

DLW

Product Manual

DLW L1176DC4ST IP

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Safety Information



Note: Please check the complete package after received , and please unpack and check if the fixture is damaged during shipping. If the fixture is damaged during shipping, please do not use it and contact the manufacturer/local technicians as soon as possible.

The following identifications are used to identify the product and identify the important safety information in the user manual.

Warning!	Warning! See user documentation.	Warning! Hazardous voltage. Risk of lethal or severe electric shock.	Properly grounded	Warning! Intense light emission.	Warning! High surface temperature Don't touch!	Warning! Must wear gloves!
Warning! Fire hazard.	Do not stare at the operating light source	Do not interfere with the track of the operating fixture	Minimum distance of illuminated objects(m)	Rated maximum ambient temperature!	Don't install the fixture on the surfact of combustible materials!	Replace any cracked protective shields

Notes:

- The fixture is used professionally only, please don't used it for any other purposes.
- Please refer to the latest user manual before using the fixture. The fixture is out of warranty if problems are caused by any incorrect use or negligence of the user manual.
- The protection level rate is IP66.
- In order to avoid damage the fixture, it is required more than 1 person when moving the fixture. When hanging the fixture, the hanging device must be tested. The hanging device should be able to bear more than 6 times of weight of the fixture.
Please make sure the housing and G-clamp are fixed and do not have damage after installed. Please use the safety chain to keep the fixture fixed on the truss safely.
- The fixture should be installed in a well-ventilated place. Keep the distance of the fixture and the obstacles more than 0.5 meter, and please check the fans and ventilation hole sare not blocked.

- Please don't install the fixture on the surfaces of the inflammable goods directly.
- Please check the voltage before the professional technicians install the fixture.
The voltage must be the same with the voltage which marked on the fixture.
Overloading protection or leakage protection are also required.
- When replacing the fuse of a fixture, please check whether the fuse meets the specified technical requirements. Do not replace or short-circuit it without allowed. Please confirm whether the input voltage meets the specified technical requirements and is correctly grounded before powering on.
- Please cut off the power supply when replacing the fuse. ()
- Rated maximum ambient temperature when the fixture is working: $t_a = 40^{\circ}\text{C}$.
- The safe/shortest distance to the illuminate object: 5m.
- when the fixture working stably, the maximum surface temperature: $t_c = 75^{\circ}\text{C}$.
- The shortest safety distance to combustible material: 0.7m.
- Please don't touch the fixture when it is working stably. It's highest surface temperature can reach 75°C .
- The fixture must be positioned in such a way that it is not subjected to prolonged observation from a distance of less than 3.5 meters.
- Please don't stare at the working fixture directly without any eye protection.
- Please replace the protective cover and lens if any visible damage happened or the damage has reached the malfunction level. ()
- The fixture must be installed, operated, and maintained by professionals strictly according to the user manual.
- All the information of the user manual is for your reference only. All fixtures should be subject to the actual product, which is subject to change without prior notice.

Package & Transportation

Fixture package

- Please cut off the power supply and cooling it for over 15mins before packing the fixture.
- Please place the fixture in the plastic bag, and then carefully put it into the flight case vertically, the parts are placed at special area in flight case, then close the lid and lock the flight case. Please don't put it upside down.

Unpacking

- Open the packing box, and then open the inner packing bag.
- Grasp the handle of the fixture, take it out of the case carefully.

Attention: Please check the complete package after received the fixture. Please check whether the fixture is damaged or not during the shipping after opened the packing.

If the fixture is damaged during shipping, please don't use it and contact the manufacturer /local technicians as soon as possible.

Accessories with fixture

Accessories	Qty
User Manual	1
Warranty Card	1
Safety Chain	1
Signal Cable	1
Power Cable	1

Product Technical Specifications

Electrical parameters

AC 100 - 240V 50 / 60 Hz

Input Power:1500W rated electrical current:15A,PF≥0.98

Light Source parameters

- Light source:392X2W White LEDs with 28-segment control.
- 784X1.5W RGB LEDs with 14-segment control.

Optics parameters

- Beam Angle: White light 60° White RGB light 120°

Effect configuration

- Dimming:Electronic;
- Shutter/Strobe:Electronic;
- Strobe rate:0-30Hz;
- Independ Color Mixing:Supported;
- Dimming Mode:4 dimming curves,0-100% dimming;
- Built-in Auto Program:Supported.

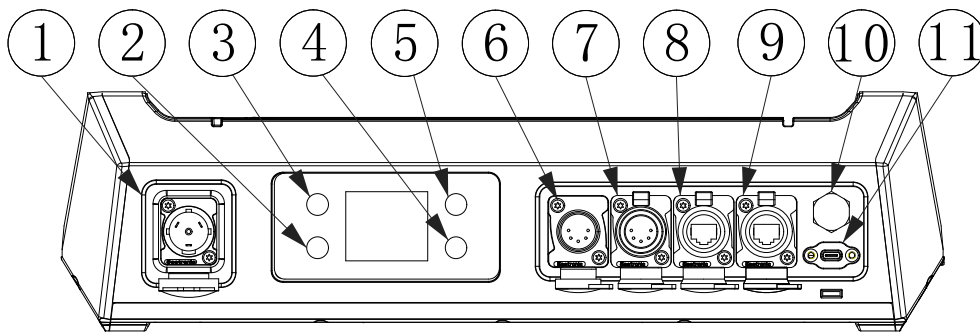
Electronic Control

- Control Channel: 8/11/13/24/30/47/68/96/97CH.
- Control Protocols: DMX512, RDM; Art-Net, sACN (optional).
- Control Ports: XLR-5+RJ45 (In/Out).
- Menu Display: 1.77-inch color LCD.
- Electronic sensor detection, intelligent fan detection and control.
- Vertical movement,non-contact magnetic rotary encoder positioning.

Fixture Size& Weight:

- Fixture size:408X202X338mm
- Net weight:12Kg
- Minimum and maximum ambient temperature:-20℃～40℃
- IP Grade:IP66

Operation Panel Instruction



Display Panel

Pic1

As shown in pic 5:

- 1.Input power 2.Enter 3. Menu(Return) 4.Down 5.Up 6.5-XLR DMX Output
7.5-XLR DMX Input 8.Ethernet Output 9.Ethernet Input 10.Air valve 11.USB

Panel Instructions

- Up Direction key: Select Sub-menu cyclically (upward). Circulate downward to adjust data value.
- Down Direction key: Select Sub-menu cyclically (downward). Circulate downward to adjust data value.
- Left Direction key (Back): Back to menu.
- Right Direction key (Confirm): Confirm the selected data value, reselect cyclical data window.
- Unlock code for black screen: “Menu-▲-Enter-▼”

Detailed Operation Table of Display panel

Signal 	DMX	001-512	
	Run mode	DMX	
		Sacn	
		Artnet	
	Channel	.....	
			
		CH	
Manual 	CH		
			
			
			
Config 	Network Setting	.....	
	Pixel Invert	.....	
	Pixel Swap	.....	
	Invert Tilt	OFF	ON
	Encoder Crct	OFF	ON
	Signal keep	OFF	ON
	Screen Saver	OFF	ON
	Invert Screen	OFF	ON
	Update Slave	OFF	ON
	Language	EN	
	Dimmer Curve	Square,Linear,S-Curv,Invsq	
	Dimmer mode	OFF	ON
	LED Frequency	4KHz, 32KHz, 24KHz, 20KHz, 20KHz, 16KHz, 12KHz, 8KHz	
	Fan mode	Auto,High	
	Screen Lock	OFF	ON
	USB Update	OK	Cancel
Test 	Auto-voice	OFF	
		Sound	
		Auto1	
		Auto2	
	Reset All		

Advanced 	TILT	.....	
	Balance-Red	.....	
	Balance-Green	.....	
	Balance-Blue	.....	
	Balance-White	.....	
	Power	.....	
	MIC	.....	
	Change password	.....	
	Load Default	.....	
	Clear Time	.....	
Info 	Reset Info	.....	
	DMX Data	.....	
	Sensor Info	.....	
	Run time	.....	
		Running time	xxx. xH
		Power-on	xxx. xH
	Version Info	.....	

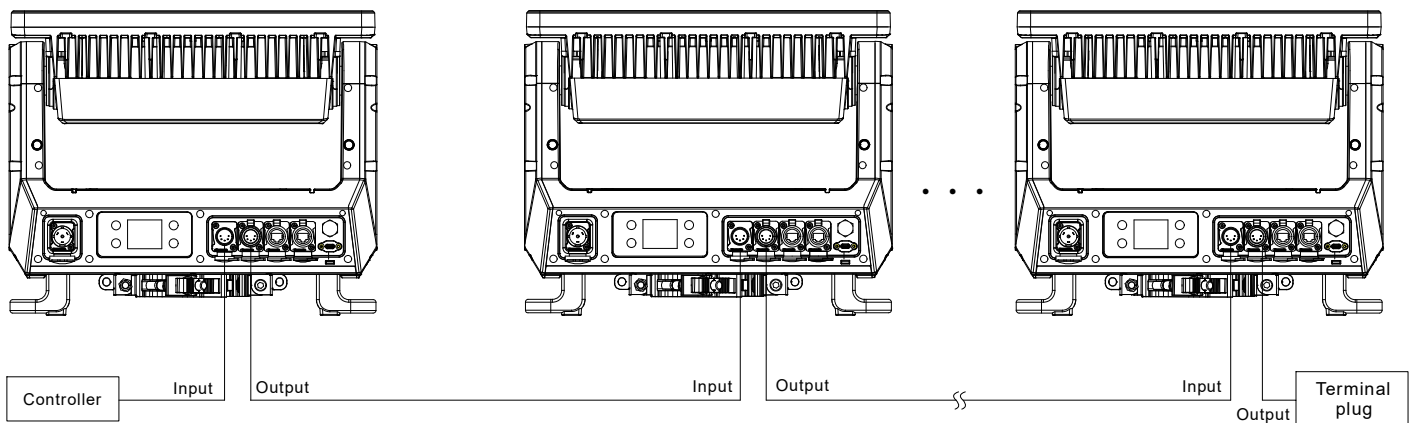
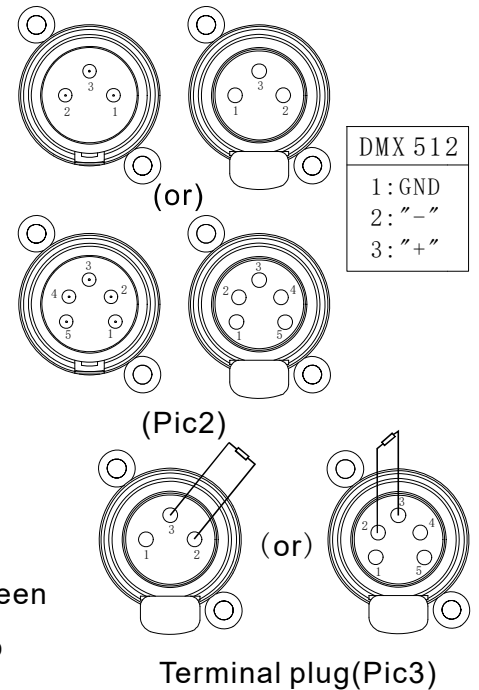
Signal connection

The fixture adopts 3pin/5pin socket to control DMX input and output, Pin1 is connected to grounded, Pin2 is connected to "- ", Pin3 is connected to "+ " (Pic2).

Please adopt professional DMX512 STP signal cable, usually its effective range is within 150m. When long distance signal transmission is required, please add DMX 512 signal amplifier.

To avoid the signal reflection during the transmission, please add a terminal which is 120Ω 1/4W resistance between DMX output pin2 and pin 3 of the last fixture. Plug the pin to the DMX output connector of the last fixture. (Pic3)

Connect the fixture from the DMX output of controller to DMX input of the first fixture, and then connect the first fixture's DMX output to the second fixture's DMX input and so on, until all fixtures are being connected. Then please install a terminal plug in DMX output of the last fixture. (Pic 3) The method of connection as show bellow. (Pic 4)



(Pic4)

- Notice:
- Don't use multi- output connecter for connecting separately, It must connect the branch with DMX512 signal amplifier to separate them if it is required.
 - Standard amplifier cable is not reliable for long-distance data transmission; Please adopt professional DMX 512 STP signal cable.
 - The signal of the fixture only has one input and one output. Two input/output for each fixture are not available.

Power connection

Input voltage and frequency must be identical to the voltage and frequency marked on the fixture. When many fixtures are working at the same time, it is strongly recommended to control each fixture on/off individually.

Connection type

	Live or L	Neutral or N	Earth, Ground or ⊕
US system	Black	White	Green
EU system	Brown	Blue	Yellow/green

Notice:

- When connect power supply, please make sure the E line (yellow & green.) is properly connected. And it is corresponded with the relative electrical installation standards.
- Insulation class between LV power supply and controlling conductor: I
- Please confirm the voltage of the power supply is corresponded to the voltage on the fixture's identifications before professionals install it. Please also make sure it has overload or leakage protection.
- If the external cable is damaged, don't change it by yourself, please contact the manufacture/local as soon as possible.
- AC220V: Lighting fixture connection not surpass 2 units (2.5mm²).
- AC110V: Lighting fixture connection not surpass 1 units (12AWG).

Installation instruction& requirement

The user need to arrange regular safety inspection for the fixtures and parts that are connected to the fixture. Please have professionals to operate if operating conditions and professional instructions are insufficient. Incorrect installation by non-professionals may leading to property loss or life danger.

Make sure there is no damage to rigging and clamps and they can bear at least 6 times weight of the fixture. Check if the truss or pipe construction can bear at least 6 times total weight of all equipment,like clamps,cables and other accessories.

G-clamp Installation

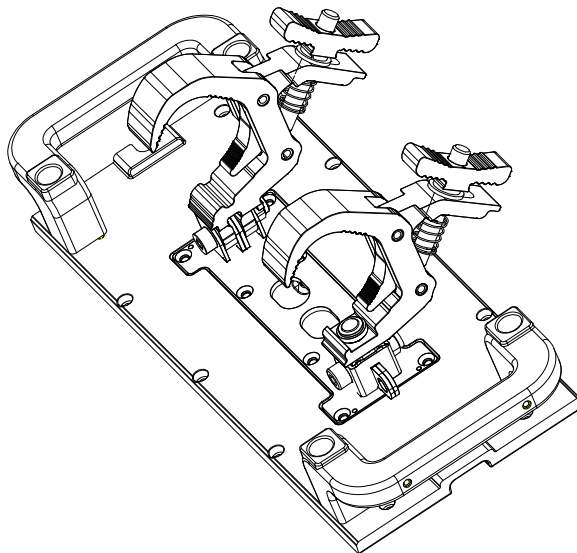
The fixture comes with the G-clamp. (Pic 5)

Fixture Installation

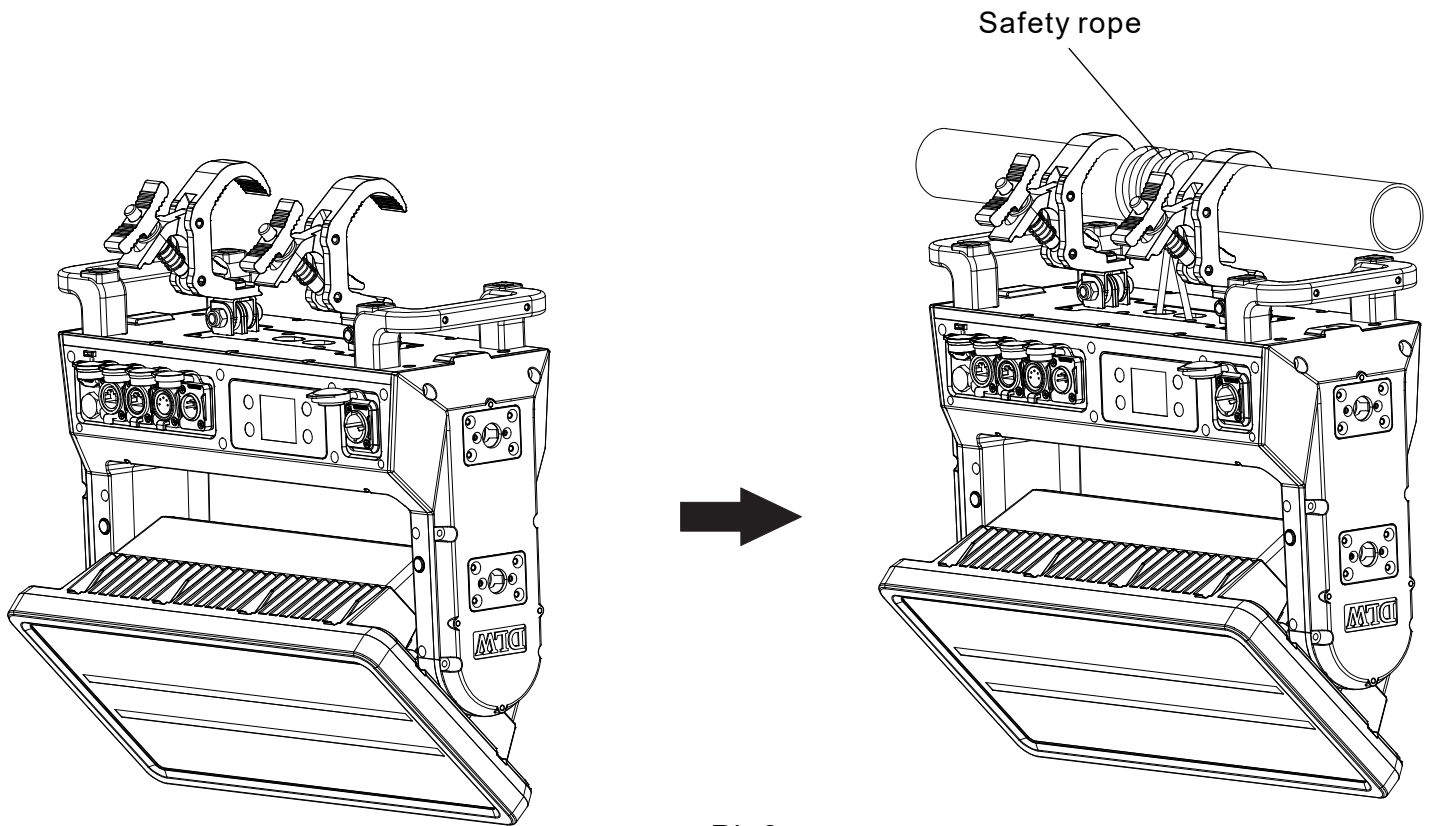
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly and quickly. (Pic 6、 Pic7)

Notice:

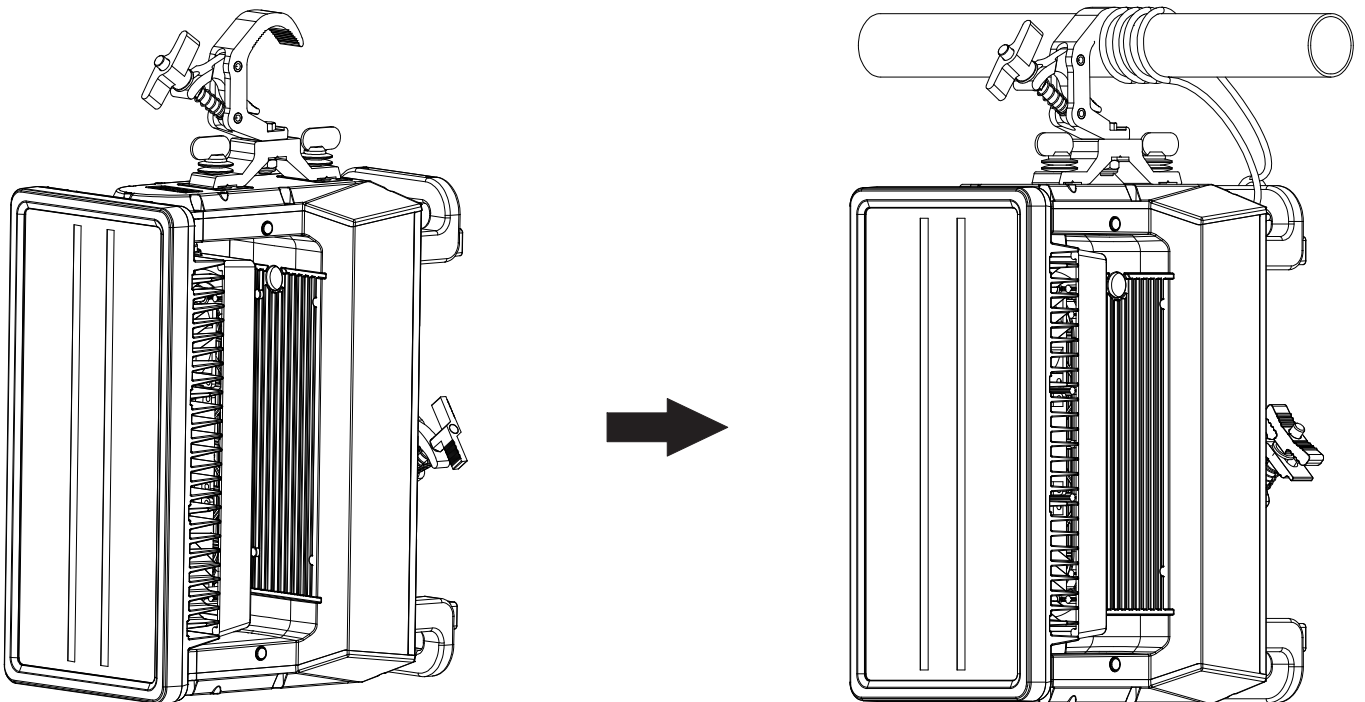
- User must check if the G-clamp and safety chain are damaged or not.
- Side hanging for long time is not recommended.



Pic5



Pic6



Pic7

DMX Channel Sheet (Brief)

Mode1(8CH):

8CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Dimmer	0-255	0-100%
4	strobe	0-9	Open
		10-79	Strobe,slow to fast
		80-149	Pulse, slow to fast
		150-219	Random strobe,slow to fast
		220-255	Open
5	Plates red	0-255	0-100%
6	Plates green	0-255	0-100%
7	Plates blue	0-255	0-100%
8	Beam	0-255	0-100%

Mode2(11CH):

11CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Dimme	0-255	0-100%
4	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
5	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
6	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Plates red	0-255	0-100%
9	Plates green	0-255	0-100%
10	Plates blue	0-255	0-100%
11	Beam	0-255	0-100%

Mode3(13CH):

13CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Plate dimmer	0-255	0-100%
4	Beam dimmer	0-255	0-100%
5	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
6	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Plates red	0-255	0-100%
10	Plates green	0-255	0-100%
11	Plates blue	0-255	0-100%
12	Strobe	0-5	No function
		6- 042	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
13	Control (hold for 3 seconds)	0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square
		16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function

Mode4(24CH):

24CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Master dimme	0-255	0-100%
4	Plate dimmer	0-255	0-100%
5	Beam dimmer	0-255	0-100%
6	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	0-9	100%
		10-250	Slow to fast
		251-255	100%
8	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Beam flash rate	0-9	100%
		10-250	Slow to fast
		251-255	100%
10	Plates red	0-255	0-100%
11	Plates green	0-255	0-100%
12	Plates blue	0-255	0-100%
13	Beam FX	0-5	No function
		6- 42	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
14	Plates foreground	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0

		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
15	Plates foreground dimmer	0-255	
16	Plates background	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
17	Plates background dimmer	0-255	
18	Plate 1&2 FX select	0-2	Plate FX All select (all on)
		3-255	see Plate Patterns
19	Plates 1&2 FX 86 movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
20	Plate 1 &2 FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
21	Beams 1&2 FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
22	Beams 1 &2 FX movement speed &direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
23	Beams 1 &2 FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
		0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square

24	Control (hold for 3 seconds)	16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function

Mode5(30CH):

30CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Master dimmer	0-255	0-100%
4	Plate dimmer	0-255	0-100%
5	Beam dimmer	0-255	0-100%
6	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Plates red	0-255	0-100%
11	Plates green	0-255	0-100%
12	Plates blue	0-255	0-100%
		0-5	No function
		6- 042	Ramp up
		43-85	Ramp down

13	Beam FX	86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
14	Plates foreground	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
15	Plates foreground dimmer	0-255	
16	Plates background	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow

17	Plates background dimmer	0-255	
18	Plate 1 (pixels 1-7) FX select	0-2	Plate FX All select (all on)
		3-255	see Plate Patterns
19	Plate 1 (pixels 1-7) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
20	Plate 1 (pixels 1-7) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
21	Plate 2 (pixels 8-14) FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
22	Plate 2 (pixels 8-14) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
23	Plate 2 (pixels 8-14) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
24	Beam 1 (pixels 1-14) FX select	0-2	Plate FX All select (all on)
		3-255	See Beam Patterns
25	Beam 1 (pixels 1-14) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
26	Beam 1 (pixels 1-14) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
27	Beam 2 (pixels 15-28) FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
28	Beam 2 (pixels 15-28) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
29	Beam 2 (pixels 15-28) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
30	Control (hold for 3 seconds)	0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square
		16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off

		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function

Mode6(47CH):

47CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Master dimme	0-255	0-100%
4	Plate dimmer	0-255	0-100%
5	Beam dimmer	0-255	0-100%
6	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Plate Invert	0-5	No function
		6-124	No function
		125-130	No function
		131-249	No function
		250-255	No function
11	Beam Invert	0-5	No function
		6-124	No function
		125-130	No function
		131-249	No function
		250-255	No function
12	Plate Pixel 1 + 8 Red	0-255	0-100%
13	Plate Pixel 1+8 Green	0-255	0-100%

14	Plate Pixel 1+8 Blue	0-255	0-100%
15	Plate Pixel 2+9 Red	0-255	0-100%
16	Plate Pixel 2+9 Green	0-255	0-100%
17	Plate Pixel 2+9 Blue	0-255	0-100%
18	Plate Pixel 3+10 Red	0-255	0-100%
19	Plate Pixel 3+10 Green	0-255	0-100%
20	Plate Pixel 3+10 Blue	0-255	0-100%
21	Plate Pixel 4 + 11 Red	0-255	0-100%
22	Plate Pixel 4+11 Green	0-255	0-100%
23	Plate Pixel 4+11 Blue	0-255	0-100%
24	Plate Pixel 5 + 12 Red	0-255	0-100%
25	Plate Pixel 5+12 Green	0-255	0-100%
26	Plate Pixel 5+12 Blue	0-255	0-100%
27	Plate Pixel 6 + 13 Red	0-255	0-100%
28	Plate Pixel 6+13 Green	0-255	0-100%
29	Plate Pixel 6+13 Blue	0-255	0-100%
30	Plate Pixel 7 + 14 Red	0-255	0-100%
31	Plate Pixel 7+14 Green	0-255	0-100%
32	Plate Pixel 7+14 Blue	0-255	0-100%
33	Beam Pixel 1+15	0-255	0-100%
34	Beam Pixel 2+16	0-255	0-100%
35	Beam Pixel 3+17	0-255	0-100%
36	Beam Pixel 4+18	0-255	0-100%
37	Beam Pixel 5+19	0-255	0-100%
38	Beam Pixel 6+20	0-255	0-100%
39	Beam Pixel 7+21	0-255	0-100%
40	Beam Pixel 8+22	0-255	0-100%
41	Beam Pixel 9+23	0-255	0-100%
42	Beam Pixel 10+24	0-255	0-100%
43	Beam Pixel 11+25	0-255	0-100%
44	Beam Pixel 12+26	0-255	0-100%
45	Beam Pixel 13+27	0-255	0-100%
46	Beam Pixel 14+28	0-255	0-100%
47	Control (hold for 3 seconds)	0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square
		16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off

		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function

Mode7(68CH):

68CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Beam dimmer	0-255	0-100%
4	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
5	Beam flash rate	0-9	100%
		10-250	Slow to fast
		251-255	100%
6	Beam shutter	0-5	No function
		6-42	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
7	Control (hold for 3 seconds)	0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square
		16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off

		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function
8	Plate dimmer	0-255	0-100%
9	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Beam flash rate	0-9	100%
		10-250	Slow to fast
		251-255	100%
11	Plate shutter	0-5	No function
		6-42	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
12	Plates red main	0-255	0-100%
13	Plates green main	0-255	0-100%
14	Plates blue main	0-255	0-100%
15	Beam and plate Fx crossfade	0-2	Snap from pixel to pixel
		3-255	Fade duration: short to long
16	Both plates FX movement speed & direction	0-5	Plate FX stop (no function)
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
17	Both plates FX select	0-2	Plate FX all select (all on)
		3-255	see Plate Patterns
18	Both beams FX movement speed & direction	0-5	Beam FX stop (no function)
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
19	Both beams FX select	0-2	Beam FX all select (all on)
		3-255	See Beam Patterns
20	Plate/beam FX dimmer	0-255	0-100%
21	Plate pixel red 1-2	0-255	Combine plate pixels 1 & 2
22	Plate pixel green 1-2	0-255	Combine plate pixels 1 & 2
23	Plate pixel blue 1-2	0-255	Combine plate pixels 1 & 2
24	Plate pixel red 3	0-255	Plate pixel 3
25	Plate pixel green 3	0-255	Plate pixel 3
26	Plate pixel blue 3	0-255	Plate pixel 3
27	Plate pixel red 4	0-255	Plate pixel 4
28	Plate pixel green 4	0-255	Plate pixel 4
29	Plate pixel blue 4	0-255	Plate pixel 4

		116~120	Plate swap off
		121~125	Beam swap on
		126~130	Beam swap off
		131~255	No function
8	Plate dimmer	0-255	0-100%
9	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Beam flash rate	0-9	100%
		10-250	Slow to fast
		251-255	100%
11	Plate shutter	0-5	No function
		6-42	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
12	Plates red main	0-255	0-100%
13	Plates green main	0-255	0-100%
14	Plates blue main	0-255	0-100%
15	Beam and plate Fx crossfade	0-2	Snap from pixel to pixel
		3-255	Fade duration: short to long
16	Both plates FX movement speed & direction	0-5	Plate FX stop (no function)
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
17	Both plates FX select	0-2	Plate FX all select (all on)
		3-255	see Plate Patterns
18	Both beams FX movement speed & direction	0-5	Beam FX stop (no function)
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
19	Both beams FX select	0-2	Beam FX all select (all on)
		3-255	See Beam Patterns
20	Plate/beam FX dimmer	0-255	0-100%
21	Plate pixel red 1-2	0-255	Combine plate pixels 1 & 2
22	Plate pixel green 1-2	0-255	Combine plate pixels 1 & 2
23	Plate pixel blue 1-2	0-255	Combine plate pixels 1 & 2
24	Plate pixel red 3	0-255	Plate pixel 3
25	Plate pixel green 3	0-255	Plate pixel 3
26	Plate pixel blue 3	0-255	Plate pixel 3
27	Plate pixel red 4	0-255	Plate pixel 4
28	Plate pixel green 4	0-255	Plate pixel 4
29	Plate pixel blue 4	0-255	Plate pixel 4

30	Plate pixel red 5	0-255	Plate pixel 5
31	Plate pixel green 5	0-255	Plate pixel 5
32	Plate pixel blue 5	0-255	Plate pixel 5
33	Plate pixel red 6	0-255	Plate pixel 6
34	Plate pixel green 6	0-255	Plate pixel 6
35	Plate pixel blue 6	0-255	Plate pixel 6
36	Plate pixel red 7	0-255	Plate pixel 7
37	Plate pixel green 7	0-255	Plate pixel 7
38	Plate pixel blue 7	0-255	Plate pixel 7
39	Plate pixel red 8-9	0-255	Plate pixel 8-9
40	Plate pixel green 8-9	0-255	Plate pixel 8-9
41	Plate pixel blue 8-9	0-255	Plate pixel 8-9
42	Plate pixel red 10	0-255	Plate pixel 10
43	Plate pixel green 10	0-255	Plate pixel 10
44	Plate pixel blue 10	0-255	Plate pixel 10
45	Plate pixel red 11	0-255	Plate pixel 11
46	Plate pixel green 11	0-255	Plate pixel 11
47	Plate pixel blue 11	0-255	Plate pixel 11
48	Plate pixel red 12	0-255	Plate pixel 12
49	Plate pixel green 12	0-255	Plate pixel 12
50	Plate pixel blue 12	0-255	Plate pixel 12
51	Plate pixel red 13	0-255	Plate pixel 13
52	Plate pixel green 13	0-255	Plate pixel 13
53	Plate pixel blue 13	0-255	Plate pixel 13
54	Plate pixel red 14	0-255	Plate pixel 14
55	Plate pixel green 14	0-255	Plate pixel 14
56	Plate pixel blue 14	0-255	Plate pixel 14
57	Beam pixel intensity 1	0-255	Combine beam pixels 1+2+15+16
58	Beam pixel intensity 2	0-255	Combine beam pixels 3 + 17
59	Beam pixel intensity 3	0-255	Combine beam pixels 4+ 18
60	Beam pixel intensity 4	0-255	Combine beam pixels 5+19
61	Beam pixel intensity 5	0-255	Combine beam pixels 6 + 20
62	Beam pixel intensity 6	0-255	Combine beam pixels 7+21
63	Beam pixel intensity 7	0-255	Combine beam pixels 8+22
64	Beam pixel intensity 8	0-255	Combine beam pixels 9+23
65	Beam pixel intensity 9	0-255	Combine beam pixels 10+24
66	Beam pixel intensity 10	0-255	Combine beam pixels 11 + 25
67	Beam pixel intensity 11	0-255	Combine beam pixels 12+26
68	Beam pixel intensity 12	0-255	Combine beam pixels 13 + 14 + 27 + 28

Mode8(74CH):

74CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Dimmer	0-255	0-100%
4	strobe	0-9	Open
		10-79	Strobe,slow to fast
		80-149	Pulse, slow to fast
		150-219	Random strobe,slow to fast
		220-255	Open
5	Plate pixel 1 red	0-255	0-100%
6	Plate pixel 1 green	0-255	0-100%
7	Plate pixel 1 blue	0-255	0-100%
8	Plate pixel 2 red	0-255	0-100%
9	Plate pixel 2 green	0-255	0-100%
10	Plate pixel 2 blue	0-255	0-100%
11	Plate pixel 3 red	0-255	0-100%
12	Plate pixel 3 green	0-255	0-100%
13	Plate pixel 3 blue	0-255	0-100%
14	Plate pixel 4 red	0-255	0-100%
15	Plate pixel 4 green	0-255	0-100%
16	Plate pixel 4 blue	0-255	0-100%
17	Plate pixel 5 red	0-255	0-100%
18	Plate pixel 5 green	0-255	0-100%
19	Plate pixel 5 blue	0-255	0-100%
20	Plate pixel 6 red	0-255	0-100%
21	Plate pixel 6 green	0-255	0-100%
22	Plate pixel 6 blue	0-255	0-100%
23	Plate pixel 7 red	0-255	0-100%
24	Plate pixel 7 green	0-255	0-100%
25	Plate pixel 7 blue	0-255	0-100%
26	Plate pixel 8 red	0-255	0-100%
27	Plate pixel 8 green	0-255	0-100%
28	Plate pixel 8 blue	0-255	0-100%
29	Plate pixel 9 red	0-255	0-100%
30	Plate pixel 9 green	0-255	0-100%
31	Plate pixel 9 blue	0-255	0-100%
32	Plate pixel 10 red	0-255	0-100%
33	Plate pixel 10 green	0-255	0-100%
34	Plate pixel 10 blue	0-255	0-100%
35	Plate pixel 11 red	0-255	0-100%
36	Plate pixel 11 green	0-255	0-100%
37	Plate pixel 11 blue	0-255	0-100%
38	Plate pixel 12 red	0-255	0-100%
39	Plate pixel 12 green	0-255	0-100%
40	Plate pixel 12 blue	0-255	0-100%
41	Plate pixel 13 red	0-255	0-100%

42	Plate pixel 13 green	0-255	0-100%
43	Plate pixel 13 blue	0-255	0-100%
44	Plate pixel 14 red	0-255	0-100%
45	Plate pixel 14 green	0-255	0-100%
46	Plate pixel 14 blue	0-255	0-100%
47	Beam pixel 1	0-255	0-100%
48	Beam pixel 2	0-255	0-100%
49	Beam pixel 3	0-255	0-100%
50	Beam pixel 4	0-255	0-100%
51	Beam pixel 5	0-255	0-100%
52	Beam pixel 6	0-255	0-100%
53	Beam pixel 7	0-255	0-100%
54	Beam pixel 8	0-255	0-100%
55	Beam pixel 9	0-255	0-100%
56	Beam pixel 10	0-255	0-100%
57	Beam pixel 11	0-255	0-100%
58	Beam pixel 12	0-255	0-100%
59	Beam pixel 13	0-255	0-100%
60	Beam pixel 14	0-255	0-100%
61	Beam pixel 15	0-255	0-100%
62	Beam pixel 16	0-255	0-100%
63	Beam pixel 17	0-255	0-100%
64	Beam pixel 18	0-255	0-100%
65	Beam pixel 19	0-255	0-100%
66	Beam pixel 20	0-255	0-100%
67	Beam pixel 21	0-255	0-100%
68	Beam pixel 22	0-255	0-100%
69	Beam pixel 23	0-255	0-100%
70	Beam pixel 24	0-255	0-100%
71	Beam pixel 25	0-255	0-100%
72	Beam pixel 26	0-255	0-100%
73	Beam pixel 27	0-255	0-100%
74	Beam pixel 28	0-255	0-100%

Mode9(96CH):

96CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Master dimme	0-255	0-100%
4	Plate dimmer	0-255	0-100%
5	Beam dimmer	0-255	0-100%
6	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Plates red	0-255	0-100%
11	Plates green	0-255	0-100%
12	Plates blue	0-255	0-100%
13	Beam FX	0-5	No function
		6- 042	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
14	Plates foreground	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0

		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
15	Plates foreground dimmer	0-255	
16	Plates background	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
17	Plates background dimmer	0-255	
18	Plate 1&2 FX select	0-2	Plate FX All select (all on)
		3-255	see Plate Patterns
19	Plates 1&2 FX 86 movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
20	Plate 1 &2 FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
21	Beams 1&2 FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
22	Beams 1 &2 FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
23	Beams 1 &2 FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
		0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square

24	Control (hold for 3 seconds)	16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function
25	Priority-Plate	0-128	Deskpriority(pixel channelsare ignored)
		129-255	Pixel priority (desk effects/ CH10,CH11,andCH12 are ignored)
26	Priority-Beam	0-128	Desk priority (pixel channels are ignored)
		129-255	Pixel priority(deskeffects are ignored)
27	Plate pixel 1 red	0-255	0-100%
28	Plate pixel 1 green	0-255	0-100%
29	Plate pixel 1 blue	0-255	0-100%
30	Plate pixel 2 red	0-255	0-100%
31	Plate pixel 2 green	0-255	0-100%
32	Plate pixel 2 blue	0-255	0-100%
33	Plate pixel 3 red	0-255	0-100%
34	Plate pixel 3 green	0-255	0-100%
35	Plate pixel 3 blue	0-255	0-100%
36	Plate pixel 4 red	0-255	0-100%
37	Plate pixel 4 green	0-255	0-100%
38	Plate pixel 4 blue	0-255	0-100%
39	Plate pixel 5 red	0-255	0-100%
40	Plate pixel 5 green	0-255	0-100%
41	Plate pixel 5 blue	0-255	0-100%
42	Plate pixel 6 red	0-255	0-100%
43	Plate pixel 6 green	0-255	0-100%
44	Plate pixel 6 blue	0-255	0-100%
45	Plate pixel 7 red	0-255	0-100%
46	Plate pixel 7 green	0-255	0-100%
47	Plate pixel 7 blue	0-255	0-100%
48	Plate pixel 8 red	0-255	0-100%
49	Plate pixel 8 green	0-255	0-100%
50	Plate pixel 8 blue	0-255	0-100%

51	Plate pixel 9 red	0-255	0-100%
52	Plate pixel 9 green	0-255	0-100%
53	Plate pixel 9 blue	0-255	0-100%
54	Plate pixel 10 red	0-255	0-100%
55	Plate pixel 10 green	0-255	0-100%
56	Plate pixel 10 blue	0-255	0-100%
57	Plate pixel 11 red	0-255	0-100%
58	Plate pixel 11 green	0-255	0-100%
59	Plate pixel 11 blue	0-255	0-100%
60	Plate pixel 12 red	0-255	0-100%
61	Plate pixel 12 green	0-255	0-100%
62	Plate pixel 12 blue	0-255	0-100%
63	Plate pixel 13 red	0-255	0-100%
64	Plate pixel 13 green	0-255	0-100%
65	Plate pixel 13 blue	0-255	0-100%
66	Plate pixel 14 red	0-255	0-100%
67	Plate pixel 14 green	0-255	0-100%
68	Plate pixel 14 blue	0-255	0-100%
69	Beam pixel 1	0-255	0-100%
70	Beam pixel 2	0-255	0-100%
71	Beam pixel 3	0-255	0-100%
72	Beam pixel 4	0-255	0-100%
73	Beam pixel 5	0-255	0-100%
74	Beam pixel 6	0-255	0-100%
75	Beam pixel 7	0-255	0-100%
76	Beam pixel 8	0-255	0-100%
77	Beam pixel 9	0-255	0-100%
78	Beam pixel 10	0-255	0-100%
79	Beam pixel 11	0-255	0-100%
80	Beam pixel 12	0-255	0-100%
81	Beam pixel 13	0-255	0-100%
82	Beam pixel 14	0-255	0-100%
83	Beam pixel 15	0-255	0-100%
84	Beam pixel 16	0-255	0-100%
85	Beam pixel 17	0-255	0-100%
86	Beam pixel 18	0-255	0-100%
87	Beam pixel 19	0-255	0-100%
88	Beam pixel 20	0-255	0-100%
89	Beam pixel 21	0-255	0-100%
90	Beam pixel 22	0-255	0-100%
91	Beam pixel 23	0-255	0-100%
92	Beam pixel 24	0-255	0-100%
93	Beam pixel 25	0-255	0-100%
94	Beam pixel 26	0-255	0-100%
95	Beam pixel 27	0-255	0-100%
96	Beam pixel 28	0-255	0-100%

Mode10(97CH):

97CH	Specific	DMX Value	Function
1	Tilt	0-255	0-100%
2	Tilt Fine	0-255	0-100%
3	Master dimme	0-255	0-100%
4	Plate dimmer	0-255	0-100%
5	Beam dimmer	0-255	0-100%
6	Plate flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
8	Beam flash duration	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
9	Beam flash rate	0-9	Classic shutter mode: disables duration control
		10-250	Slow to fast
		251-255	100% On, no flash/strobe
10	Plate pixel 1 red	0-255	0-100%
11	Plate pixel 1 green	0-255	0-100%
12	Plate pixel 1 blue	0-255	0-100%
13	Plate pixel 2 red	0-255	0-100%
14	Plate pixel 2 green	0-255	0-100%
15	Plate pixel 2 blue	0-255	0-100%
16	Plate pixel 3 red	0-255	0-100%
17	Plate pixel 3 green	0-255	0-100%
18	Plate pixel 3 blue	0-255	0-100%
19	Plate pixel 4 red	0-255	0-100%
20	Plate pixel 4 green	0-255	0-100%
21	Plate pixel 4 blue	0-255	0-100%
22	Plate pixel 5 red	0-255	0-100%
23	Plate pixel 5 green	0-255	0-100%
24	Plate pixel 5 blue	0-255	0-100%
25	Plate pixel 6 red	0-255	0-100%
26	Plate pixel 6 green	0-255	0-100%
27	Plate pixel 6 blue	0-255	0-100%
28	Plate pixel 7 red	0-255	0-100%
29	Plate pixel 7 green	0-255	0-100%
30	Plate pixel 7 blue	0-255	0-100%
31	Plate pixel 8 red	0-255	0-100%
32	Plate pixel 8 green	0-255	0-100%
33	Plate pixel 8 blue	0-255	0-100%
34	Plate pixel 9 red	0-255	0-100%
35	Plate pixel 9 green	0-255	0-100%
36	Plate pixel 9 blue	0-255	0-100%
37	Plate pixel 10 red	0-255	0-100%
38	Plate pixel 10 green	0-255	0-100%
39	Plate pixel 10 blue	0-255	0-100%
40	Plate pixel 11 red	0-255	0-100%

41	Plate pixel 11 green	0-255	0-100%
42	Plate pixel 11 blue	0-255	0-100%
43	Plate pixel 12 red	0-255	0-100%
44	Plate pixel 12 green	0-255	0-100%
45	Plate pixel 12 blue	0-255	0-100%
46	Plate pixel 13 red	0-255	0-100%
47	Plate pixel 13 green	0-255	0-100%
48	Plate pixel 13 blue	0-255	0-100%
49	Plate pixel 14 red	0-255	0-100%
50	Plate pixel 14 green	0-255	0-100%
51	Plate pixel 14 blue	0-255	0-100%
52	Beam pixel 1	0-255	0-100%
53	Beam pixel 2	0-255	0-100%
54	Beam pixel 3	0-255	0-100%
55	Beam pixel 4	0-255	0-100%
56	Beam pixel 5	0-255	0-100%
57	Beam pixel 6	0-255	0-100%
58	Beam pixel 7	0-255	0-100%
59	Beam pixel 8	0-255	0-100%
60	Beam pixel 9	0-255	0-100%
61	Beam pixel 10	0-255	0-100%
62	Beam pixel 11	0-255	0-100%
63	Beam pixel 12	0-255	0-100%
64	Beam pixel 13	0-255	0-100%
65	Beam pixel 14	0-255	0-100%
66	Beam pixel 15	0-255	0-100%
67	Beam pixel 16	0-255	0-100%
68	Beam pixel 17	0-255	0-100%
69	Beam pixel 18	0-255	0-100%
70	Beam pixel 19	0-255	0-100%
71	Beam pixel 20	0-255	0-100%
72	Beam pixel 21	0-255	0-100%
73	Beam pixel 22	0-255	0-100%
74	Beam pixel 23	0-255	0-100%
75	Beam pixel 24	0-255	0-100%
76	Beam pixel 25	0-255	0-100%
77	Beam pixel 26	0-255	0-100%
78	Beam pixel 27	0-255	0-100%
79	Beam pixel 28	0-255	0-100%
80	Beam FX	0-5	No function
		6- 042	Ramp up
		43-85	Ramp down
		86-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
		0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)

81	Plates foreground	7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
82	Plates foreground dimmer	0-255	
83	Plates background	0	No function
		1~2	White (2700K)
		3~4	White (3200K)
		5~6	White (4200K)
		7~8	White (5600K)
		9~10	White (8000K)
		11	Blue R: 0 G: 0 B: 255 W: 0
		12-48	Green+ / Blue R: 0 G: + B: 255 W: 0
		49	Cyan R: 0 G: 255 B: 255 W: 0
		50-86	Green / Blue- R: 0 G: 255 B: - W: 0
		87	Green R: 0 G: 255 B: 0 W: 0
		88-124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126-162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164-200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202-238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240-247	Color index, fast to slow
		248-255	Color snap, fast to slow
84	Plates background dimmer	0-255	
85	Plate 1 (pixels 1–7) FX select	0-2	Plate FX All select (all on)
		3-255	see Plate Patterns
86	Plates 1 (pixels 1–7) FX 86 movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
87	Plate 1 (pixels 1–7) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
88	Plate 2 (pixels 8–14) FX select	0-2	Plate FX All select (all on)

		3-255	see Plate Patterns
89	Plate 2 (pixels 8–14) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
90	Plate 2 (pixels 8–14) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
91	Beams 1 (pixels 1–14) FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
92	Beams 1 (pixels 1–14) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
93	Beams 1 (pixels 1–14) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
94	Beams 2 (pixels 15–28) FX select	0-2	Beam FX All select (all on)
		3-255	see Beam Patterns
95	Beams 2 (pixels 15–28) FX movement speed & direction	0-5	No function
		6-124	Left to right, fast to slow
		125-130	No function
		131-249	Right to left, slow to fast
		250-255	No function
96	Beams 2 (pixels 15–28) FX crossfade	0-2	Snap from cell to cell
		3-255	Fade duration: short to long
97	Control (hold for 3 seconds)	0-5	No function
		6-10	Dimmer curve linear
		11-15	Dimmer curve square
		16-20	Dimmer curve inverse square
		21-25	Dimmer curve s-curve
		26-55	No function
		56-60	Fan mode auto
		61~65	Fan mode on
		66~70	Tilt reset
		71~75	Plate1 invert off
		76~80	Plate1 invert on
		81~85	Plate2 invert off
		86~90	Plate2 invert on
		91~95	Beam1 invert off
		96~100	Beam1 invert on
		101~105	Beam2 invert off
		106~110	Beam2 invert on
		111~115	Plate swap off
		116~120	Plate swap on
		121~125	Beam swap off
		126~130	Beam swap on
		131~255	No function

Maintenance & cleaning of the fixture

The fixture needs to be maintained and cleaned daily, because its lifespan depends on working environment and daily maintenance. Please contact our company engineer for any questions and feedback which are out of this user manual to our professional engineer.

Notes as bellow:



- The power supply must be cut off before open the shell.
- Please open the shell after the fixture cooled completely
- Cleaning the optics components gently to avoid scratching the surface coating,
To avoid damaging plastic and scratching the surface coating,
Please don't use any harmful liquid or hard objects.
- Wiping the particulate Matter with tasteless tissue-paper or cotton cloth with clean,
distilled water. Don't wipe the surface, but blow away floating things with pressure gas,
any residues must be cleaned with distilled water from center to edge, and then dry it
with soft cotton cloth.
- Please change the lens in time when it cracks or has other damages
- It is out of warranty any damage caused by fan with overmuch dust, smoke fluidity and
abnormal using fixture.
- There is temperature protection device of the fixture, when the temperature is too high
the LED module will be off automatically. When this happens, please check if the fan is
working well or not. Plus, checking if the fan filter is blocked by dust. Please only reset the
fixture after the qualified professional technicians finish troubleshooting.
- Weekly cleaning and maintenance for the fan filters and lens is recommended. Please
do a complete maintenance half a year.

Troubleshooting

The following are some problems in process of operation, and there are some suggestions for troubleshooting:

Fixture doesn't response, when power on: channel failure:

- Check if power input is normal.
- Check if power switch is on.
- Check if fuse is burned.
- Step motor or motor leading wire Maybe damaged.
- Drive circuit of motor may be damaged.

Console losing control:

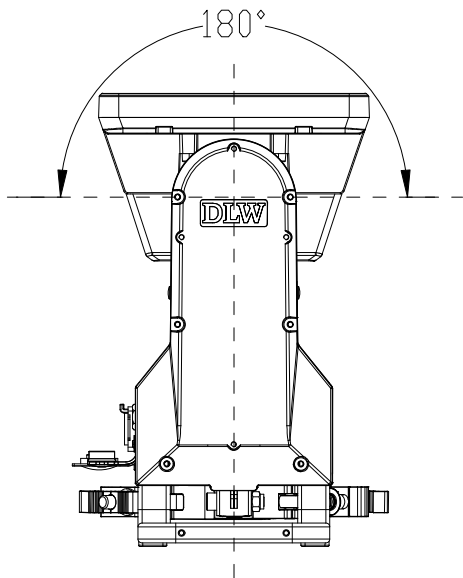
- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If the display is not flickering, but the fixture is still have no response to the control channel instructions, please check if IP address is correctly set.
- If DMX signal is not stable, please check XLR socket and signal cable are connected well.
- Change another console for testing.

LED blinking:

- Check if the voltage is too high or too low, when the led is abnormal lighting.
- It is necessary to change the fan if the inner temperature is too high.

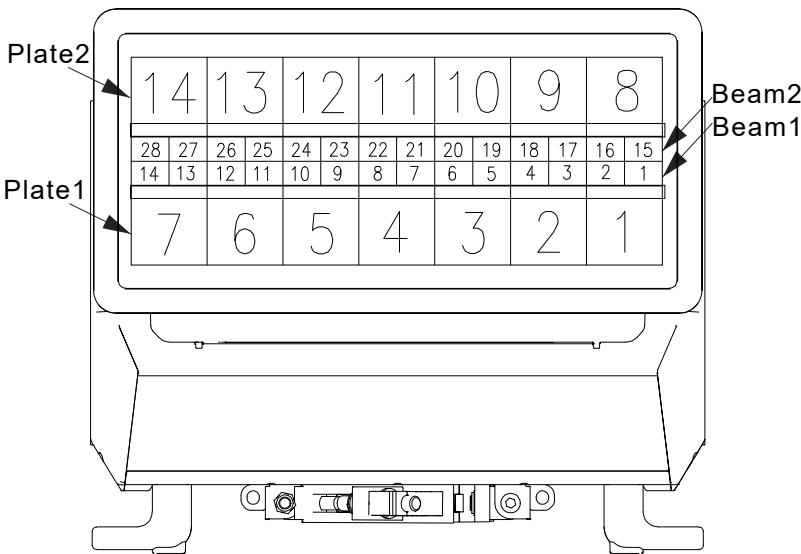
Attachment 1 Angle range and the measurement figure of the fixture

● Angle range of the fixture



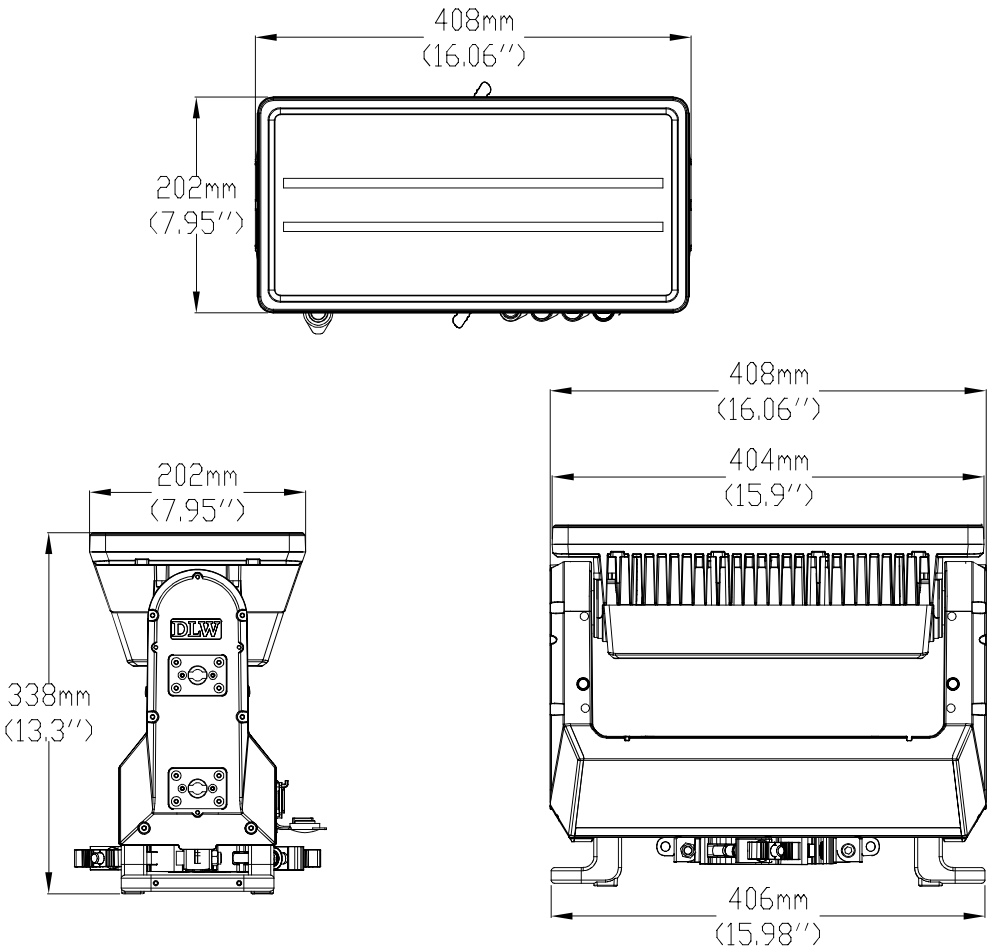
Vertical direction

● Pixel Mapping

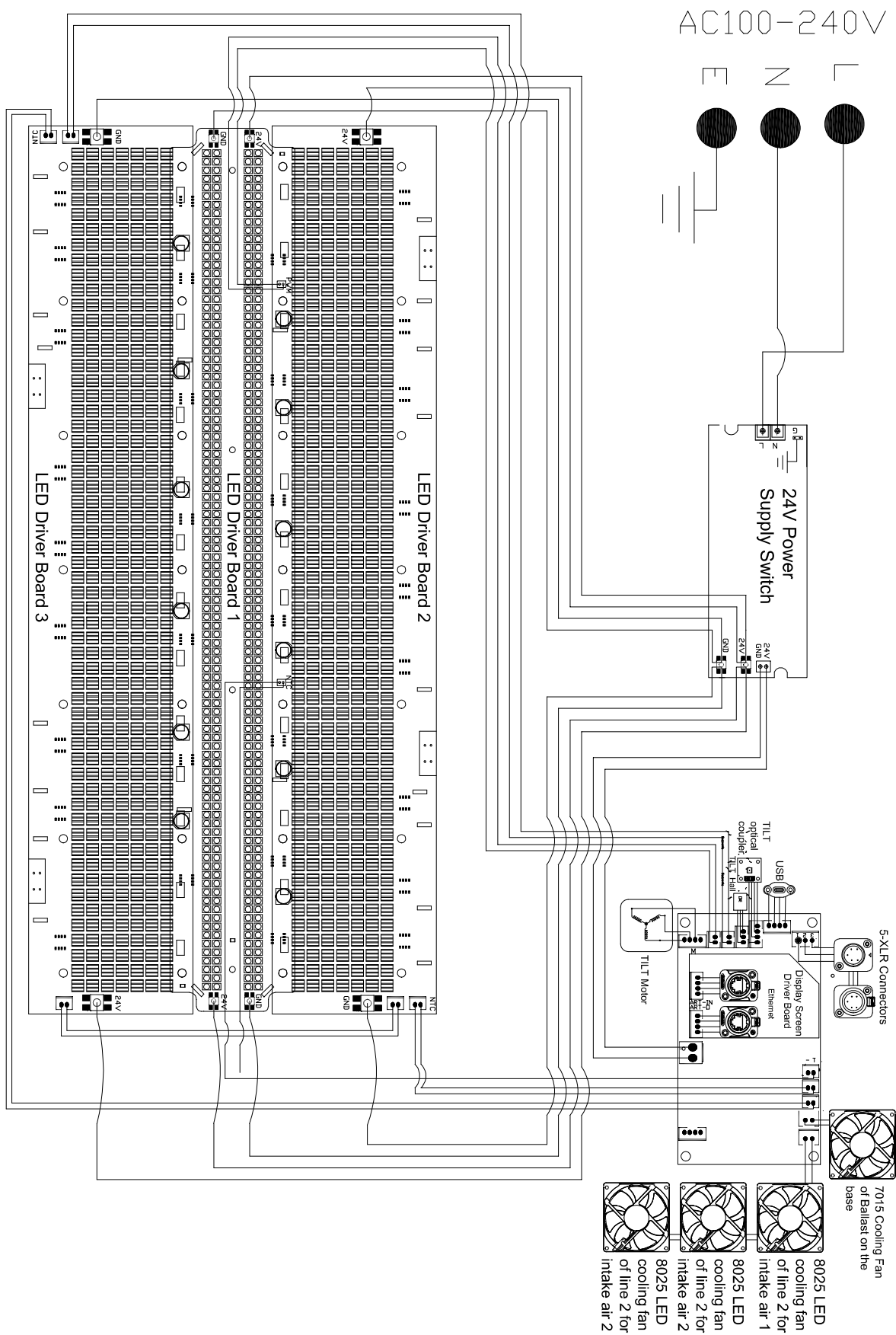


TILT DMX 255

● The measurement figure of the fixture



Attachment 2:Electrical Diagram



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