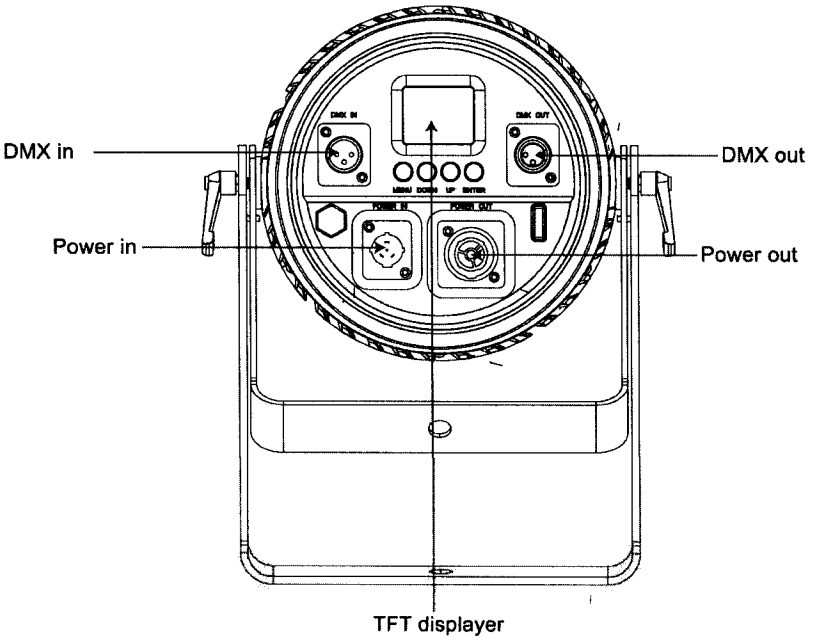
Introduction: The BEAMER Z is a DMX intelligent zoom par. The BEAMER Z can be a 2channel, 4channel, 8channel, 17channel, or 19channel DMX unit. The fixture can operate in two different operating modes: auto mode and under DMX control. In addition, you can connect several pieces of lights in DMX mode and set one in Auto mode, and the others in Master/Slave mode. And then all the lights in Master/Slave mode will run following the one in Auto mode. For best effect, you can use fog or special effects smoke to enhance the projection of the beams.

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

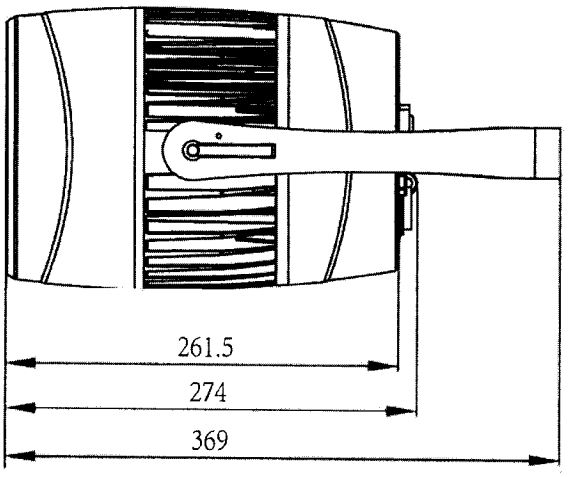
Warning! This may cause severe eye damage. Avoid looking directly into the light source at all times.

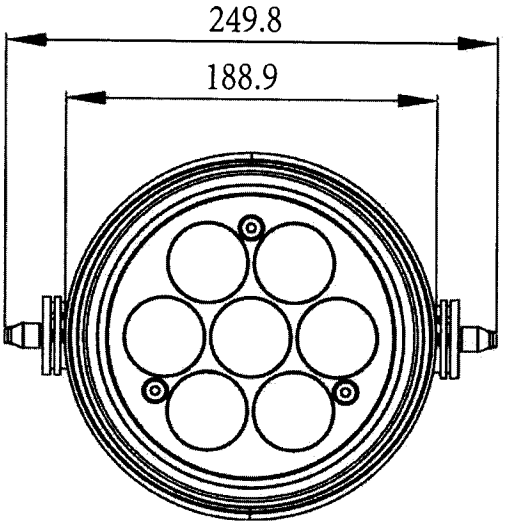
Product Overview





Mechanical Specification





Features

OPTICS

- Beam aperture: 8° to 50°
- Optical lens: 42mm PMMA secondary optics and lens tube

LIGHT SOURCE

- 7 * 20W RGBW, quad led.
- Flicker free sources Management, convenient for TV applications and all video recorded events
- Output intensity: 27700 lux@2m 8°; 1380 lux@2m 50°

ELECTRONIC

- Electronic power supply with active PFC
- 110 to 240 Volts – 50/60Hz
- Power consumption: 150 Watt max
- Smart temperature protection

HARDWARE FACILITIES

- TFT displayer for address and special functions settings, with flip function
- 4 menu buttons to set the functions
- 3 pin XLR connectors for DMX connections
- Natural cooling without fan

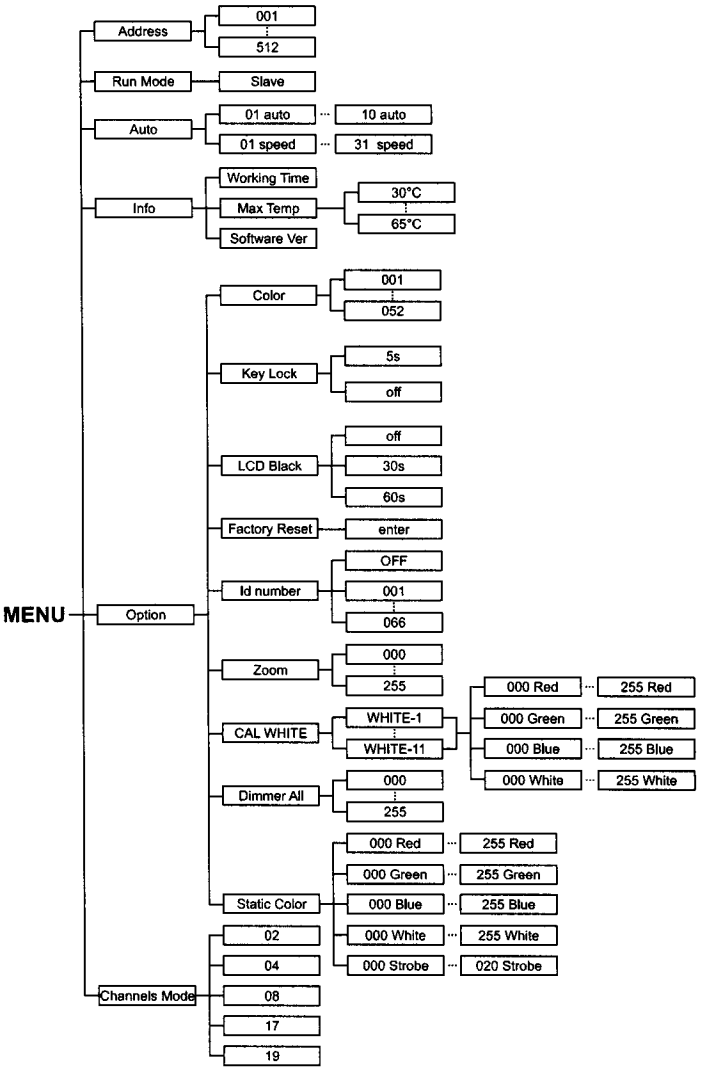
SOFTWARE

- Easy operate menu and nice screen
- DMX channel mode: 2,4,8,17&19CH
- 10 internal programs and 11 kinds of color temperature white
- Maximum 66 ID setng for easy separate control

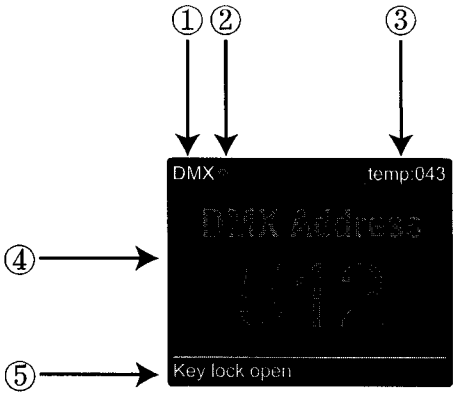
HOUSING

- Body in die-cast aluminum
- Control Panel in Tempered glass
- IP65 protection index
- Size: 250(L)x189 (W)x339(H)mm
- N.W: 5KG
- G.W: 6.5KG

On Board System



Displayer introduction



1. DMX means the light is in the DMX mode.Similarly,SLAVE means the light is in the SLAVE mode.

2. The color of the point shows the condition of signal transmission. Green represents the good condition, while red represents the signal is interrupted.

3. The item shows the working temperature of the light.When the working temperature exceeds the max temperature,the color of the letters and number will change from white to yellow.

4. This item shows the menu you selected.

5. This item shows the condition of key lock. "Key lock open" means the key lock is open.And "Key lock off" means the key lock is close.

Address - DMX Address Setting via control board.
1.Press"ENTER"button, then press the"UP"button or"DOWN"button until "Address" is showed.
2.Press"ENTER"button,"xxx" is showed,"xxx"represents the showed address. Then press "ENTER"to confirm the item. Next press the "UP" or "DOWN" button to select your desired address.

Run Mode - In this menu, you can select the Master/slave mode.
1.Press "ENTER" button, then press the "UP" button or "DOWN" button until "Run Mode" is showed.
2.Press"ENTER" button again, then"slave"is showed, and Slave mode is confirmed. It will perform following the fixture in auto mode and chase mode.

Auto - In this menu you can select your desired Auto mode.
1.Press "ENTER" button ,then press the "UP" button or "DOWN" button until "Auto" is showed.
2.Press "ENTER" button again, then"xx auto" or "xx speed" is showed.
3.Press the "UP" button or "DOWN" button to find the "xx auto".Then press "ENTER" to confirm the item. Press the "UP" button or "DOWN" button to select your desirable auto mode.
4.Press "ENTER" button, then press "UP" button or "DOWN" button to find the "xx speed. Press "ENTER" to confirm the item. Next press the "UP" button or "DOWN" button to adjust the speed of auto mode.

Channels mode - You can select your desired channel in this menu.
1.Press "ENTER" button ,then press the"UP"button or"DOWN"button until "Channels mode"is showed.
2.Press "ENTER" button again, then"Channel mode xx"is showed. Press "ENTER" to confirm the item. Next press the "UP" button or "DOWN" button to select your desirable channel mode.

Option - Set the data of fixture.
1.Press "ENTER" button ,then press the "UP" button or "DOWN" button until "Option" is showed.
2.Press "ENTER" button again, then you can find nice items and adjust the data of them.
(1)color - In this menu, you can select your desired color mode.
1)Press "UP" button or "DOWN" button until "color" is showed, then press "ENTER" button.
2)"xxx" representing a number between 001~051 will be showed. Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to select your desired color.

(2)static color - In this menu, you can set your desired static color mode and strobe mode
1)Press the "UP" button or "DOWN" button until "static color" is showed, then press "ENTER" button.
2)There will be five options. Press "MENU" button to confirm the option and then press "UP" or "DOWN"button to set the data you desire as below.
① red(000 ~ 255)
② green(000 ~ 255)
③ blue(000 ~ 255)
④ white(000 ~ 255)
⑤ strobe(000 ~020)

(3)Dim All - In this menu, you can set the brightness of the full color
1)Press the "UP" button or "DOWN" button until "Dim color" is showed, then press "ENTER" button.
2)"xxx" representing the brightness of full color between 000~255 will be showed. Press "ENTER" to confirm the item. Then press the "UP" or "DOWN" buttons to set the brightness.

(4)CAL WHITE - In this menu, you can set 11 kinds of color temperature white by setting the data of RED,GREEN,BLUE and WHITE.
1)Press the "UP" button or "DOWN" button until "Dim color" is showed, then press "ENTER" button.
2)"xxx" representing the brightness of full color between 000~255 will be showed. Press "ENTER" to confirm the item. Then press the "UP"or"DOWN" buttons to set the brightness.

(5)Zoom - In this menu, you can set the zoom angle from 8° to 50°.
1)Press the "UP" button or "DOWN" button until "Zoom" is showed, then press "ENTER" button.
2)"xxx" referring the zoom angle between 000~255 will be showed. Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to set the zoom angle.

(6)ID number - In this menu, you can set the ID number. When you set the ID number, you can control the fixture separately via DMX controller.
1)Press the "UP" button or "DOWN" button until "ID number" is showed, then press "ENTER" button.
2) "OFF" or "xx" will be showed. "xx" represent the ID number between 1~66.Press "MENU" to confirm the item. Then press the "UP" or "DOWN" buttons to set the ID number.
(7)Factory Reset - In this menu, you can reset the fixture.
1)Press the "UP" button or "DOWN" button until "Factory Reset" is showed, then press "ENTER" button.
2)Press "ENTER" to reset the fixture.
(8)LCD Black - In this menu, you can set the LCD BLACK time.
1)Press the "UP" button or "DOWN" button until "LCD Black" is showed, then press "ENTER" button.
2)You will find three selections, "off", "30s" and "60s". Press "ENTER" to confirm the item. Then press the"UP"or "DOWN" buttons to select the option.
"off" represents the displayer will be on all the time.
"30s" represents the displayer will be off if the there is no operation with the fixture over 30 seconds.
"60s" represents the displayer will be off if the there is no operation with the fixture over 60 seconds.

(9)Key Lock - In this menu, you can set the key lock function.
1)Press the "UP" button or "DOWN" button until "Key Lock" is showed, then press "ENTER" button.
2)You will find three selections,"off" or "on".Press "ENTER" to confirm the item. Then press the "UP" or"DOWN" buttons to select the option. The password is [DOWN] [UP] [DOWN] [UP].
"off" represents the key lock function is off. And you do not need to input the password before the operation.
"5s" represents the key lock function is off after 5s. And you need to input the password before the operation.

Info - You can check some information of the fixture in this menu.
1.Press "ENTER" button ,then press the "UP" button or "DOWN" button until "Info" is showed.
2.Press "ENTER" button again, you will find three options,"Working time","Software Ver" and "Max Temp".Then press the "UP" button or "DOWN" button to check the information.
-"Working time" represents the lasting time the fixture has been working.
-"Software Ver" represents the software version of the fixture.
-"Max Temp" represents the maximum temperature. The cooling system will start working when the operating temperature of fixture is around the maximum temperature

DMX control mode

2 DMX Channel

	Value	Function
1	0 - 9	none
	10 - 13	red
	14 - 17	green
	18 - 21	blue
	22 - 25	yellow
	26 - 29	cyan
	30 - 33	magenta
	34 - 37	white
	38 - 41	orange
	42 - 45	pink
	46 - 49	violet
	50 - 53	aquamarine
	54 - 57	sky blue
	58 - 61	full white
	62 - 65	cool white
	66 - 69	warm white
	70 - 73	white 3200
	74 - 77	white 2500
	78 - 81	yellow 2
	82 - 85	straw
	86 - 89	orange 2
	90 - 93	light rose
	94 - 97	dark pink
	98 - 101	magenta 2
	102 - 105	blue 2
	106 - 109	med blue green
	110 - 113	dark blue
	114 - 117	bright pink
	118 - 121	medium blue
	122 - 125	golden amber
	126 - 129	deep golden amber
	130 - 133	pale lavender
	134 - 137	apricot
	138 - 141	dark lavender
	142 - 145	chocolate
	146 - 149	just blue
	150 - 153	surprise pink
	154 - 157	scarlet
	158 - 161	surprise peach

1	162 - 165	fire
	166 - 169	english rose
	170 - 173	mauve
	174 - 177	bright blue
	178 - 181	alice blue
	182 - 185	rose indigo
	186 - 189	urban blue
	190 - 193	cool blue
	194 - 197	Light salmon
	198 - 201	mayan sun
	202 - 205	cherry rose
	206 - 209	flesh pink
	210 - 213	skelton exotic sangria
	214 - 217	amber
	218 - 255	RGBW
2	0 - 255	zoom min to max

4 DMX Channel

DMX Channel	Value	Function
1	0—255	master dimmer
2	0—255	Hue
3	0—255	Staturation
4	0—255	zoom min to max

8 DMX Channel

DMX Channel	Value	Function
1	0—255	Master dimmer
2	0—255	red
3	0—255	green
4	0—255	blue
5	0—255	white
6	0—255	strobe
		0-8 no function
		9-255 strobe from slow to fast
7	0—255	zoom min to max
8	0—255	motor speed

17 DMX Channel

DMX Channel	Value	Function
1	0—255	Master dimmer
2	0—255	No function
3	0—255	Red hight 8 byte
4	0—255	Red low 8 byte
5	0—255	Green hight 8 byte
6	0—255	Green low 8 byte
7	0—255	Blue hight 8 byte
8	0—255	Blue low 8 byte
9	0—255	White hight 8 byte
10	0—255	White low 8 byte
11	0—49	Default dimmer
	50—99	dimmer speed 1
	100—149	dimmer speed 2
	150—199	dimmer speed 3
	200—255	dimmer speed 4
12	0—255	strobe
		0-8 no function
		9-255 strobe from slow to fast
13	0—255	zoom min to max
14	0—255	motor speed
15	0 -- 7	Default
	8—10	program 1
	11—20	program 2
	21—30	program 3
	31—40	program 4
	41—50	program 5
	51—60	program 6
	61—70	program 7
	71—80	program 8
	81—90	program 9
	91—100	program 10
	101—109	program 11
	>109	None
16	0—255	auto speed
17	201—220	motor reset

19 DMX Channel

DMX Channel	Value	Function
1	0—255	Master dimmer
2	0—255	No function
3	0—255	Red hight 8 byte
4	0—255	Red low 8 byte
5	0—255	Green hight 8 byte
6	0—255	Green low 8 byte
7	0—255	Blue hight 8 byte
8	0—255	Blue low 8 byte
9	0—255	White hight 8 byte
10	0—255	White low 8 byte
11	0—49	Default dimmer
	50—99	dimmer speed 1
	100—149	dimmer speed 2
	150—199	dimmer speed 3
	200—255	dimmer speed 4
12	0—255	36 macros color
13	0—255	strobe
		0-8 no function
		9-255 strobe from slow to fast
14	0—255	zoom min to max
15	0—255	motor speed
16	0—255	ID number(0-66)
17	0 -- 7	Default
	8—10	program 1
	11—20	program 2
	21—30	program 3
	31—40	program 4
	41—50	program 5
	51—60	program 6
	61—70	program 7
	71—80	program 8
	81—90	program 9
	91—100	program 10
	101—109	program 11
	>109	None
18	0—255	auto speed
19	201—220	motor reset

DMX Set Up

Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

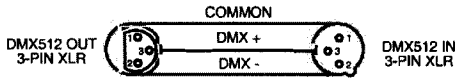
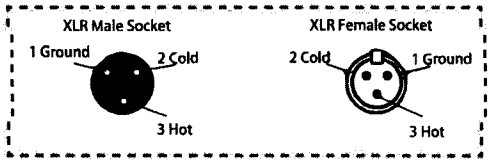


Figure 2



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4