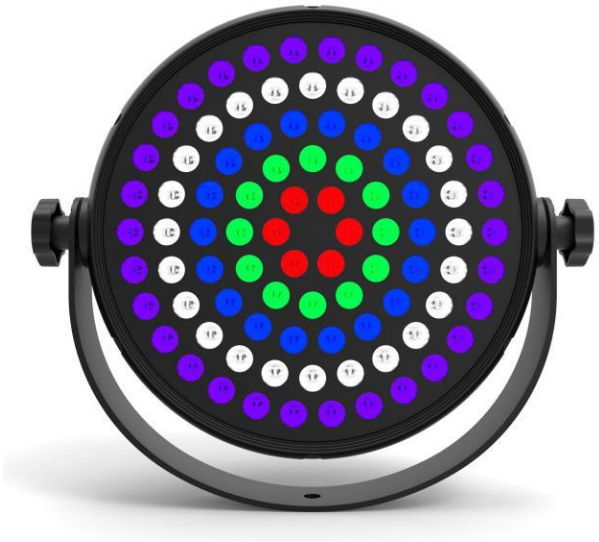
90PCS Dynamic Wash

FD-90D



User manual

Please read this user manual before using this product

1. Checking before using

No.	Item	Quan	Unit
1	PAR Light	1	piece
2	Power cable with blue head	1	piece
3	User manual	1	piece

★For security reasons and in accordance with the terms, reassemble or modify the product is not allowed without permission. Please note that due to human damage caused by improper use of the product, it will break the warranty qualification. Moreover, the unprofessional operation may lead to short circuits, burns or electric shock, and so on.

★This device has been full inspection before shipping. For your safety, please operate it according the User Manual.

★If any damage caused by improper operation will result in the termination of the warranty claims. The manufacturer does not accept any responsibility of property damage due to improper operation or personal injury due to non-compliance with the operating instructions.

★Keep the manual in a safe place for future reference as well as after the product sale, lease, etc.

★Note: Based on product improvements, specification may change without notice. Changes in product specifications related rights will be reserved.

2. Safety Instruction



1. When opening the packing, take all accessories out, and remove the light to a horizontal table for good operation. First check whether the accessories are complete, then check carefully whether the whole light has no damage. If there is any damage, please contact us as soon as possible.

2. AC Power: Check whether the local power supply is accordance with the
requirements of the product rated voltage.

3. The product is only suitable for indoor working environment. The light should
keep dry, keep away from wet, overheat or dusty environment. Don't come into contact with water and other liquids to prevent or reduce the risk of electric shock or fire.

4. Please do not install the light directly on the surface of the combustible substance.

5. The people who install, operate and maintain of light professional certificate required.

6. When there are faults of the light, please stop using the light immediately. Don't try to repair, please contact the nearest authorized technical assistance center, if the parts damage, always use the same type of parts replaced.

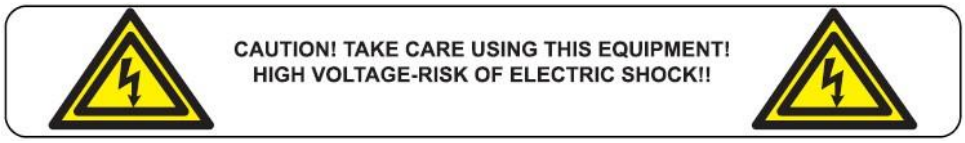
7. Don't touch any electrical wiring in the process of operation to prevent the risk of electric shock.

8. To make sure the light working environment temperature, the highest do not exceed 40℃, the lowest do not exceed - 20 ℃.

9. Under the stable cooling working situation, the highest temperature of the housing of the light can reach 80 ℃, please do not touch.

10. The light is design according to the type of electric shock protection. The light should be use in good connection grounding power system and the earth sign port of the light should be connected to the installing fixtures.

11. Do not use the damage of the insulating layer wire and also do not use the power cord overlap on the other wire. When not in use or clean the light, please disconnect the power, don't pull the plug in hard or just drag the wires.
12. There are no components inside for maintenance. Before start operation the light, please check whether all of the shell is installed. In the case of the shell open used the light is prohibited.
Note: Before performing any installation, repair and cleaning of the lamp, please confirm that the power cable has been cut off.



3. Product specification

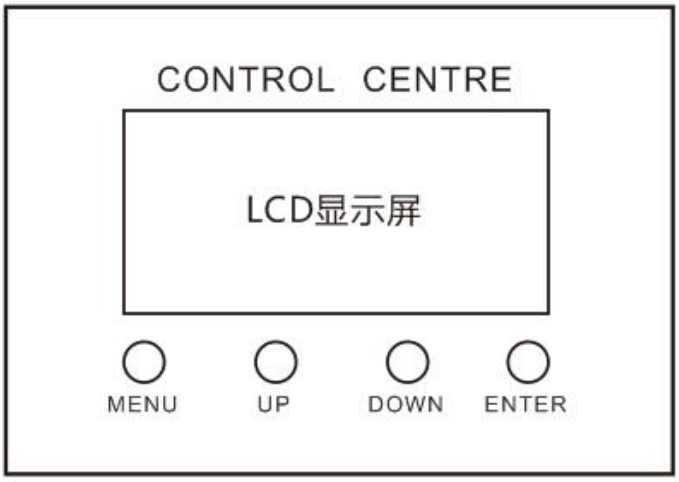
1. Voltage: AC100-240V 50-60Hz
2. Power Consumption: 180W
3. Light Source: 90 × 2W RGBW 4in1 LEDs
4. Beam Angle: 25° / 40°
5. Source life: 100,000 hours
6. Color: 1670 million kinds of colors
7. Working modes: Sound (Audio) Active, Show Mode, DMX, Master/ Slave.
8. Powercon: Input / Output
9. DMX Channel: 6CH/9CH/20CH/25CH
10. W: 3.75KG
11.Size: 386*346*165㎜

4. Display Main function:

Interface	Function	Remark
D001 DMX NO	D001-D512	NO stands for no DMX signal, OK stands for receiving DMX signal.
		Press the confirmation key to determine (press 5 seconds to enter the background, set various parameters)
TEMP Err'C	Temp of Ligh	Press 5 seconds to enter the background to set whether the digital tube enters the sleep mode
CH-Mode 006	Channel mode selection	6CH/9CH/20CH/25CH
R DIM 000	000-255	Red Dimming
G DIM 000	000-255	Green Dimming
B DIM 000	000-255	Blue Dimming
W DIM 000	000-255	White Dimming
Strobe 000	000-100	Strobe from slow to fast

Pro:00 Spd:00	00-15 00-25	Auto-run Mode:Selection of built-in 15 program Auto-run speed : 01-09:Jump changes from Slow to Fast 10-19:Gradual changes from Slow to Fast 20-25:Voice control , sensitivity from low to high
Color 00	00-15	Color selection
Reset OFF	ON-OFF	Restore factory value setting. OFF is the default value. ON is valid, press the confirmation key

5. LCD Display Function Instruction



6.DMX 512 Channel-6CH Simple Channel Mode

Ch	Function	Value	Description	
1CH	Master Dimmer	000	NO	Strobe mode is set by strobe background
		001-255	Dark to Bright	
2CH	Strobe	000-005	No	
		006-255	Mode 1 :Fast forward and fast out, slow to fas. Mode 2 :006--053: Fast forward and fast out, slow to fast. 054-103: Fast forward and slow out, slow to fast. 104-153: Slow forward and fast out, slow to fast. 154-203: Slow forward and slow out,	

			slow to fast. 204-255: Pulse strobe, slow to fast
3CH	Red Dimmer	000	NO
		001-255	Dark to Bright
4CH	Green Dimmer	000	NO
		001-255	Dark to Bright
5CH	Blue Dimmer	000	NO
		001-255	Dark to Bright
6CH	White Dimmer	000	NO
		001-255	Dark to Bright
6CH	Strobe	000	NO
		001-255	Slow to Fast

7. DMX 512 Channel-9CH Conventional Channel Mode

Ch	Function	Value	Description	
1CH	Master Dimmer	000	NO	Strobe mode is set by strobe background
		001-255	Dark to Bright	
2CH	Strobe	000-255	Mode 1: Fast forward and fast out, slow to fas. Mode 2 :006-053: Fast forward and Fast out, Slow to Fast 054-103: Fast forward and Slow out, slow to fast 104-153: Slow forward and Fast out, slow to fast 154-203: Slow forward and Slow out, slow to fast 204-255: Pulse strobe, slow to fast	
3CH	Auto-run Mode	000-255	Shut:000-015; Pro01:016-031; Pro02:032-047; Pro03:048-063; Pro04:064-079; Pro05:080-095; Pro06:096-111; Pro07:112-127; Pro08:128-143; Pro09:144-159; Pro10:160-175; Pro11:176-191; Pro12:192-207; Pro13:208-223; Pro14:224-239; Pro15:240-255	

4CH	Auto-run speed	000-099 100-199 200-255	Jump changes from Slow to Fast Gradual changes from Slow to Fast Voice control , sensitivity from low to high
5CH	Color selection	000-255	000-015:Full color; 016-031:R 020-047:G; 048-063:B 040-079:W; 080-095:RG 096-111:RB; 112-127:RW 128-143:GB; 144-159:BW 160-175:GW; 176-191:RGB 192-207:RGW; 208-223:RBW 224-239:GBW; 240-255:RGBW
6CH	Red Dimmer	000	NO
		001-255	Dark to Bright
7CH	Green Dimmer	000	NO
		001-255	Dark to Bright
8CH	Blue Dimmer	000	NO
		001-255	Dark to Bright
9CH	White Dimmer	000	NO
		001-255	Dark to Bright

8. DMX 512 Channel-20CH Circle Control Mode

Ch	Function	Value	Description
1CH	The 1th Ring -RED	000-255	000: Shut; 001-255: Dark to Bright
2CH	The 1th Ring -GREEN	000-255	000: Shut;001-255: Dark to Bright
3CH	The 1th Ring -BLUE	000-255	000: Shut; 001-255: Dark to Bright
4CH	The 1th Ring -WHITE	000-255	000: Shut; 001-255: Dark to Bright
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17CH	The 5th Ring -RED	000-255	000: Shut; 1-255: Dark to Bright

18CH	The 5th Ring -GREEN	000-255	000: Shut; 1-255: Dark to Bright
19CH	The 5th Ring -BLUE	000-255	000: Shut; 1-255: Dark to Bright
20CH	The 5th Ring -WHITE	000-255	000: Shut; 1-255: Dark to Bright

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MX 512 Channel-25CH Integrated Circle Control Mode

Ch	Function	Value	Description	
1CH	Master Dimmer	000	NO	Strobe mode is set by strobe background
		001-255	Dark to Bright	
2CH	Strobe	000-255	000-015: Shut Mode 1:Fast forward and Fast out, Slow to Fast Mode 2:006-053: Fast forward and Fast out, Slow to Fast 054-103: Fast forward and Slow out, slow to fast 104-153: Slow forward and Fast out, slow to fast 154-203: Slow forward and Slow out, slow to fast 204-255: Pulse strobe, slow to fast	
3CH	Auto-run Mode	000-255	Shut:000-015; Pro01:016-031; Pro02:032-047; Pro03:048-063; Pro04:064-079; Pro05:080-095; Pro06:096-111; Pro07:112-127; Pro08:128-143; Pro09:144-159; Pro10:160-175; Pro11:176-191; Pro12:192-207; Pro13:208-223; Pro14:224-239; Pro15:240-255	
4CH	Auto-run speed	000-099 100-199 200-255	Jump changes from Slow to Fast Gradual changes from Slow to Fast Voice control , sensitivity from low to high	
5CH	Color selection	000-255	000-015:Full color; 016-031:R 020-047:G; 048-063:B 040-079:W; 080-095:RG 096-111:RB; 112-127:RW 128-143:GB; 144-159:BW 160-175:GW; 176-191:RGB	

			192-207:RGW; 208-223:RBW 224-239:GBW; 240-255:RGBW
6CH	The 1th Ring -RED	000-255	000: Shut; 001-255: Dark to Bright
7CH	The 1th Ring -GREEN	000-255	000: Shut;001-255: Dark to Bright
8CH	The 1th Ring -BLUE	000-255	000: Shut; 001-255: Dark to Bright
9CH	The 1th Ring -WHITE	000-255	000: Shut; 001-255: Dark to Bright
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22CH	The 5th Ring -RED	000-255	000: Shut; 1-255: Dark to Bright
23CH	The 5th Ring -GREEN	000-255	000: Shut; 1-255: Dark to Bright
24CH	The 5th Ring -BLUE	000-255	000: Shut; 1-255: Dark to Bright
25CH	The 5th Ring -WHITE	000-255	000: Shut; 1-255: Dark to Bright