BIGHT DESIGN BY GERMANY

LASER SHOW SYSTEM

PURPLE LASER SERIES

MODEL BE-PX150

User Guide

General instructions

Unpacking:

Thank you for purchasing this product. Please read user guide for safety and operations information before using the product. Keep this manual for future reference. This product can create perfect laser programs and effects since it has passed a series of strictly tests before delivery. Please check the attachments listed on the page after opening the carton. In the event of carton damage or attachment missing in transit, please contact your dealer or our after sales service department.

Attachments:

1. Laser Light: LPC

2: Power Cable: IPCS

3, User Guide: LPC

Notice:

- I Do not exposure the human eye direct to laser beam.
- 2. Do not turn on and off the unit frequently,
- 3 Before using this unit make sure the power supply is ground.
- 4. This unit is intended for indoor use only and should be prevented form water, moisture and shake. The working temperature of this unit is 18~30°C, do not use this continuously over 4 hours, otherwise it shortens the lifetime of the unit.
- Use cleaning tissue to remove the dust absorbed on the external lenses periodically to optimize light output.
- 6. Do not remove or break the warrunty label, otherwise it void the warranty.
- Always replace with the exact same type first, replacement with anything other than the specified first can cause fire or electric shock and damage your unit, and will void your manufactures warranty.



DANGER LASER RADIATION AVOID EXPOSURE TO BEAM CLASS 3B LASER PRODUCT



Technical Specification

1. Voltage: AC220V 50HZ/50HZ Fuse: 2A/250V

2. Rafed Power: 30W

3. Laser: 150mW blue violet laser (405mm)

4. Working Modes: DMX, Sound Active, AUTO, Master-Slave

5. DMX Control Channel: 7 channels

6. Graphics & Effects: more than 100 patterns, over 300 effects

7. Interface: 3 pins XLR Jack for DMX or Maser-Slave linking

8. Size: L*W*H=250*230*128mm

9. Weight: 2.8Kg

Features

L. Various working modes

Includes four working modes as DMX. Sound Active, AUTO and Master-Slave Control for different applications.

2. Various programs

The purple beam is compages, more than 100 laser patterns, over 300 laser effects.

Different working modes has different program.

3. DMX control

The unit has 7 channels to control in DMX mode. The unit has BLACK OUT function.

The unit will shut OFF if no DMX5.12 signal.

4. Master-Slave function

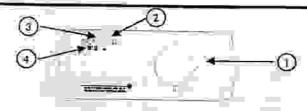
The system allow link many units (as slave unit) together to doing synchro job without console in sound active or AUTO mode.

5. LED indicating and shut-off function

In sound active mode, the unit's panel has LED indicating for sound active. The laser will shut off after 8 seconds when the music stops.

6. DPSS Laser

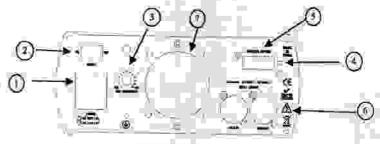
Use Diode-Pumped Solid State violes laser, stable output and long working life.



Front Panel Figure

Laser Aperture

- 2. Sound Active Microphone
- 3. Sound Active Indicator: Blue
- 4. Power Indicator: Red



Rear Panel Figure

1. Power Jack

- 2. ON/OFF switch
- 3. Audio Sensitivity Knob
- 4. DMX Signal Indicator: Green.
- 5. Dipswitches: Function Setting
- 6. DMX or Linking fack

7. Cooling Fan

Function & Setting

Sound Active

The change of the laser pattern is controlled by sound, that is, the rhythm of the sound control the effect of the changing laser pattern. Turning the sensitivity knob in the clockwise direction to increase the fixture's sensitivity to sound, the knob in the counter clockwise direction to decrease. The laser diode will automalically turn off after 8 seconds when the music stops.

AUTO

Auto cycles the built-in programs without being controlled externally. It has no laser OFF.

DMX Control

The system only accepts the DMX512 signal of international standard to control the system mode, the laser pattern ON /OFF, the size, the position, the speed, etc.

DMX Control Parameter Chart

Channel	Punction	Value	Description	
		0~49	Close, laser OFF	
	1	50~99	Static patterns of DMX mode	
CHI	Mode	100~149	Dynamic patterns of DMX mode Sound active mode	
		150~199		
		200~255	AUTO mode	
CH2	Pattern selection	0~255	52 static/dynamic patterns	
СНЗ	Position-X	0~255	Adjust position-X	
GH4	Position-Y	0~255	Adjust position-Y	
CH5	Scanning speed	0~255	0 is speedy, 255 is slow	
CH6	Dynamic pattens play speed	0~255	0 is speedy, 255 is slow, has ten- grade speed	
CH7	Static pattern size	0~255	0 is small, 255 is big	

CH2 Parameter Chart For Function

DMX value	Static patterns	Dynamic patterns	DMX value	Static patterns	Dynamic patterns	
0~4	circle	circle to big	130~134	christaross	dot diagonal move hori line flex hori dot line flex hori dot line move hori dot line move vertical line move vertical line move rectangle extend	
2~0	dot aircle	dat circle to big	135139	chiusura line		
10~14	dot circle i	soun nirele to big	180~144	hor-extend fine		
15~19	stan eisele	circle flash	145~149			
20~24	horizontal line	dot eirele flash	150~154	hon-flex line		
25~29	hori-dot line	circle roll	165≈159	ho-flex dot line		
30~34	vertical Ime	dot circle roll	160~164	ver-extend lime		
35-39	vert-dot line	carde timu	165~169	vert-shrink line		
40~44	45° diagonal	dor circle turn	170~17#	vert-flex fine	dot rectangle extent	
45~49	dot diagonal	dot circle to add	175~179	ve-flex dot line	square extend	
50~54	135° diagonal	scan circle extend	180 184	laddar line I	dot square extend	
55~59	dot diagonal	cimie jiuno	185~189	ladder line 2	rectangle farm	
60~64	V line I	dot airele jump	190~194	ladder line 3	dat rectangle turn	

Page 4

DMX value	Static patterns	Dynamic patients	DMX value	Static panerns	Dynamic patterns square turn des square turn	
65~691	V dot line	hori-line jump	195~199	ledder line 4		
70~74	V Ime 2	hori-dot line jump	200~204	cetragon I		
75~79	V dot line 2	vernical line jump	205~209	tetragon Z	peatagon turn	
80~84	triungle l	ver-dot lim jump	210~214	pentagon !	dos pensegon turs	
85~89	dot triangle 1	diagonal jump	215~219	pentagon 2	tetragon turn	
90~94	triangle 2	dos dingornal jump	220~224	pentagon 3	pentagon star turn	
95~99	dot triangle 2	short secret round 1	225~229	penugon 4	bird Oy	
100~104	Square	short sector round 2	230~234	wave line	dot bird fly	
105109	dot square	long sector round 1	235~-239	wave dot line	wave flowing	
170~114	rectangle l	long sector round 2	Z40~244	spirality line	dot wave flowing	
115>119	dot rectangle 1	Ине коли	245~249	many dôt l	many dot Jump l	
120~124	rectangle 2	dot line scan	250~254	many dot 2	square dot jump	
125~129	dal rectangle 2	45" dragonal rmove	255	squire do!	many dot jump 2	

There are 52 static patterns, the sizes of the patterns that DMX value is 140 previous are adjustable, the following irregular patterns are non-adjustable. There are 52 dynamic putterns, whose sizes are non-adjustable.

Function setting

Uses dipswitches to assign a unit's function: DMX/slava, or sound active, or ALPET mode. For the unit is DMX mode, set the DMX address. Each dipswitch represents a binary value. See the "Function chart".

0=OFF L=ON X=OFF

DIPSWITCH CHART							THE PARTY CONTROL AND THE				
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	FUNCTION	
0	0)	0	Х	X	Х	Х	х	х	1	SOUND ACTIVE	
£	0	0	Х	Х	Х	х	Х	11	1	AUTO-BEAM	
Ŧ	SET DMX ADDRESS							DMX MODE			

Function Chart

Dipswitch #10 is use to set master or slave mode. Master modes have sound active and AUTO mode. Slave modes have DMX and Slave mode. The units automatically identify DMX or SLAVE mode by data receives, Dipswitch #9 use to is set sound active or AUTO mode in master mode.

Page 5

DMX address calculation

For DMX mode, DMX512 address from #1 to 9# dipswitches must be set, the address is set from 1 to 511. Each dipswitch represents a binary value.

Dipswitch	Value	Dipswitch	Value
#1	1	#6	32
#2	2	#7	64
#3	4:	#8	128
#4	8	#9	256
#5_	16	#10	Set to "0"

One unit has 7 channels, so each unit must be assigns 7 channels at least. We may assign 8 channels for one unit, then DMX address = 8*N + 1, N=0, 1, 2, 3,......

Example

One loop address=1, two loop address=9, three loop address=17, four loop address=25

Loop	Address	Binary	Dipswitches
4	4	100000000	#4
2	9	00000000	#4##4
3.	177	100010000	# 1+#5
4	25	100110000	# 1+#4+#5

The dipswitches setting for DMX address see the " DMX Address Ouick Reference Chart ".

Operation

Stand-Alone Operation (Sound Active, AUTO mode)

The mode allows a single unit to react to the beat of the music in the master mode.

- 1. Install the units in a suitable position (laying or appending).
- 2. Set dipswitch to select Sound Active or AUTO mode.
- 3. Turn on the unit power, the unit begins reset, then the unit begins working.
- 4. The unit will react to the low frequencies of music via the internal microphone. Adjust the audio sensitivity knob on the back of the unit to make the unit more or less sensitive in sound active. The panel has LED indicating for sound active.

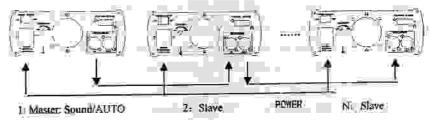


Page 6

Master-Slave Operation

This mode will allow you to link up to 32 units together without controller.

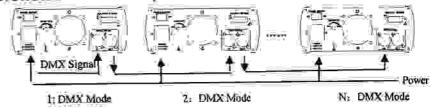
- 1. Install the units in a suitable position (laying or appending).
- Choose a unit to function as Master mode, set dipswitch to select Sound Active or AUTO mode. The others must be set to Slave mode, set dipswitch to select Slave mode.
- Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture.
- Turn on the all units' power, the units begins reset, then the unit begins working. The slave units will react the same as the master unit.
- 5. The units will react to the low frequencies of music via the internal microphone. Adjust the audio sensitivity knob on the back of the master unit to make the unit more or less sensitive in sound active. The panel has LED indicating for sound active.



Universal DMX Operation (DMX mode)

This mode allows you to use universal DMX-512 console to operate.

- 1. Install the units in a suitable position (laying or appending).
- Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture.
- Assign a DMX address to each the unit using dipswitches, see the "DMX Address Quick Reference Char".
- 4 Turn on the all units' power, the units begins reset, then the unit begins working,
- 5. Use DMX console to control your units.



Page 7

Notes:

- 1. DMX console can not be used in Master-Slave operation (Sound Active or AUTO mode).
- 2. There should be only one master unit in Master-Slave operation

Troubleshooting

- If the power supply indicator doesn't light up and the laser doesn't work, please check the
 power supply and the input voltage.
- In Stand-Alone operation, if the power supply indicator is light up and sound active indicator isn't light up, but the laser is shut off doesn't work.
- A. Because sound is too small make for laser shut off in sound active, please increase the music volume or increase audio sensitivity with sensitivity knob, please check as below.
- B. Please check if unit has been set up in slave mode, then set up in master mode.
- 3. In Master-Slave operation, stave unit don't function, please check as below.
- A. Make sure to there's only one master in the chain, and the others are set in slave mode.
- B. Make sure to control the unit without DMX console controlling.
- C. Make sure to take a good quality power cable and connection.
- In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below.
- A Make sure to set up the DMX mode.
- B. Make sure to have a good connection.
- 5. In DMX operation, the unit can't be controlled by the DMX console, but the DMX signal indicator is flashing, please make sure the DMX console and unit have the same channel.
- 6. If the output beam direction above isn't the right way, please restart the unit
- 7. If the unit is fail, please turn off the unit, then turn on again after 5 minutes.

After trying the above solution you still have a problem, please contact your dealer or our company for service.