

DLW

Product Manual

DLW L10100BAR IP

Contents

Safety Information	2/3
Package & Transportation	4
Fixture Package	4
Unpacking	4
Accessories with fixture	4
Product Technical Specification	5
Electrical parameters	5
Light Source parameters	5
Optics parameters	5
Effect Configuration	5
Electronic Control	5
Fixture Size& Weight	5
Operation Panel	6
Operation Panel Instruction	6
Detailed Operation Table of Display panel	7
Signal Connection	8
Power Connection	9
Connection type	9
Installation instruction& requirement	10
G-clamp Installation	10
Fixture Installation	10
Piece together the fixture	11
DMX Channel Sheet(Brief)	12/13
Fixture maintenance& cleaning	14
Fault handling	14
Attachment1:Angle range and the measurement figure of the fixture	15/16
Attachment 2: Electrical Diagram	17

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

Input Voltage: AC 100 - 240V 50 / 60 Hz;

Maximum Power Consumption:540W ; Maximum Input Current:5.4A.

Light Source parameters

- Light Source Type:10*100W Single White Dual-CCT LEDs;
- Color Rendering Index(CRI):Ra $\geq$ 90 ; LED Lifetime: 20000 hours.

Optics parameters

- Beam Angle: 24° / 36° /60°

Effect configuration

- Color Options:Single White 3000K and 6500K;
- Strobe:1-25Hz variable-speed synchronous or random electronic strobe;
- Dimming: Smooth 0-100% dimming with 4 selectable dimming curves;
- Color Temperatrue:Linear adjustment from 3000K to 6500K;
- Equipped with manually adjustable barndoor.

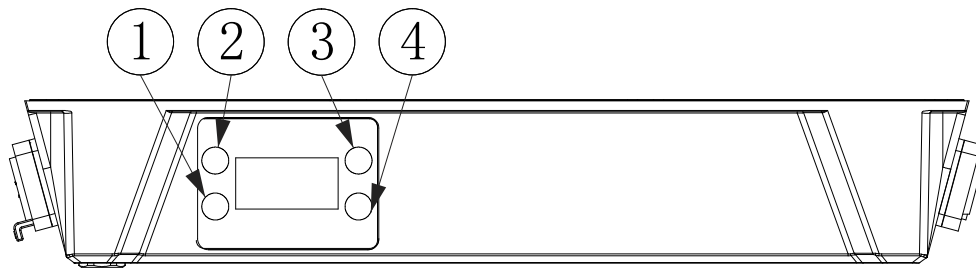
Electronic Control

- DMX Channel Modes: 6CH/ 9CH / 23CH;
- Control protocol: DMX512, RDM;(optional:Art-Net,sACN);
- Data Portals: Waterproof XLR-5;(optional Ethernet port:RJ45 In/Out);
- Menu display: OLED screen with4-touch buttons;
- Electronic sensor detection, fan intelligent detect and control temperature.

Fixture Size& Weight:

- Fixture Dimensions:1006X97X179mm;
- Net weight:10Kg;
- Ambient Temperature:-20°C~40°C;
- IP Rating:IP66.

Operation Panel Instruction



Display Panel

Pic1

As shown in pic 5:

- | | |
|--------|----------------|
| 1.Down | 3.Enter |
| 2.Up | 4.Menu(Return) |

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: press and hold buttons of "Menu", "Up", "Confirm", "Down" for 1 second each.

Detailed Operation Table of Display panel

Main Menu		
STAT	CW	000-XXX
	WW	000-XXX
	Strobe	000-XXX
DMX ADD	001-512	
CHANEL MODE	6CH	
	9CH	
	23CH	
DIM SPEED	Off	
	1-4	
DIM CURVE	Square law	
	Inv SQ Law	
	S Curve	
	Linear	
DIM FREQ	1.2K	
	6 K	
	12 K	
	25 K	
TEMP	CURRTEMP	
SCENE MODE	Theatre	
	Silence	
	Auto	
SET	Color adjust	CW (000-XXX)
		WW (000-XXX)
	DisplayInvert	No
		Yes
	Screen Lock	No
		Yes
	Paramete Reset	No
		Yes
	Version	XXX
	Language	Chinese
		English
	Run Time	Hours of use(XXH)
	Reset Time	
Automatic test		

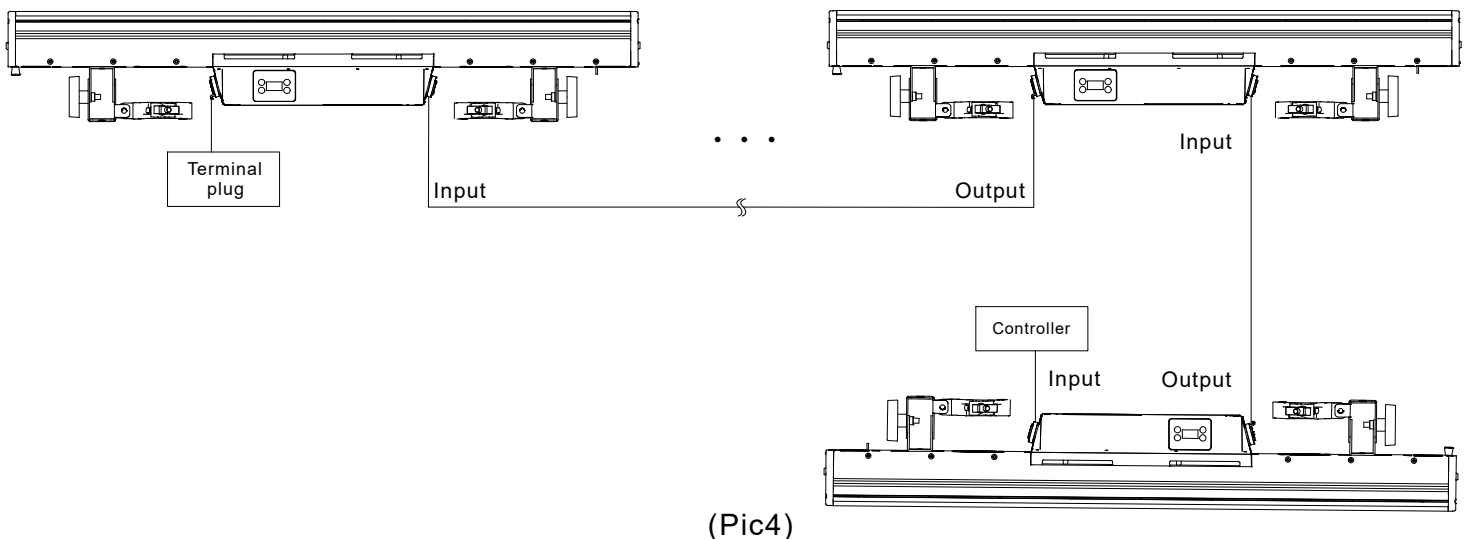
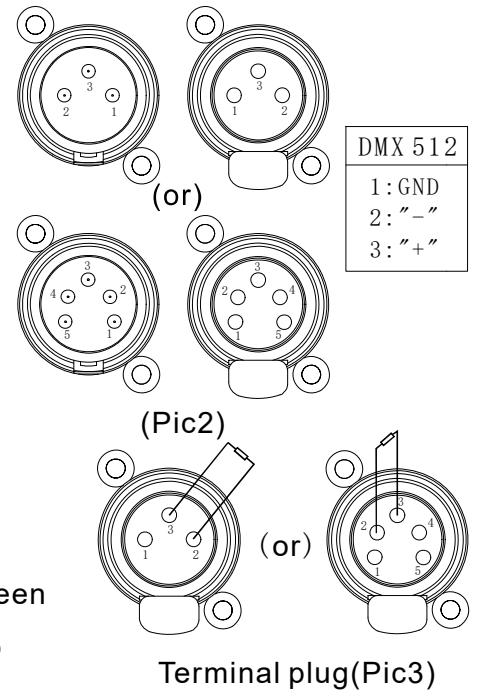
Signal connection

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)



- Notice:
- Don't use multi- output connector 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 6 units (2.5mm²).
- AC110V: Lighting fixture connection not surpass 3 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

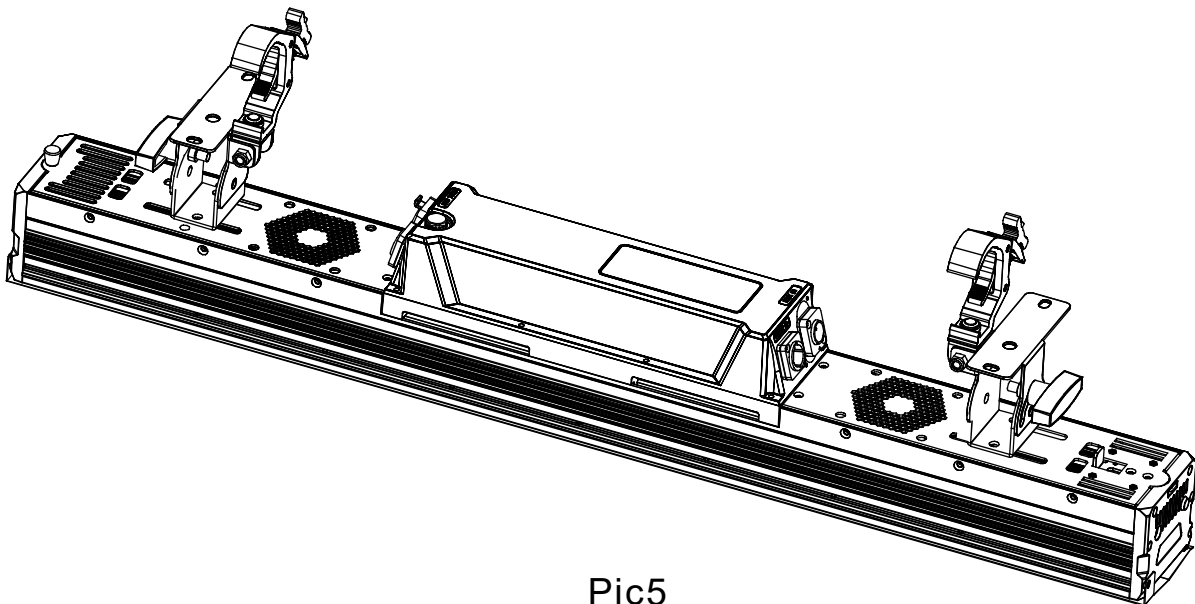
The fixture comes with the G-clamp. (Pic 5)

Fixture Installation

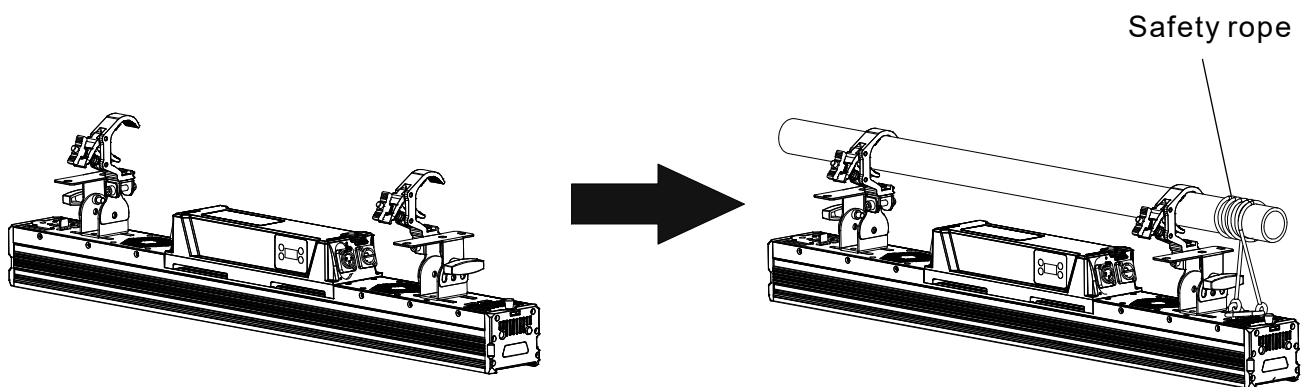
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly and quickly. (Pic 6)

Notice:

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



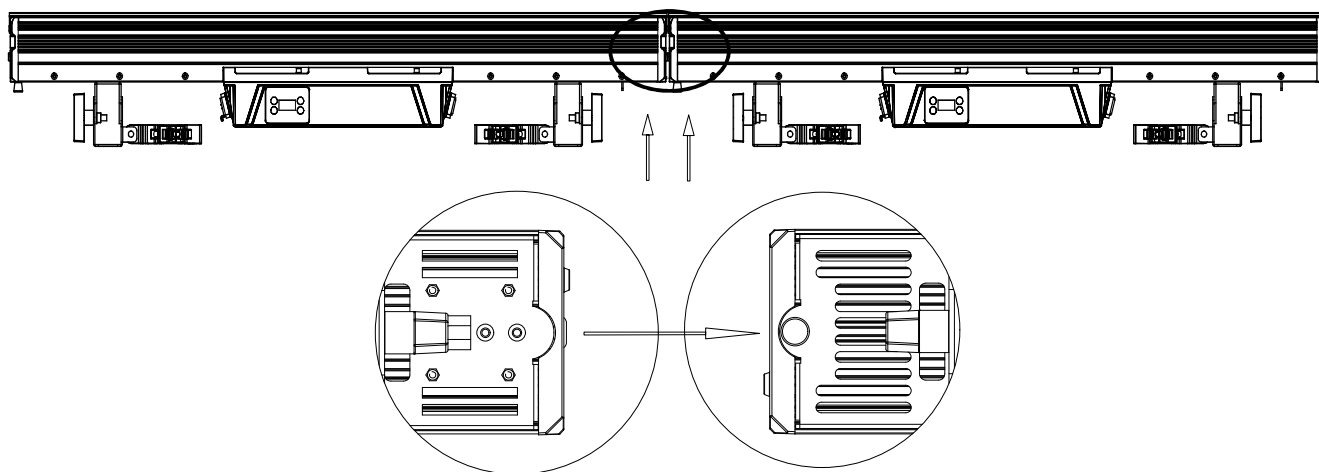
Pic5



Pic6

Piece together the fixture

- Aim the bolt at the hole first and plug the bolt into the hole (follow the arrow direction) (Pic 7)



Aim the bolt at the hole

Pic7

DMX Channel Sheet (Brief)

6CH	9CH	23CH	Channel	DMX Value	Channel Function
1	1	1	Dimming	000-255	Dimming 0%-100%
2	2	2	Dimming fine	000-255	Dimming 0%-100%
-	3	-	Flash	000-019	Off
				020-049	Open
				050-100	Flash,from slow to fast
				101-150	(slow begin fast off) from fast to slow
				151-200	(fast begin slow off) from slow to fast
				201-210	Open
				210-255	Stochastic Flashing, from slow to fast
3	4	-	Warm white	000-255	0%-100%
4	5	-	Cool white	000-255	0%-100%
5	6	-	Color temperature	000-255	3000K to 6500K Linear Transformation
-	7	-	Effect	000-004	No function
				005-255	Every 5 Values have an effect
-	8	-	Effect speed	000-127	Clockwise speed from slow to fast
				128-255	Counter-Clockwise speed from slow to fast
6	9	3	Control channel	000-049	No function
				050-054	1.2K
				055-059	6 K
				060-064	12 K
				065-069	25 K
				070-079	No function
					Dimming curve control
				080-084	Dimming curve 1
				085-089	Dimming curve 2
				090-094	Dimming curve 3
				095-099	Dimming curve 4
				100-255	No function
-	-	4	Warm white 1	000-255	0%-100%
-	-	5	Cool white 1	000-255	0%-100%
-	-	6	Warm white 2	000-255	0%-100%
-	-	7	Cool white 2	000-255	0%-100%
-	-	8	Warm white 3	000-255	0%-100%
-	-	9	Cool white 3	000-255	0%-100%
-	-	10	Warm white 4	000-255	0%-100%
-	-	11	Cool white 4	000-255	0%-100%
-	-	12	Warm white 5	000-255	0%-100%
-	-	13	Cool white 5	000-255	0%-100%

-	-	14	Warm white 6	000-255	0%-100%
-	-	15	Cool white 6	000-255	0%-100%
-	-	16	Warm white 7	000-255	0%-100%
-	-	17	Cool white 7	000-255	0%-100%
-	-	18	Warm white 8	000-255	0%-100%
-	-	19	Cool white 8	000-255	0%-100%
-	-	20	Warm white 7	000-255	0%-100%
-	-	21	Cool white 7	000-255	0%-100%
-	-	22	Warm white 8	000-255	0%-100%
-	-	23	Cool white 8	000-255	0%-100%

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.

Console losing control:

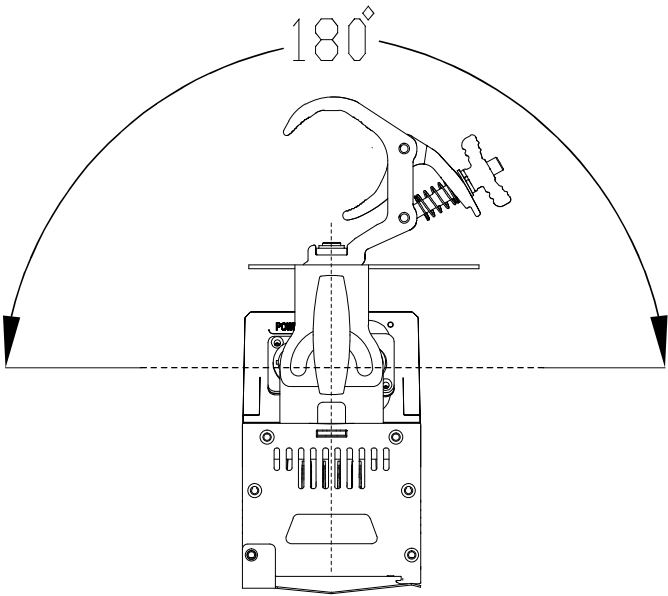
- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If the display is not flickering, but the fixture is still have no response to the control channel instructions, please check if IP address is correctly set.
- If DMX signal is not stable,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

Lamp blinking:

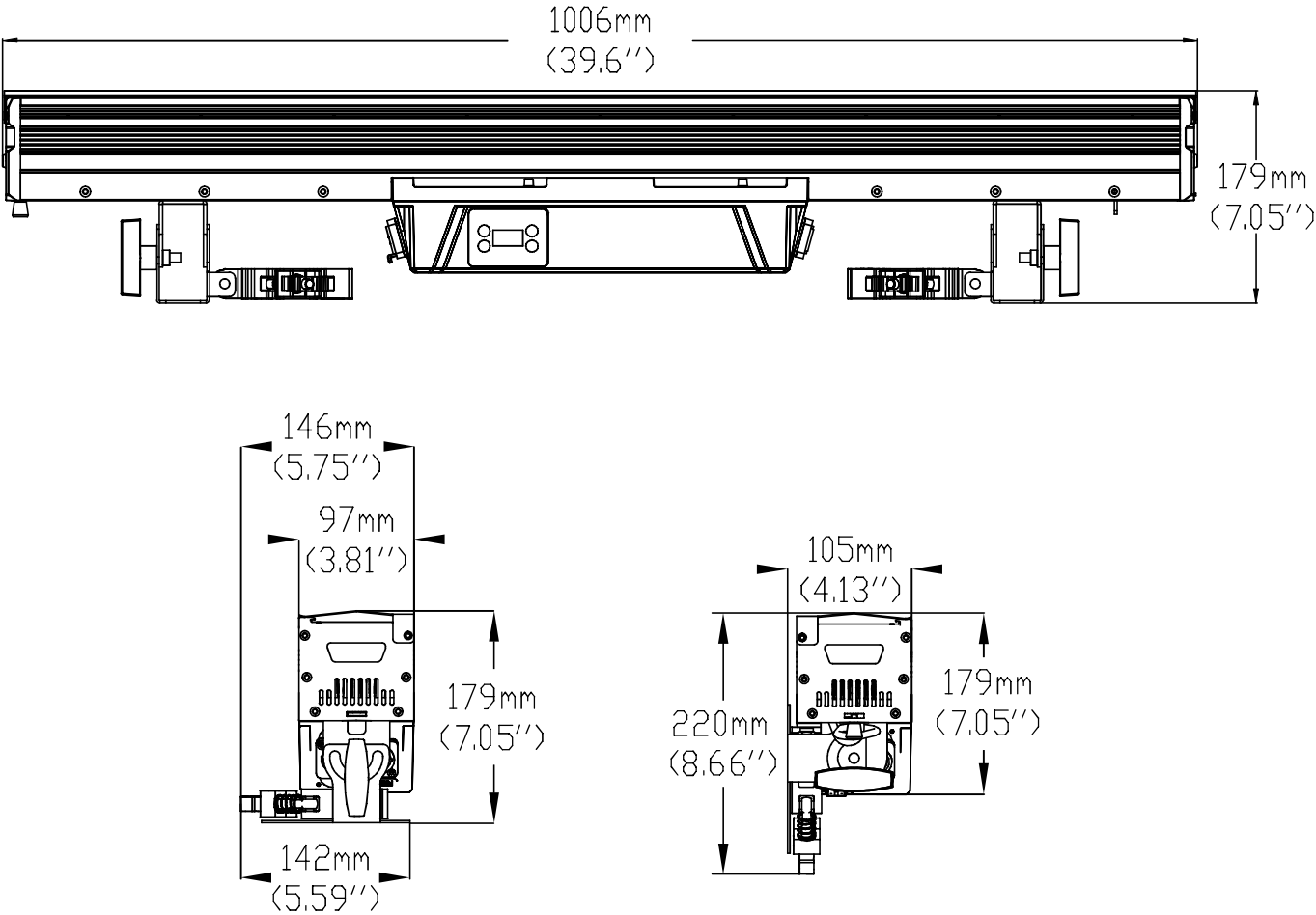
- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary to change the fan if the inner temperature is too high.

Attachment 1 Angle range and the measurement figure of the fixture

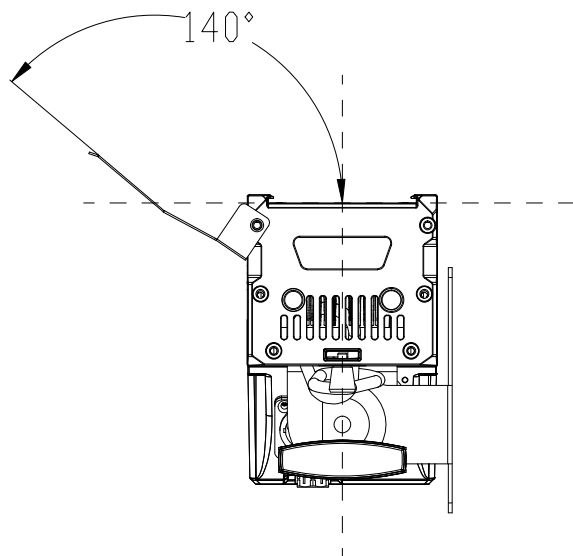
● Angle range of the fixture



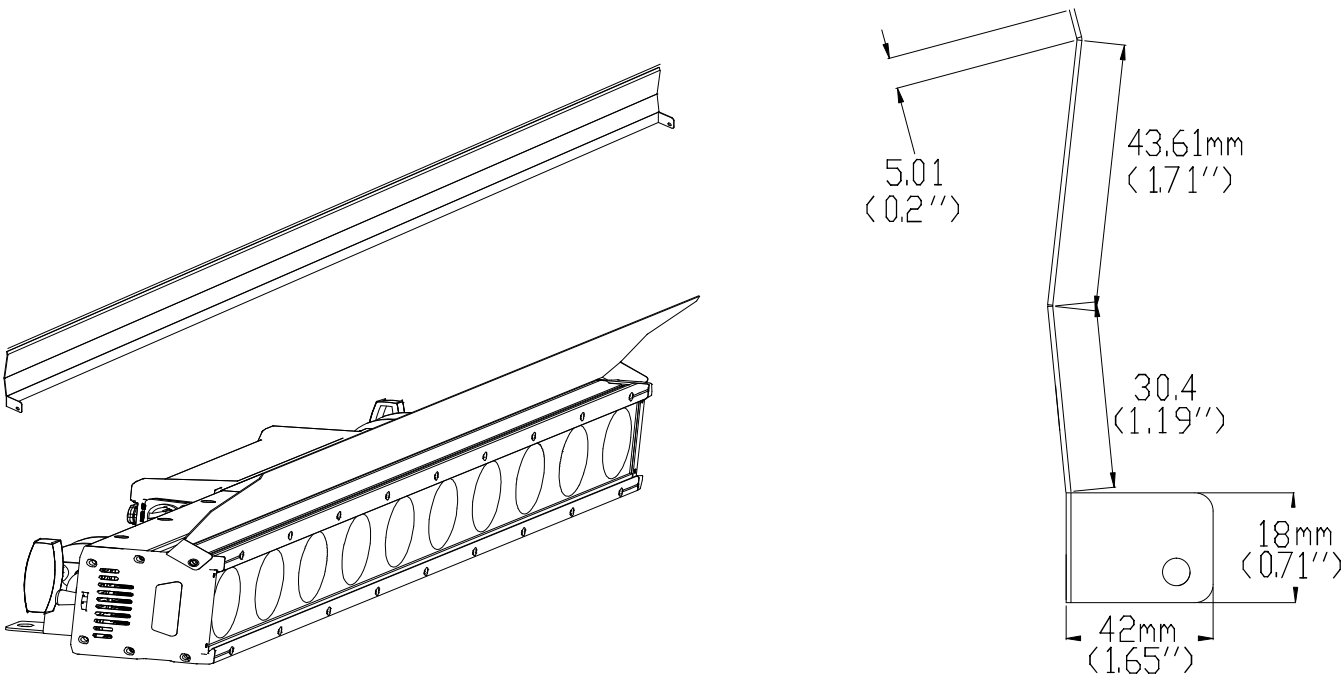
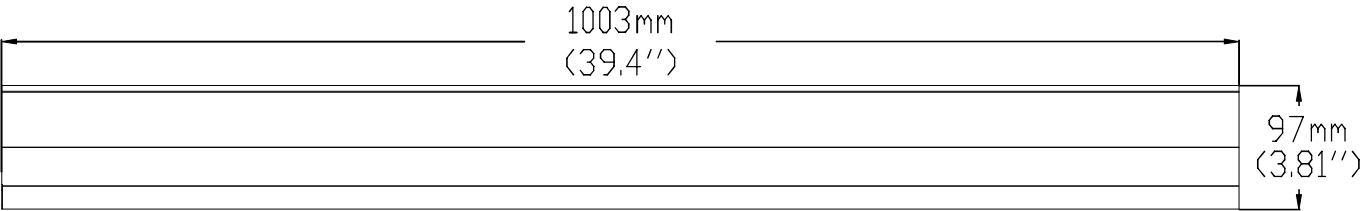
● The measurement figure of the fixture



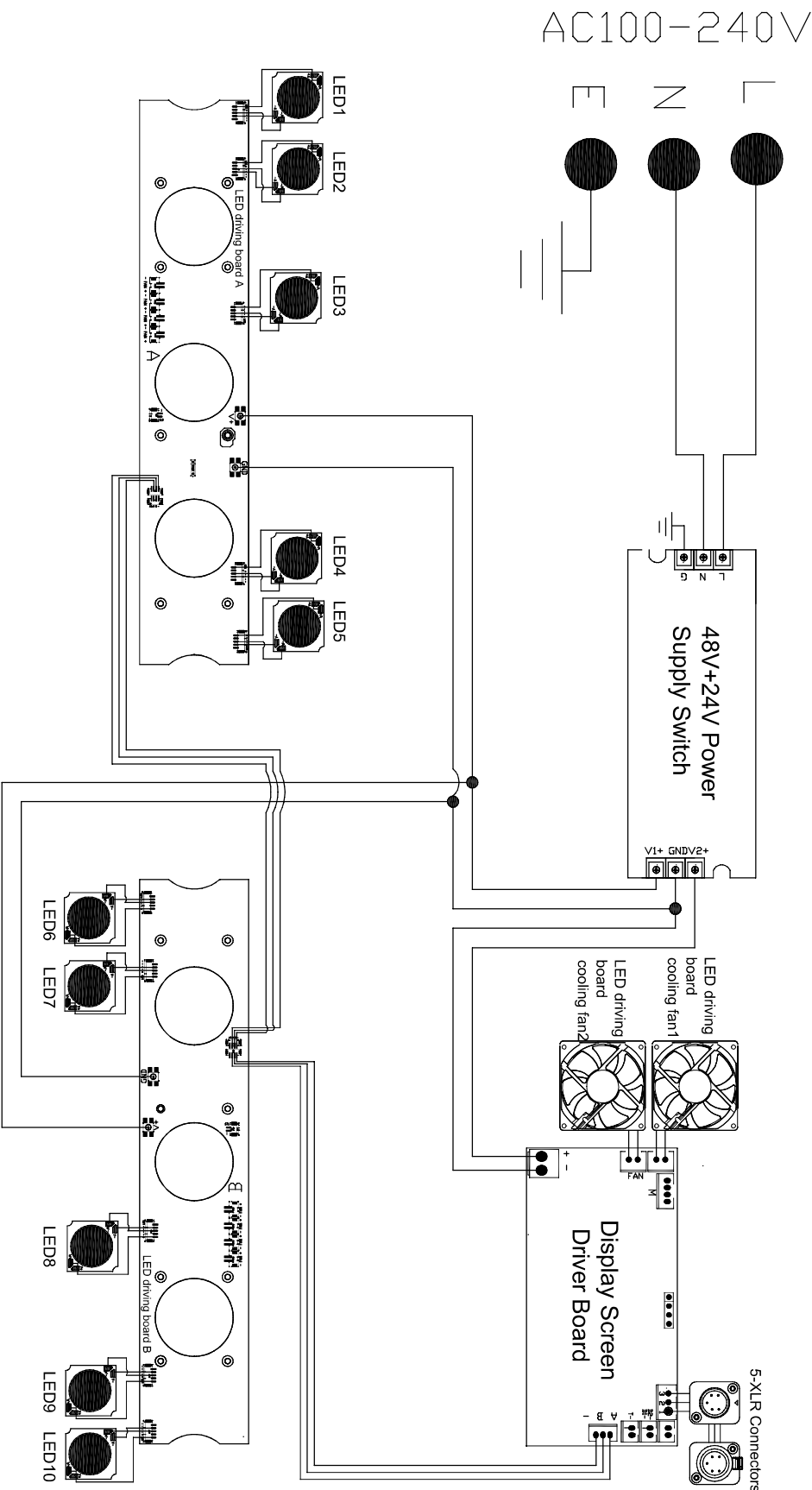
● Angle range of the light shield



● The measurement figure of the fixture



Attachment 2:Electrical Diagram



ADD. No.21,Ruixiang Road,Xinhua Industrial Zone.Huadu District,Guangzhou

Tel. 020 - 8161 2345

Fax. 020 - 3686 6631

Website: www.dlw-lighting.com

