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Declaration

This product has passed the final check for both functionalities and package when delivered from the factory. All users should observe the instructions and pay attentions to the warnings covered by this manual. Unreasonable damages resulting from unintended operations or not heeding instructions covered by this manual will void the warranty. Specifications in this manual intend for reference only, the fixture delivered takes the priority. Any future modification pertaining to content of this manual, there will be no particular notifications. FINE ART reserves all.

To obtain the latest information about software update, hardware and other files, please visit FINE ART website.

1. Safety information

The following symbols are used to identify important safety information on the product and in this manual:



DANGER!
Hazardous voltage.
Risk of severe or lethal electric shock.



DANGER!
Safety hazard.
Risk of severe injury or death.



DANGER!
Refer to manual before installing, powering or servicing.



Warning!
Fire hazard.



Warning!
Burn hazard.
Hot surface.
Do not touch.



Warning!
Risk of eye injury.
Safety glasses must be worn.



Warning!
Risk of hand injury.
Safety gloves must be worn.



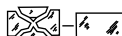
For indoor use only



Do not direct lens to sun ray or strong light!



Do not actuate during operation



Replace any cracked protective shield



Minimum distance from lighted objects (metres)



Rated maximum ambient temperature



WARNING!

Read the safety precautions in this section before installing, powering, operating or servicing this product.

After receiving the fixture, please unpack and check if there is any damage due to transportation. If any obvious damage or flaw is found, do not put it into use and contact the distributor or manufacturer as soon as possible.



This fixture is intended for professional use only. When operating the fixture, attentions should be drawn to fire/electric-shock hazards and lethal injuries caused by fall.



Read this User Manual before mounting and energizing the fixture. Observe the safety guideline and notice the warnings both in this User Manual and on the fixture. Yet any safety concerns not covered hereby, contact the distributor or service hot-line.

Protection against over heat

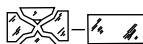


The fixtures are suitable for indoor environment, its protection rating is IP20.

The fixture should be kept dry and avoid working in presence of moisture, over-heat or heavy smokes.

$t_a = 40^{\circ}\text{C}$

The natural working temperature should be lower than 40 degrees. If the ambient temperature exceeds 40 degrees, please stop operating the unit immediately.



Protection against explosion

Protection screen must be replaced if they have become visible damaged to such an extent that their effectiveness is impaired.

Protection against injury due to falls



To inspect that the structure and the truss hooks are in good condition and can bear about 10 times the weight of the fixture.

Ensure the cover and all riggings are securely fastened, safety wire is necessary to use as a secondary attachment.

Block access below the working area and work from a stable platform while installing, servicing or moving the fixture.

Protection against electrical shock



All connections or maintenances must be performed by a qualified person with technical certificate.

Make sure that the mains power supply you use is up to local construction and electronic code regulation, the over-load protection reliable earthing is essential.



Each fixture must be grounded correctly, and be installed according to related regulation.

Disconnect the fixture from mains supply before replacing any fuse.

Avoid using the fixture in damp environment.

Protection against burning or fire



Do not attempt to bypass the thermostat switch or fuse.

Replace defective fuses with specified ratings only.

Please don't touch the moving head during movement.

Under the steady working state, the max temperature of exterior surface is 65°C.

The minimum distance between the fixture and the lighted objects is 0.2m.

Ensure a minimum clearance of 0.1m around the cooling fans and ventilations



Keep flammable materials far away from the fixture. Minimum distance from the flammable materials is 0.5m.

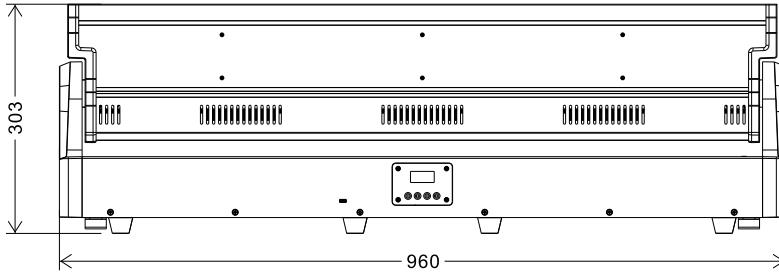
Do not place any filter or other object onto the optical lens.

Do not revise the fixture or install any parts not from GUANGZHOU CHAIYI LIGHT CO.,LTD.

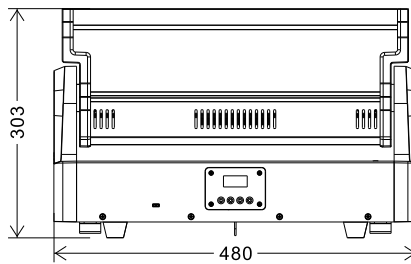
2.Product introduction

2.1 Fixture profile dimension

● Front view

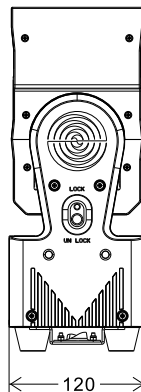


FINE 608 BATTEN



FINE 604 BATTEN

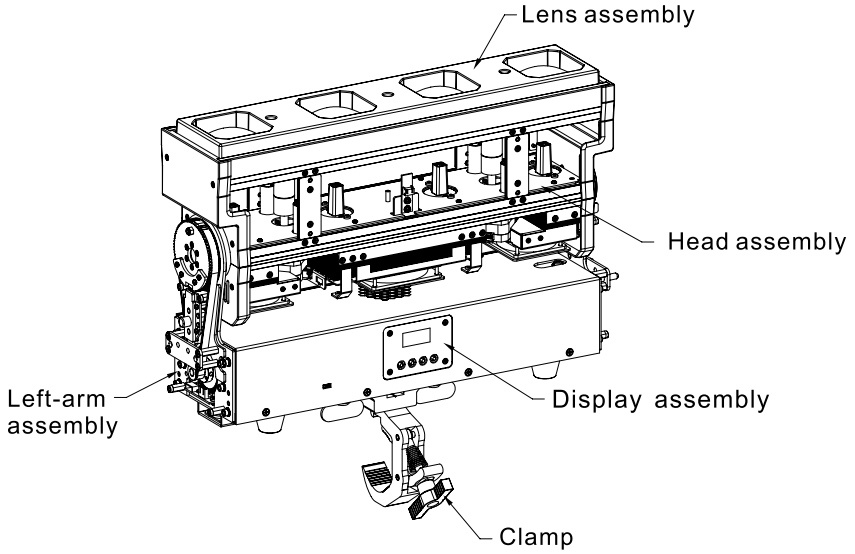
● Side view



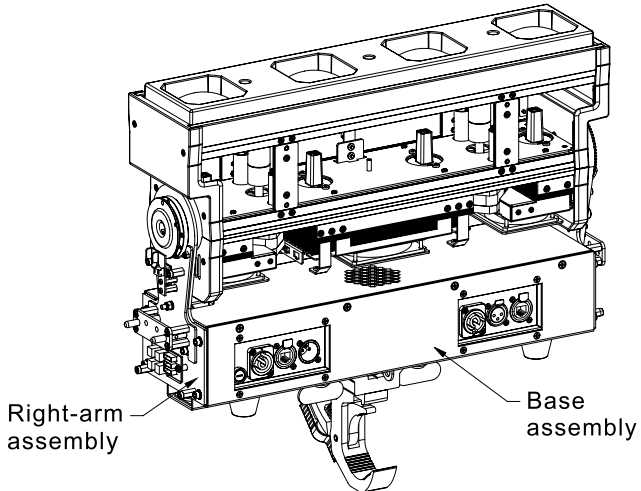
FINE 604/608 BATTEN

2.2 Fixture introduction

FINE 604 BATTEN

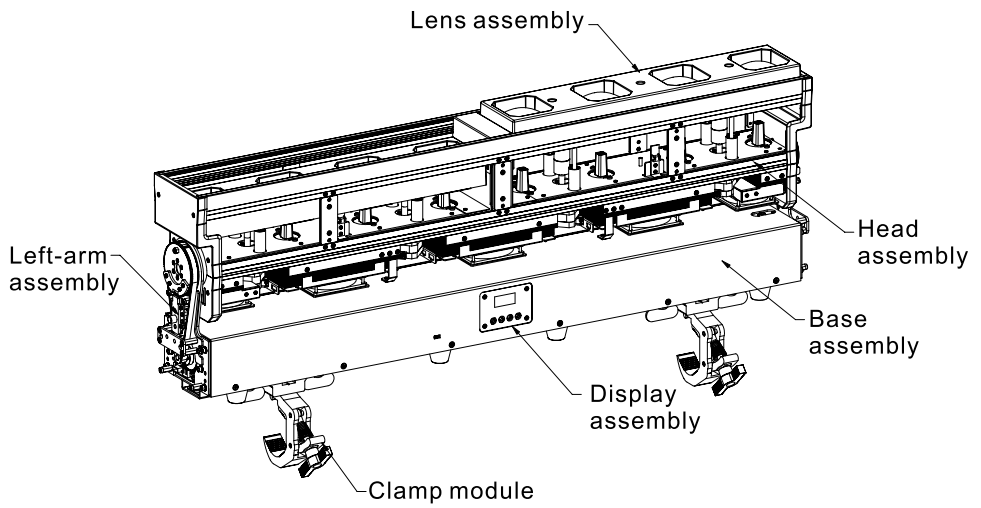


(2.2-1) Front view

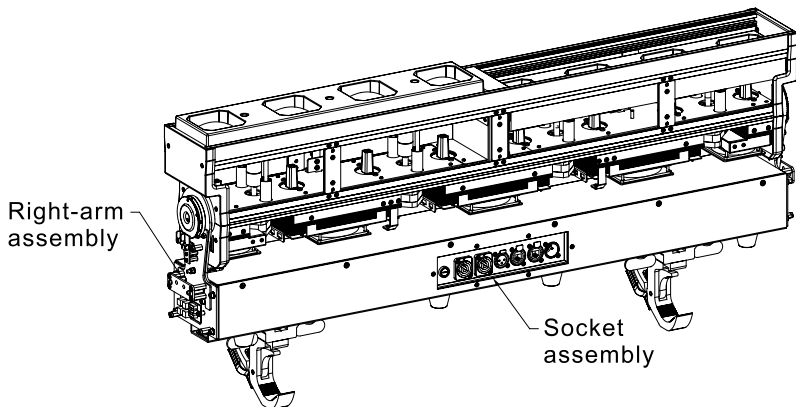


(2.2-2) Back view

FINE 608 BATTEN



(2.2-1)Front view



(2.2-2)Back view

2.3 Fixture splicing

FINE 604 BATTEN

Truss splicing:

Roll out the side splicing lock of the fixture. The pillars of the splicing lock are aligned with the side hole of the other fixture for splicing. Making the side panels of the two fixtures close together. Install the splicing quick lock assembly on the bottom cover of the fixture base and lock it tightly.

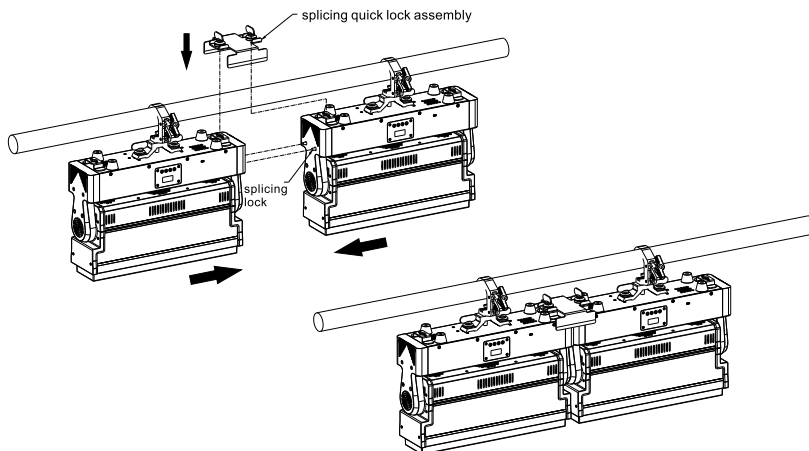


Fig.(2.3-1)

Place the splicing on the ground :

Roll out the side splicing lock of the fixture. The pillars of the splicing lock are aligned with the side hole of the other fixture for splicing, which makes the side panels of the two fixtures close together. The splicing support plate 2 of the splicing assembly passes under the side panel that the lamp is close to after removing the splicing plate of the horizontal splicing assembly placed on the ground. And, the splicing plate 1 is hung on the upper surface of the fixture's base assembly. Then on the back of the fixture, insert the splicing plate 2 into the corresponding square slot of the splicing support plate. Finally, tighten the two nuts on the support plate.

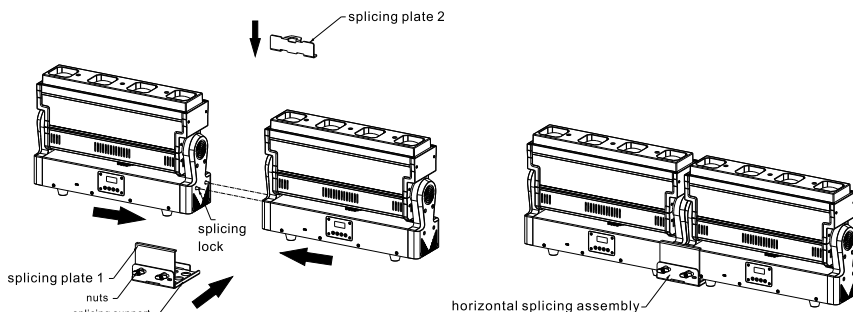


Fig.(2.3-2)

FINE 608 BATTEN

Truss splicing:

Roll out the side splicing lock of the fixture. The pillars of the splicing lock are aligned with the side hole of the other fixture for splicing. Making the side panels of the two fixtures close together. Install the splicing quick lock assembly on the bottom cover of the fixture base and lock it tightly.

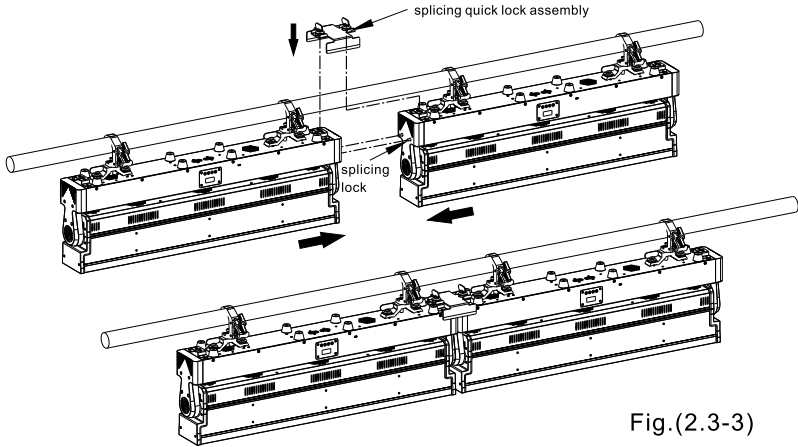


Fig.(2.3-3)

Place the splicing on the ground :

Roll out the side splicing lock of the fixture. The pillars of the splicing lock are aligned with the side hole of the other fixture for splicing, which makes the side panels of the two fixtures close together. The splicing support plate 2 of the splicing assembly passes under the side panel that the lamp is close to after removing the splicing plate of the horizontal splicing assembly placed on the ground. And, the splicing plate 1 is hung on the upper surface of the fixture's base assembly. Then on the back of the fixture, insert the splicing plate 2 into the corresponding square slot of the splicing support plate. Finally, tighten the two nuts on the support plate.

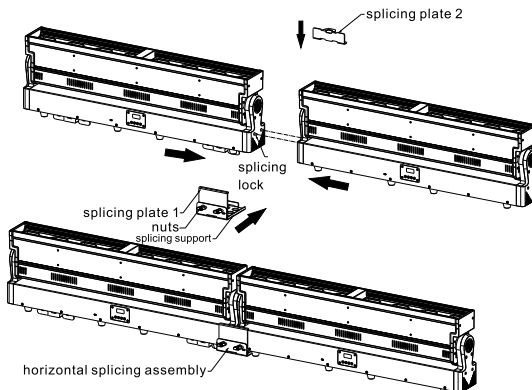


Fig.(2.3-4)

For the convenience of transportation, a protection lock is provided on the Y axis, as shown in the figure below:

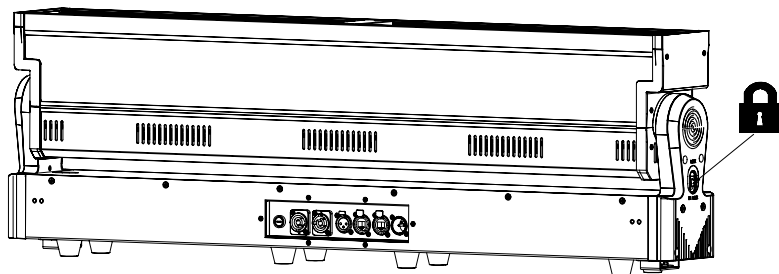


Fig.(2.3-5)

3.Package & delivery

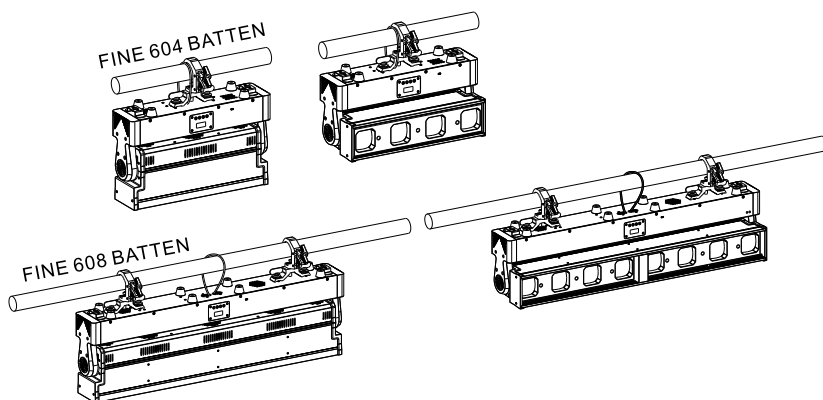
Flight case package. When using a flight case, FINE 604 BATTEN comes standard with one pack of eight; FINE 608 BATTEN comes standard with one pack of four; the accessories items are shown in the following table.

Accessories	FINE 604 BATTEN	FINE 608 BATTEN	UNIT
Clamp module	1	2	PCS
Fuse	2	2	PCS
Safety rope	1	1	PCS
Signal wire	1	1	PCS
Power extension cord	1	1	PCS
Female plug	1	1	PCS
Usermanual	1	1	PCS
Warranty card	1	1	PCS

4.Installation

User must be termly check the fixture and its install materials, if you are non-qualified to check that, please contact the professional person. Wrong installation will result in fatal hazard.

The fixture working ambient temperature are between $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$, When ambient temperature over the range, don't operate the fixture. When the fixture are in installation, teardown, remove or servicing, don't stand under the fixture. Operator must be insure the fixture are safely connected. The input power supply must match the specific type demanded by the fixture. Make sure the installation check annually by professional person. The fixture of light source shall be replaced by the manufacturer or service agent or someone with similar qualifications.

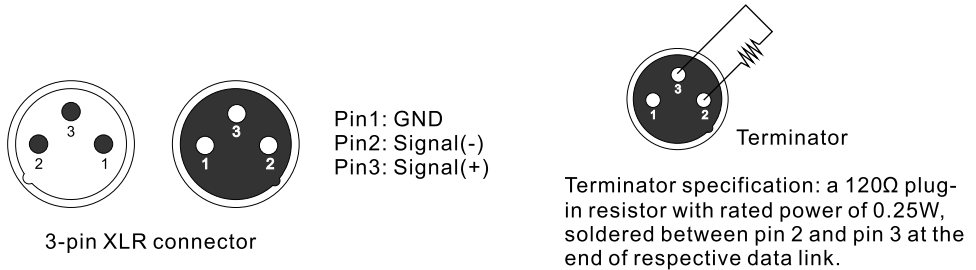


5. Data link

Note: The signal cable is type X connection.

Type X connection—if the external flexible cable or cord of this fixture is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.

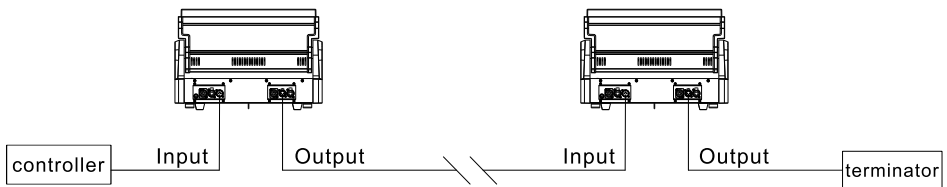
3-pin XLR or 5-pin XLR connectors are provided for fixture DMX input and output. Pin 1 is for earthing, pin 2 is for minus signal, and pin 3 is for plus signal. To prevent and absorb the reflection and interference of the signal, each data link must be ended by a respective terminator.



Connect the 3-pin or 5-pin output of a lighting controller to the 3-pin or 5-pin input of a first fixture on the link, then connect the 3-pin or 5-pin output of the first fixture to the second fixture. Similarly, repeat the above connection steps and end the data link with a plug-in terminator. Shown as Fig. 5.1-1 below.

If long-distance data transfer occurs, a DMX512 signal amplifier is necessary. The added amplifier is inserted between the lighting controller and the first fixture on the basis of a normal data link.

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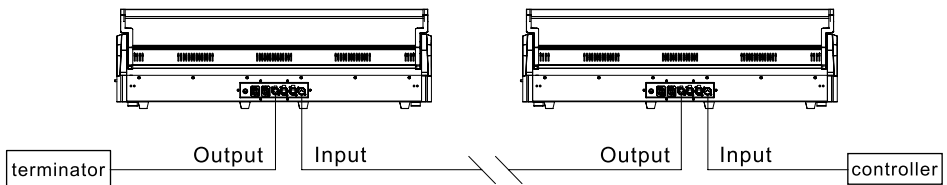


Fig.(5.1-1)

Notice:

- 1. No more than one signal input or output can occur in one fixture.
- 2. Don't split a data link via output ports on the fixture, use a DMX512 signal amplifier instead, if necessary.
- 3. Use only shielded-pair cables, and standard microphone cable is not reliable for long-distance data transfer.

RJ45 Connection

Note: Type X attachment for the signal cable.

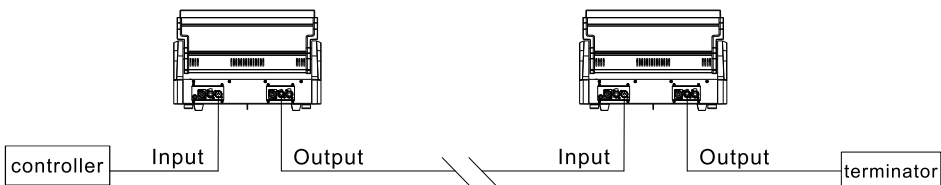
Rj45 connector is provided for fixture RJ45 input and output. The RJ45 socket uses a standard 568A network cable connection. That supports 10M/100M/1000M data connection. The built-in switch can adapt to speed.



Connect the RJ45 connector of a lighting controller to the RJ45 connector of a first fixture on the link, then connect the RJ45 connector of the first fixture to the second fixture . Similarly, repeat the above connection steps and end the data link with a plug-in terminator. Shown as Fig.5.1-1 below.

If long-distance data transfer occurs, a network switch is necessary. The added network switch is inserted between the lighting controller and the first fixture on the basis of a normal data link.

FINE 604 BATTEN



FINE 608 BATTEN

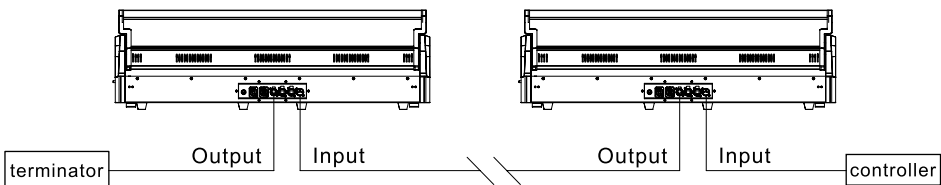


Fig.(5.1-2)

Notice:

1. No more than one signal input or output can occur in one fixture.
2. Don't split a data link via output ports on the fixture, use a network switch instead, if necessary.
3. Please use the CAT5/CAT6 network cable. The length of the network cable should not exceed 100m.

6. Power Connection

Notice: Type X attachment for power supply connection.

Method of attachment of the cable or cord such that any replacement can only be made by the manufacturer, his service agent or similarly qualified person.

The person must have the relevant qualification to connect the power supply. The AC power voltage shall be suitable to the fixture provided with over-loading or creepage protection.

Connecting the equipment to the power supply, do not connect to siliconbox system, or else, it will destroy the equipment. The fixture is provided with standard 3-pin socket. Please according to table 6.1-1 connect to power supply, Yellow/green line must be earthed. If you still have any question to the installation, please consult with the experienced electrician.


Color	Wire	Mark
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

Table 6.1-1

Note:

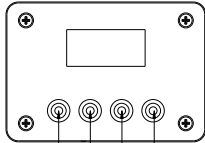
FINE 604 BATTEN: Up to 5 fixtures can be connected in series under 110V input, up to 10 fixtures can be connected in series under 220V input .

FINE 608 BATTEN: Up to 3 fixtures can be connected in series under 110V input, up to 6 fixtures can be connected in series under 220V input.

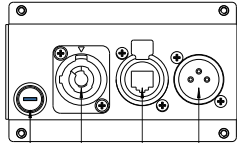
7. Control Panel

7.1 Control Panel Introduction

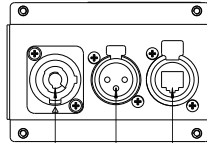
FINE 604 BATTEN



① ② ③ ④



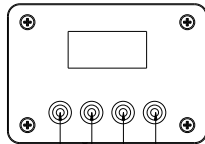
⑤ ⑥ ⑦ ⑧



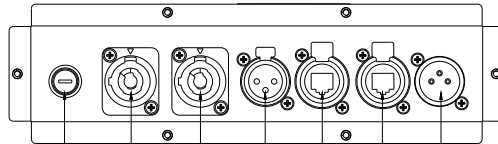
⑨ ⑩ ⑪

- 1.Menu
- 2.Enter
- 3.Up
- 4.Down
- 5.Fuse
- 6.Power input
- 7.Ethernet input
- 8.DMX input
- 9.Power output
- 10.DMX output
- 11.Ethernet output

FINE 608 BATTEN



① ② ③ ④

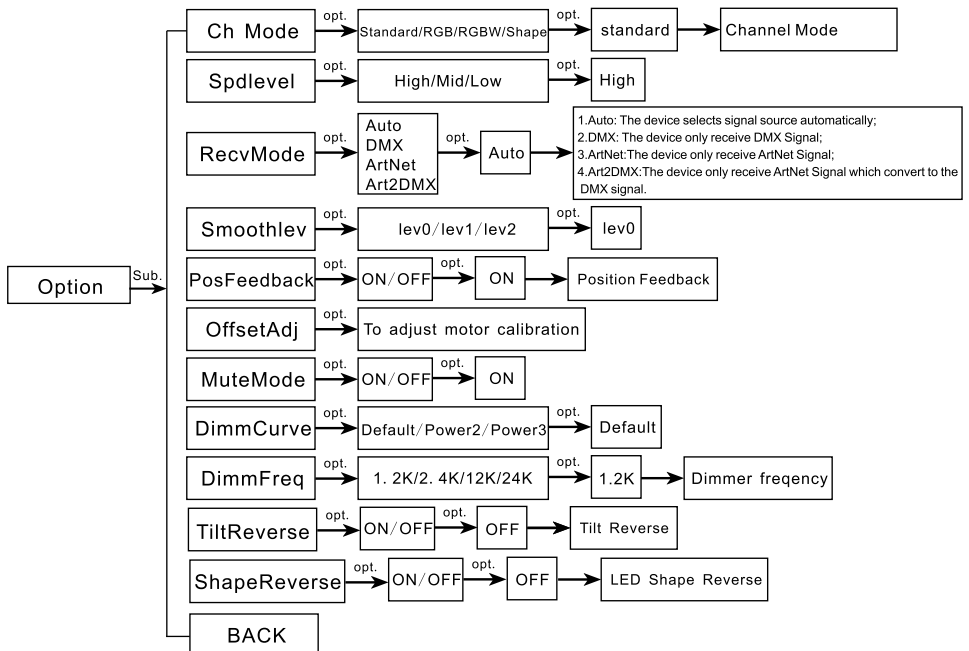
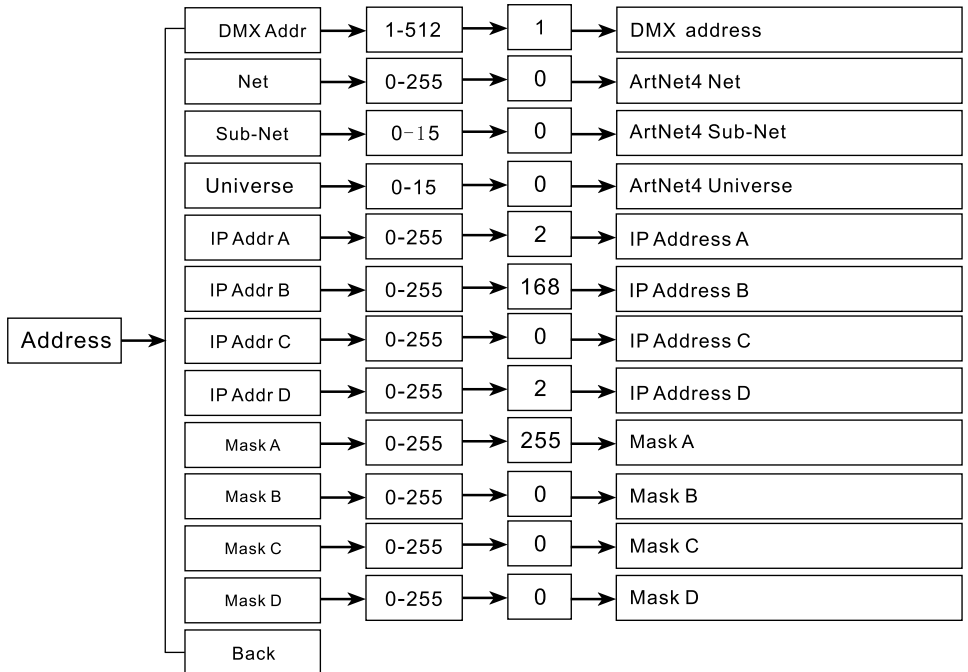


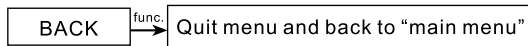
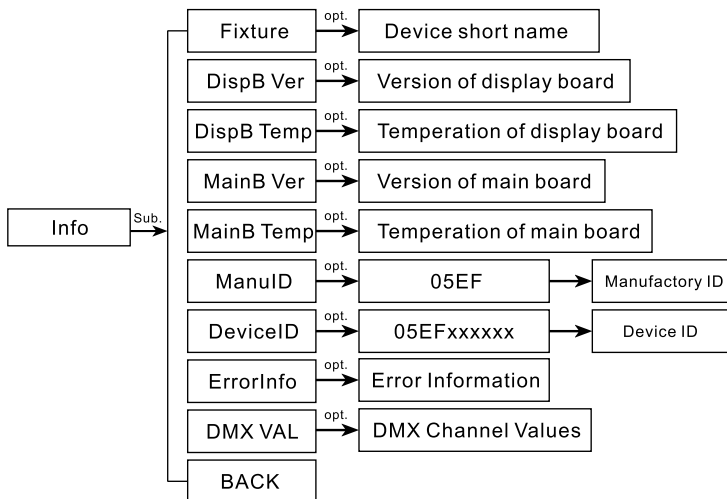
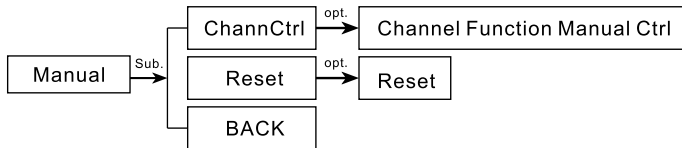
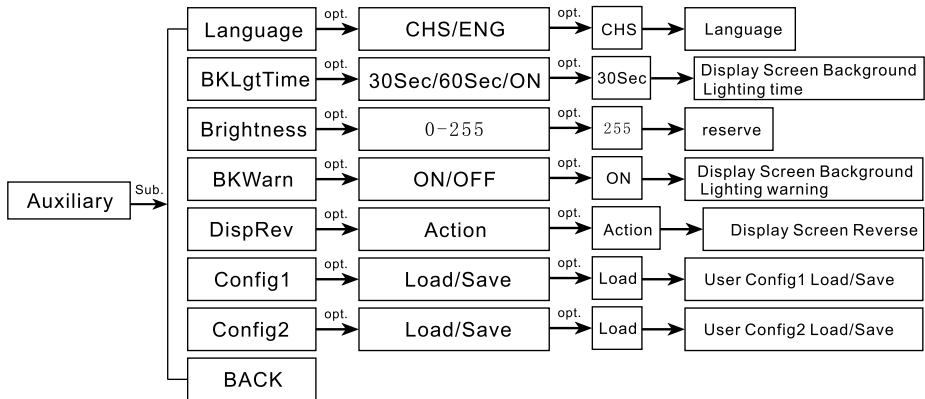
⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

- 1.Menu
- 2.Enter
- 3.Up
- 4.Down
- 5.Fuse
- 6.Power output
- 7.Power input
- 8.DMX output
- 9.Ethernet output
- 10.Ethernet input
- 11.DMX input

7.2 Display panel operational function detail

FINE 604/608 BATTEN





8. Technical Feature

◇LIGHT SOURCE

FINE 604 BATTEN: 4 pcs 60W RGBW 4 in 1 LEDs

FINE 608 BATTEN: 8 pcs 60W RGBW 4 in 1 LEDs

◇OPTICAL SYSTEM

Beam Angle: 5° to 50°

Glass light guide rod + PMMA high quality optical lens

The initial luminous flux and efficiency:

FINE 604 BATTEN: 2980 lm 14 lm/w

FINE 608 BATTEN: 6900 lm 16 lm/w

◇EFFECT EQUIPMENT

Each light source can be controlled individually

All-optical domain dimming, 65536 grade dimming accuracy

Fast Strobe: 1-25Hz

253 kinds of color macros and gradient effect.

41 built-in effects(FINE 604 BATTEN)

47 built-in effects(FINE 608 BATTEN)

◇MOVEMENT PARAMETER

Tilt 200°, Precision 0.94°/Step, Tilt Fine=0.0037°

◇CONTROL AND PROGRAMMING

Control channel: Stand(15) /RGB(39)/RGBW(47)/ Sharp(27)

Protocol: DMX512, RDM, SACN, Art-net.

DMX signal connection: 3-pin XLR in/out (5-pin for option), RJ45 internet interface in/out

Menu display: OLED display, resolution ratio: 128 x 64; Chinese and English version can be switched

Key operation mode, Support key acceleration function

USB power interface

◇**ELECTRONIC CONTROL TECHNOLOGY**

Menu or console controls lighting reset

0-100% dimmer

Constant current drive mode

Dimming curve setting

Temperature sensor detection, intelligent adjustment for light source power

DMX channel level monitoring

Fixture information query

Intelligent fan speed adjustment

The zoom system is divided into left and right modules. Each module can be controlled separately. (Except FINE 604 BATTEN)When there is no DMX signal in the zoom system, the fixture head will retract automatically

◇**POWER SUPPLY**

100-240V~, 50/60Hz

Switch Power supply

Input Power: 280W(FINE 604 BATTEN)

450W(FINE 608 BATTEN)

PF \geq 0.98

◇**WORKING TEMPERATURE**

Temperature: -10°C~40°C

Humidity: 50%-95%

◇**DIMENSION AND WEIGHT(FINE 604 BATTEN)**

Fixture Dimension: 480 mm × 120mm × 303 mm

Package Dimension: 1114mm × 586mm × 515mm (flight case)

Net Weight: 10kg

Gross Weight: 14.5Kg

◇**DIMENSION AND WEIGHT(FINE 608 BATTEN)**

Fixture Dimension: 960 mm × 120mm × 303 mm

Package Dimension: 1114mm × 586mm × 515mm (flight case)

Net Weight: 18kg

Gross Weight: 26.5kg

◇ **PACKAGE**

FINE 604: 8pcs/ flight case

FINE 608: 4pcs/ flight case

1pc/carton

◇ **INSTALLMENT**

Direction: Any

Hanging: Standard hanging

Safety: Safety cable

◇ **IP RATE**

IP 20

9. Control Channel

FINE 604 BATTEN

Stand mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Reserve	
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

RGB mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fastHz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fastHz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Reserve	
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

16	P1 Red	LED position 1 red tuning
17	P1 Green	LED position 1 Green tuning
18	P1 Blue	LED position 1 Blue tuning
19	P2 Red	LED position 2 red tuning
20	P2 Green	LED position 2 Green tuning
21	P2 Blue	LED position 2 Blue tuning
22	P3 Red	LED position 3 red tuning
23	P3 Green	LED position 3 Green tuning
24	P3 Blue	LED position 3 Blue tuning
25	P4 Red	LED position 4 red tuning
26	P4 Green	LED position 4 Green tuning
27	P4 Blue	LED position 4 Blue tuning

RGBW mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Reserve	

14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)
16	P1 Red	LED position 1 red tuning
17	P1 Green	LED position 1 Green tuning
18	P1 Blue	LED position 1 Blue tuning
19	P1 White	LED position 1 White tuning
20	P2 Red	LED position 2 red tuning
21	P2 Green	LED position 2 Green tuning
22	P2 Blue	LED position 2 Blue tuning
23	P2 White	LED position 2 White tuning
24	P3 Red	LED position 3 red tuning
25	P3 Green	LED position 3 Green tuning
26	P3 Blue	LED position 3 Blue tuning
27	P3 White	LED position 3 White tuning
28	P4 Red	LED position 4 red tuning
29	P4 Green	LED position 4 Green tuning
30	P4 Blue	LED position 4 Blue tuning
31	P4 White	LED position 4 White tuning

Shape mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Adjust
9	Dimmer Fine	0->255 Dimmer Fine Adjust
10	Tilt	Tilt Adjust
11	Tilt Fine	Tilt Fine Adjust
12	Zoom1	0->255 Zoom1 Tuning
13	Zoom2	0->255 Zoom2 Tuning
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

16	Shape Dimmer	0->255 ShapeDimmer Tuning From dark to lighting
17	Shape Select	0->7 NONE 8->47 Shape Select 48->255 All Shape Show
18	Shape Offset	0->15 Shape Forward Moving 16->31 Shape Backward Moving 32->47 Shape Bounce Moving 48->159 Reserve 160->255 static sub Shape (This Function will be effective when it has many sub Shape)
19	Shape Speed	0->7 Static Shape 8->255 Shape Speed, From slow to fast.
20	Shape Trans	0-15 NONE 16-255 Shape transition time(0s-4s)
21	Shape Strobe	0->3 OPEN 4->103 Pulse Strobe, from slow to fast 104->107 OPEN 108->207 Strobe, from slow to fast 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
22	Background Red	Background Red Tuning
23	Background Green	Background Green Tuning
24	Background Blue	Background Blue Tuning
25	Background White	Background White Tuning
26	Background Dimmer	Background Dimmer Tuning
27	Background Strobe	0->3 OPEN 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN

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Stand mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Zoom2	0->255 Zoom2 Tuning
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

RGB mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Zoom2	0->255 Zoom2 Tuning
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

16	P1 Red	LED position 1 red tuning
17	P1 Green	LED position 1 Green tuning
18	P1 Blue	LED position 1 Blue tuning
19	P2 Red	LED position 2 red tuning
20	P2 Green	LED position 2 Green tuning
21	P2 Blue	LED position 2 Blue tuning
22	P3 Red	LED position 3 red tuning
23	P3 Green	LED position 3 Green tuning
24	P3 Blue	LED position 3 Blue tuning
25	P4 Red	LED position 4 red tuning
26	P4 Green	LED position 4 Green tuning
27	P4 Blue	LED position 4 Blue tuning
28	P5 Red	LED position 5 red tuning
29	P5 Green	LED position 5 Green tuning
30	P5 Blue	LED position 5 Blue tuning
31	P6 Red	LED position 6 red tuning
32	P6 Green	LED position 6 Green tuning
33	P6 Blue	LED position 6 Blue tuning
34	P7 Red	LED position 7 red tuning
35	P7 Green	LED position 7 Green tuning
36	P7 Blue	LED position 7 Blue tuning
37	P8 Red	LED position 8 red tuning
38	P8 Green	LED position 8 Green tuning
39	P8 Blue	LED position 8 Blue tuning

RGBW mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fastHz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fastHz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Zoom2	0->255 Zoom2 Tuning
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

16	P1 Red	LED position 1 red tuning
17	P1 Green	LED position 1 Green tuning
18	P1 Blue	LED position 1 Blue tuning
19	P1 White	LED position 1 White tuning
20	P2 Red	LED position 2 red tuning
21	P2 Green	LED position 2 Green tuning
22	P2 Blue	LED position 2 Blue tuning
23	P2 White	LED position 2 White tuning
24	P3 Red	LED position 3 red tuning
25	P3 Green	LED position 3 Green tuning
26	P3 Blue	LED position 3 Blue tuning
27	P3 White	LED position 3 White tuning
28	P4 Red	LED position 4 red tuning
29	P4 Green	LED position 4 Green tuning
30	P4 Blue	LED position 4 Blue tuning
31	P4 White	LED position 4 White tuning
32	P5 Red	LED position 5 red tuning
33	P5 Green	LED position 5 Green tuning
34	P5 Blue	LED position 5 Blue tuning
35	P5 White	LED position 5 White tuning
36	P6 Red	LED position 6 red tuning
37	P6 Green	LED position 6 Green tuning
38	P6 Blue	LED position 6 Blue tuning
39	P6 White	LED position 6 White tuning
40	P7 Red	LED position 7 red tuning
41	P7 Green	LED position 7 Green tuning
42	P7 Blue	LED position 7 Blue tuning
43	P7 White	LED position 7 White tuning
44	P8 Red	LED position 8 red tuning
45	P8 Green	LED position 8 Green tuning
46	P8 Blue	LED position 8 Blue tuning
47	P8 White	LED position 8 White tuning

Shape mode

ID	Channelfunction	Function
1	Red	Red Tuning
2	Green	Green Tuning
3	Blue	Blue Tuning
4	White	White Tuning
5	Color Temperature	0->5 Close 6->11 2700K 12->16 3200K 17->21 4300K 22->26 5600K 27->31 6500K 32->40 8000K 41->255 2700-8000K
6	Color Macro	0->2 Close 3->9 7 RainBow Effects 10->255 Color Macro
7	Strobe	0->3 CLOSED 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
8	Dimmer	0->255 Dimmer Tuning
9	Dimmer Fine	0->255 Dimmer Fine Tuning
10	Tilt	Tilt Tuning
11	Tilt Fine	Tilt Fine Tuning
12	Zoom1	0->255 Zoom1 Tuning
13	Zoom2	0->255 Zoom2 Tuning
14	Reset	0->25 NONE 26->76 ZOOM Reset 77->127 Pan/Tilt Reset 128->255 All Reset. (the function will be active when you change value and keep this for more than 5 second.)
15	FunctionCtrl	0->3 NONE 4->7 LED Pixel Reverse Off 8->11 LED Pixel Reverse On 12->15 Tilt Reverse Off 16->19 Tilt Reverse On 20->255 NONE (the function will be active when you change value and keep this for more than 5 second.)

16	Shape Dimmer	0->255 ShapeDimmer Tuning From dark to lighting
17	Shape Select	0->7 NONE 8->54 Shape Select 55->255 All Shape Show
18	Shape Offset	0->15 Shape Forward Moving 16->31 Shape Backward Moving 32->47 Shape Bounce Moving 48->159 Reserve 160->255 static sub Shape (This Function will be effective when it has many sub Shape)
19	Shape Speed	0->7 Static Shape 8->255 Shape Speed, From slow to fast.
20	Shape Trans	0-15 NONE 16-255 Shape transition time(0s-4s)
21	Shape Strobe	0->3 OPEN 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN
22	Background Red	Background Red Tuning
23	Background Green	Background Green Tuning
24	Background Blue	Background Blue Tuning
25	Background White	Background White Tuning
26	Background Dimmer	Background Dimmer Tuning
27	Background Strobe	0->3 OPEN 4->103 Pulse Strobe, from slow to fast, 1Hz-25Hz 104->107 OPEN 108->207 Strobe, from slow to fast, 1Hz-25Hz 208->212 OPEN 213->251 Random Strobe from slow to fast 252->255 OPEN

10.Parts Code

Item	Specification	P/N
Opocoupler board		330712100042
Hall board		330711100046
Power supply(604)	Vin:90-264Vac; Out:29±0. 5V; Power: 350W	330000300005
Power supply(608)	Vin:90-264Vac; Out:28Vdc/19.6A; Power: 550W	330001200073
DMX in board		330712100035
DMX out board		330712100036
LEDs board		330712100033
Driver board		330712100034
Power signal transfer board		330712100040
Display board		330712100039
Timing belt		350201000560
Fan(Small)		150101000099
Fan(Big)		150101000100
Tilt motor	FINE 604 BATTEN	140103000037
	FINE 608 BATTEN	140103000023
Focus motor		140102000239
Portable battery transfer board		330395100066
Switch controlle board		330713100099

11. Routine Maintenance

Cleaning and maintenance

This fixture requires routine cleaning. The service life depends on the operating environment heavily. Please kindly contact GUANG ZHOU CHAI YI LIGHT CO., LTD for more maintenance information not included in this user's manual.

Warning: Please unplug the fixture before you open any covers.

Cleaning

Optical components should be cleaned carefully and lightly. Coating face is easily damaged, do not use harmful solvent so as to avoid damage to plastic parts or coating parts.

Cleaning optical components

1. Switch off the fixture and keep it cool completely, then open the cover.
2. Clean the floats by dust collector or compressed.
3. Use cotton paper without smell or cotton cloth soaked with the water, distilled water to wipe the granular thing, don't wipe the surface, float things should be blown away by the pressure gas.
4. Use the cotton cloth or cotton paper without smell soaked with isopropyl to remove the smoke and other residues. A commercial glass cleaner may be used, but residues must be removed with distilled water. Clean with a slow circular motion from center to edge. Dry with a clean, soft and lint-free cloth or compressed air.

Cleaning the focusing spindle and other motor parts

1. Clean the focusing spindle and other motor parts with cotton cloth soaked with anhydrous alcohol.
2. Apply proper amount of lubricating oil to the rotation position of the focusing spindle and other motor parts.
3. It is recommended to clean and maintain the above bearing rotating parts regularly.

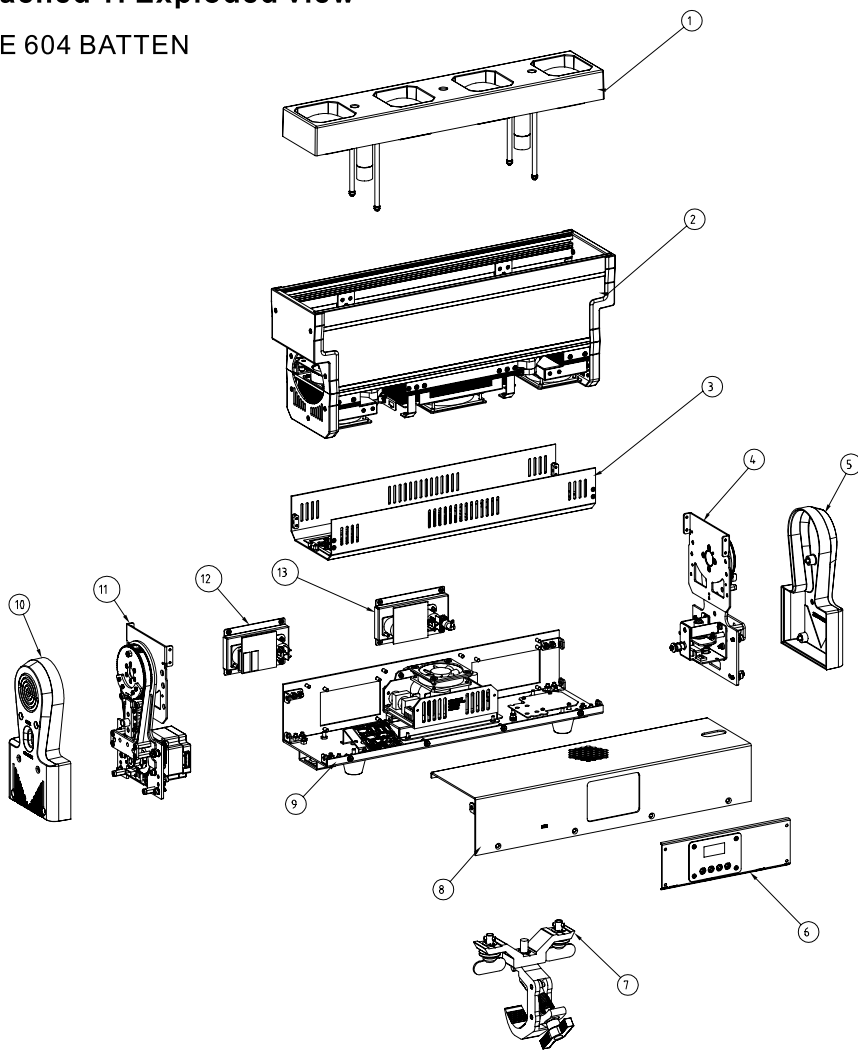
Cleaning fans

Remove dust from the fans with a soft brush, cotton paper, vacuum, or compressed air.

Notice: Excessive dust, smoke fluid and particulate buildup will degrade performance and cause overheating or damage to the fixture that is not covered by the warranty.

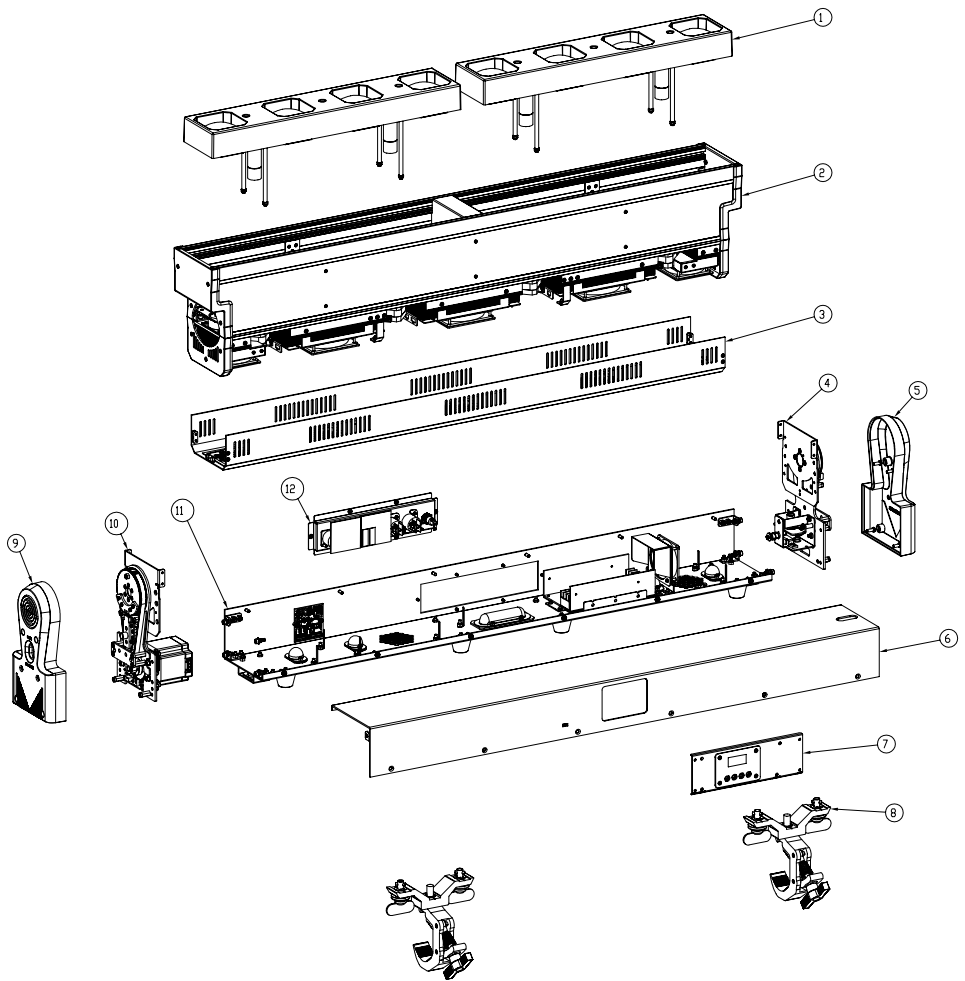
Attached 1: Exploded view

FINE 604 BATTEN



No.	Item	No.	Item	No.	Item
1	Lens assembly	2	Head assembly	3	Back cover
4	Right arm assembly	5	Right arm cover	6	Display assembly
7	Hook assembly	8	Display board frame	9	Base assembly
10	Left arm cover	11	Left arm assembly	12	Socket assembly for output
13	Socket assembly for input				

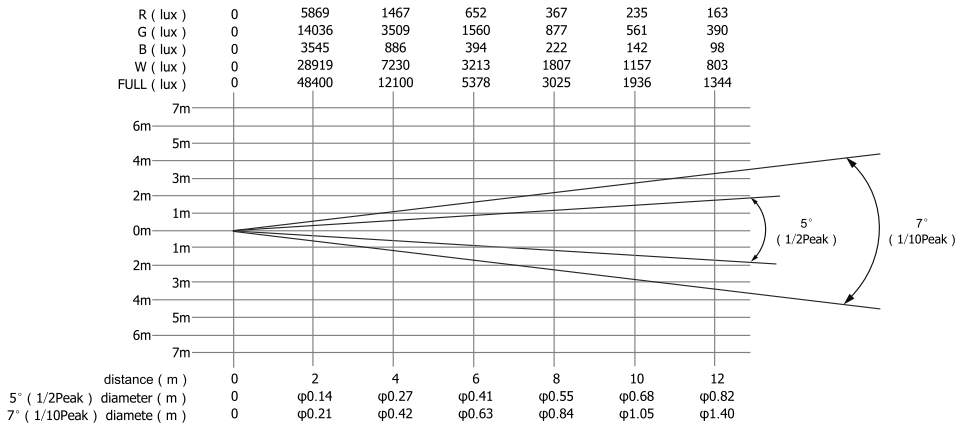
FINE 608 BATTEN



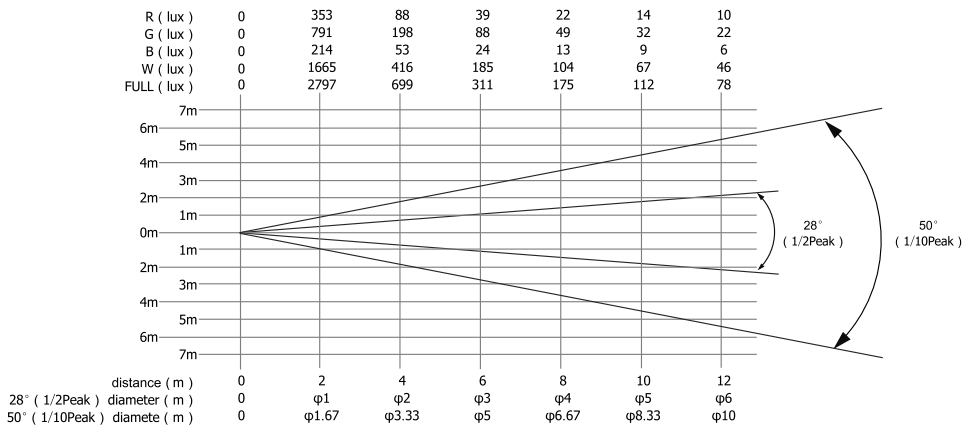
No.	Item	No.	Item	No.	Item
1	Lens assembly	2	Head assembly	3	Back cover
4	Right arm assembly	5	Right arm cover	6	Display board frame
7	Display assembly	8	Hook assembly	9	Left arm cover
10	Left arm assembly	11	Base assembly	12	Socket assembly

Attached2: Photometric diagram

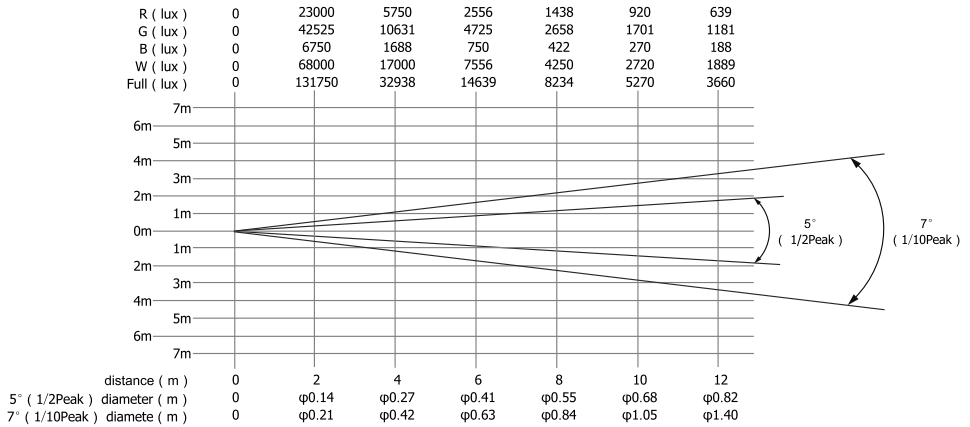
● FINE 604 BATTEN(Min Angle)



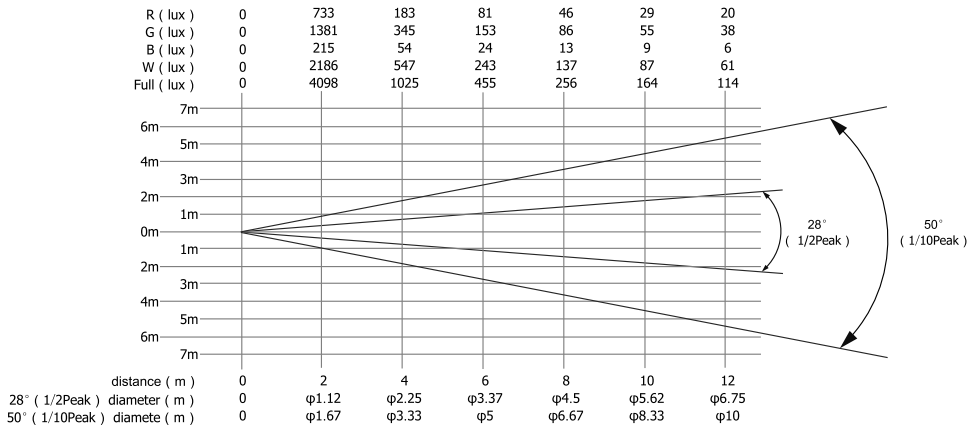
● FINE 604 BATTEN(Max Angle)



● FINE 608 BATTEN(Min Angle)

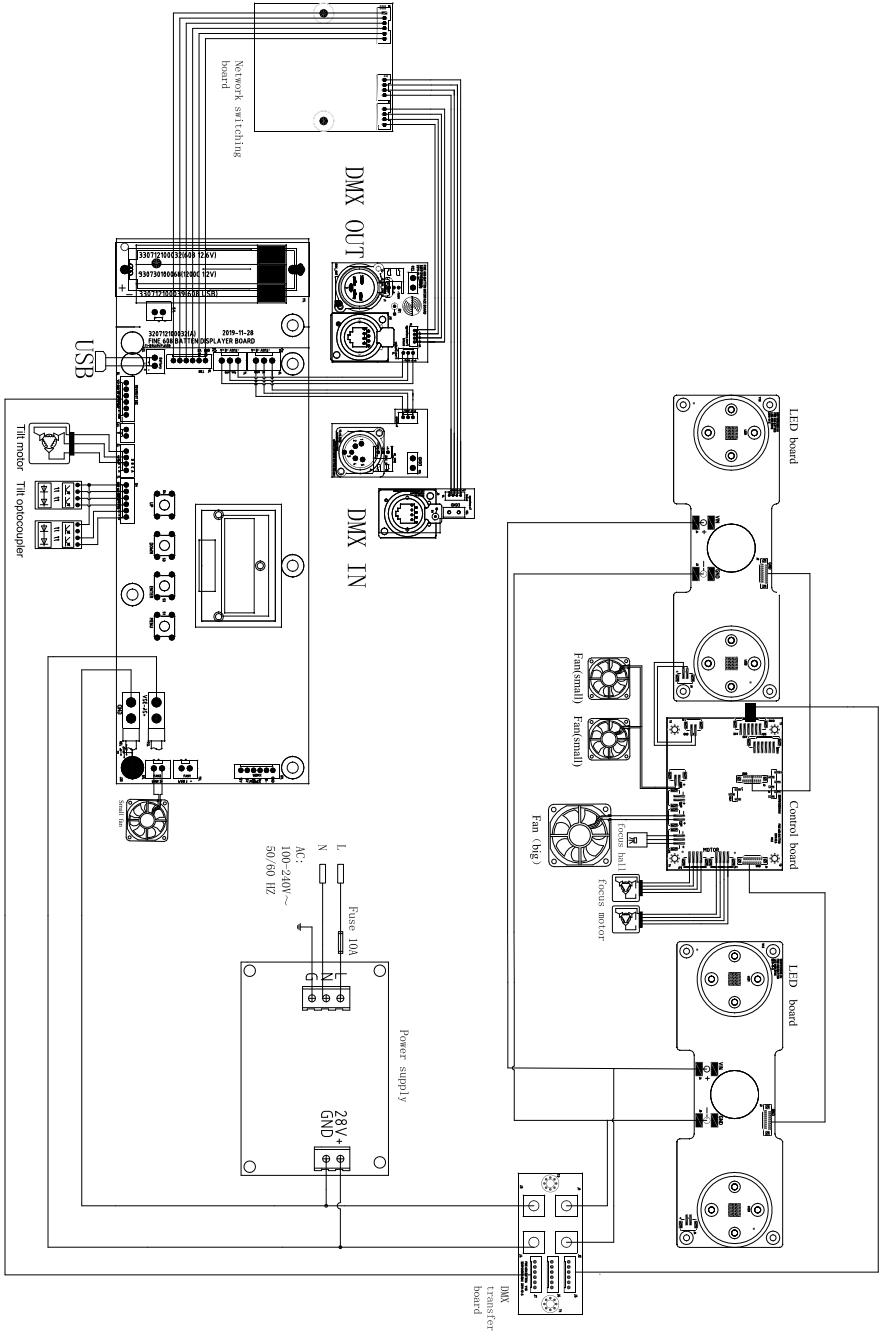


● FINE 608 BATTEN(Min Angle)



Attached3: Wiring diagram

FINE 604 BATTEN



FINE 608 BATTEN

