Introduction

Thanks for purchasing FINE 850C STROBE LED light, a newly launched product by FINE ART. Its case uses aluminum, which makes it look nice. It is up to CE Standard and can be used with the international DMX512 control mode.

With the innovative design of optics and circuits, the power consumption of FINE 850C is 20% less than the conventional ones. It can be arranged and create special strobe effects. The led strobe light is condense, low-power, and lightweight. The u-nique cooling system guarantees the life and the low-noise.

The light has the following features: quick-response, anti-shock, Impact resistant, good cooling, high IP grade, long life span (over 30,000hrs), no radiation, high efficiency and low power consumption and so on. It is truly an environment-friendly product.

The light is easy for installation and can be widely used in many venues, such as stadium, stage, TV station, conference center, professional theater, park, ballroom, bar. It can be also used for illumination purpose in fixed stages, small/grand shows, public environment and so on.

Declaration

P/N:390730000006 Edition: B

Contents

Attached 1: FINE 850C STROBE exploded drawing
Attached 2: FINE 850C STROBE wiring diagram

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. not touch. Do not touch.

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

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

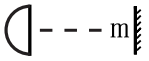
Luminaires not suitable for direct mounting on normally flammable surfaces (suitableonly for mountingon non-combustible surfaces)

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

1.Safety information

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

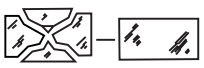
After receiving the fixture, please unpack and check if there is any damage due to transportation. If any obvious damage or flaw is found, do not put it into use and contact the distributor or manufacturer as soon as possible.

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

Protection against over heat
FINE 850C STROBE LED is 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.

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

Shields 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

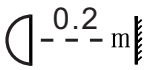
All electrical connections must be performed by a qualified person with technical certificate.
Make sure that the mains power supply you use is up to local construction and electronic code regulation, the over-load protection reliable earthing is essential.
Each fixture must be grounded correctly, and 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

Please do not install the fixture onto combustible surface.
Do not attempt to bypass the thermostat switch or fuse.
Replace defective fuses with specified ratings only.

Keep flammable materials far away from the fixture. Minimum distance from the flammable materials is 0.5m.
Under the steady working state, the max temperature of exterior surface of FINE 850C STROBE LED is 65℃ , Please don't touch the moving head during movement.

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

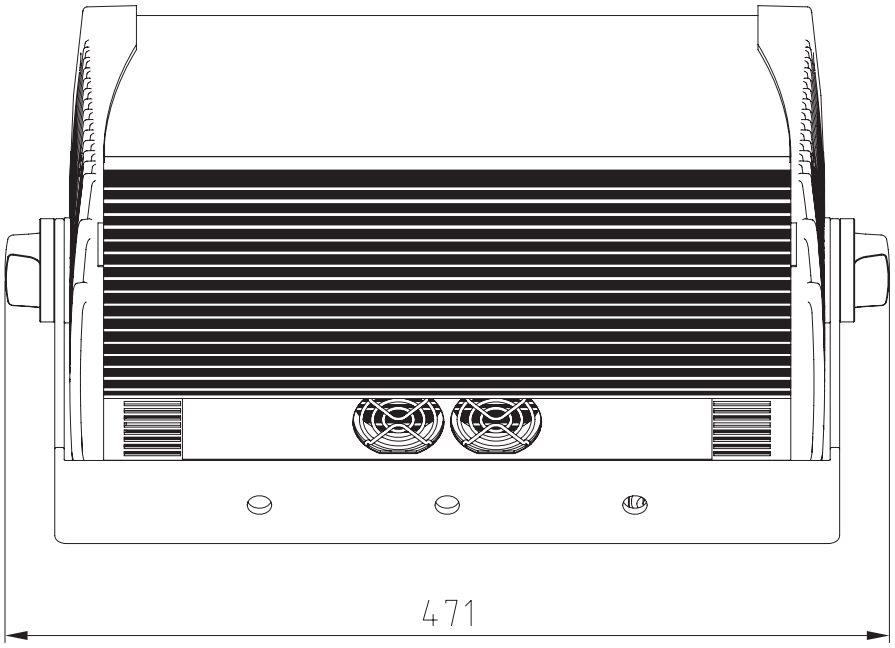


Do not place any filter or other object onto the optical lens.
Ensure a minimun clearance of 0.1m around the cooling fans and vertilation
Do not revise the fixture or install any parts not from Guangzhou CHAI YI LIGHT Co.Ltd.

2.Product introduct

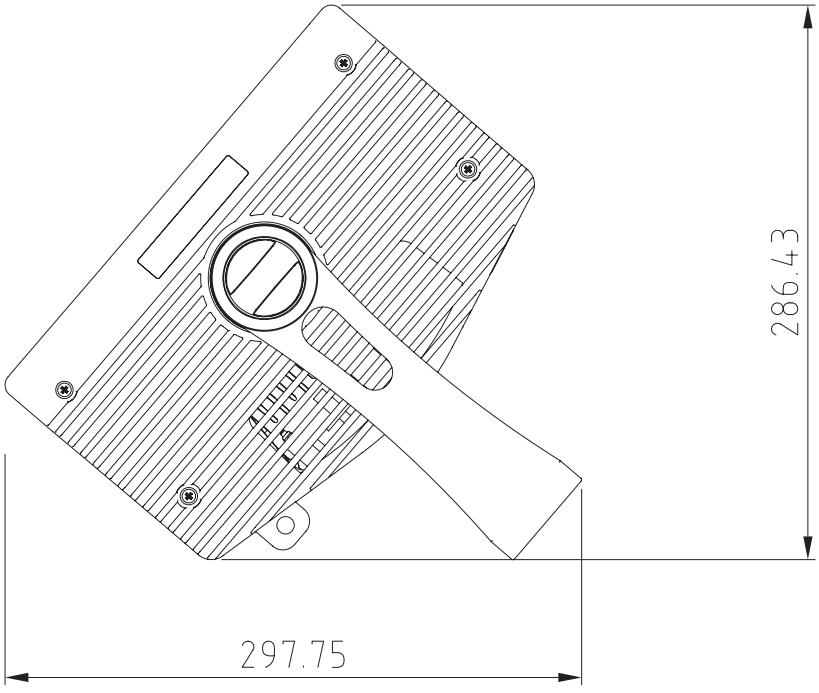
2.1 FINE 850C Dimensions

● Front view



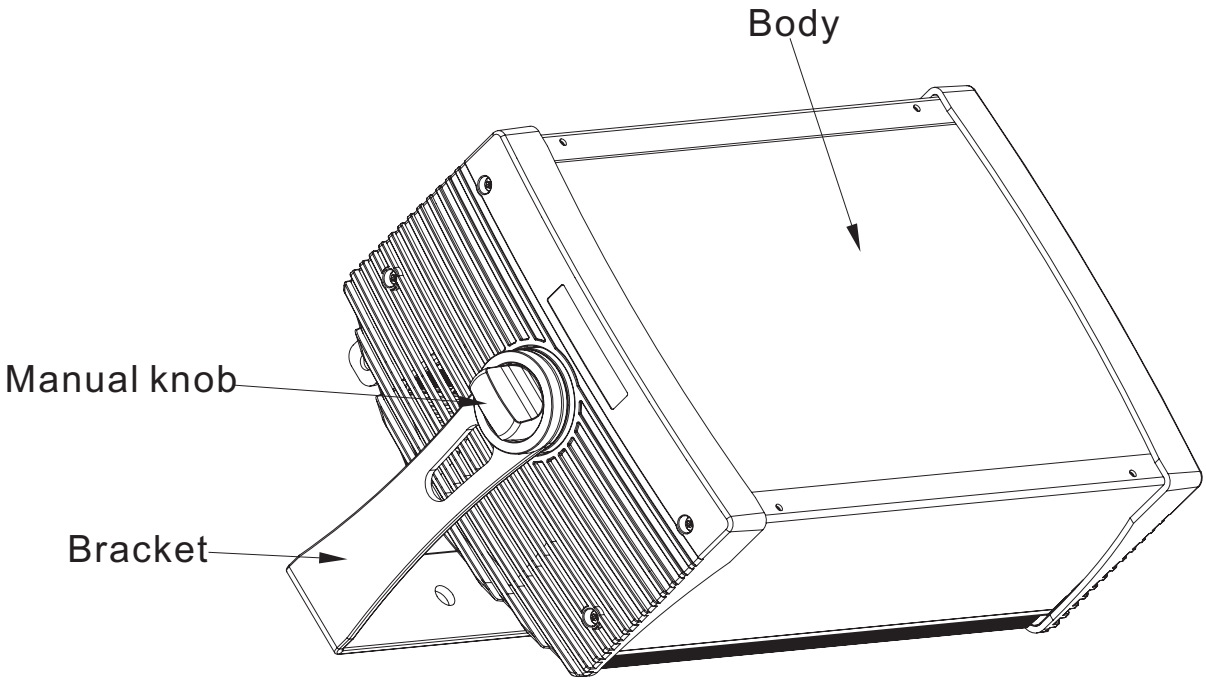
Fig(2.1-1)

●Side view

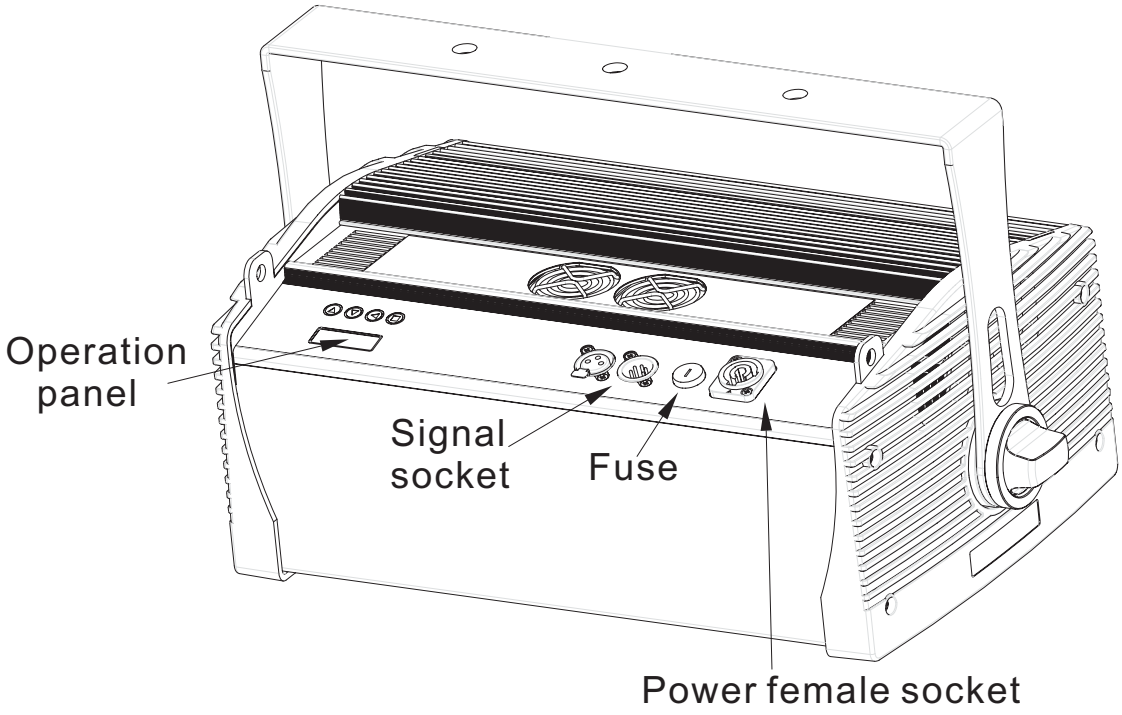


Fig(2.1-2)

2.2 Product Introduction



Fig(2.2-1)



Fig(2.2-2)

3.Package&delivery

3.1 Included Items

FINE 850C is packed with flight case .One single standard flight case carries 8 fixtures (optionally).Included items listed below

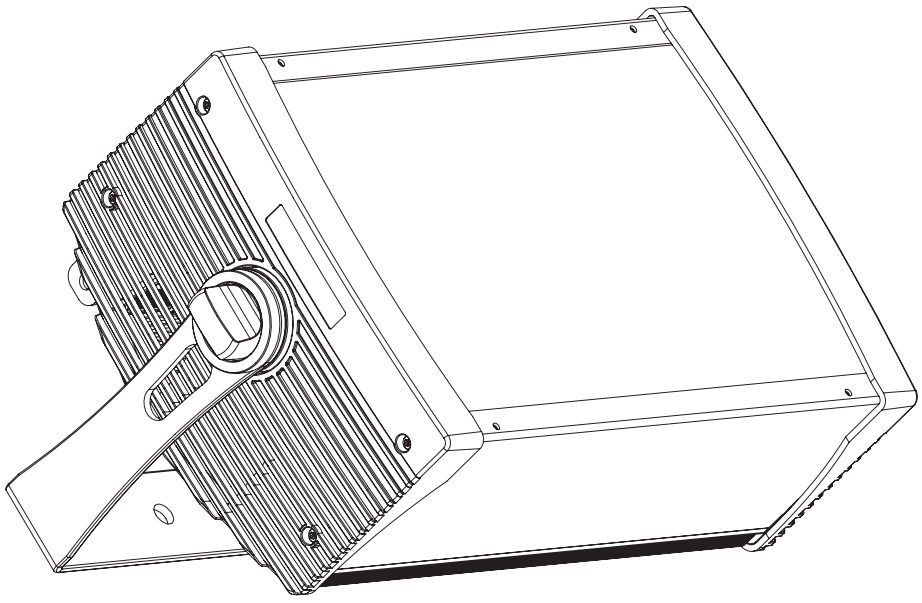
Accessories	FINE 850W	UNIT
User Manual	1	PCS
Warranty Card	1	PCS
Suspension Fasteners	8	SET
Signal Cable	8	PCS
Safety Wire	8	PCS
Power cord	8	PCS
plug(female)	8	PCS

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.

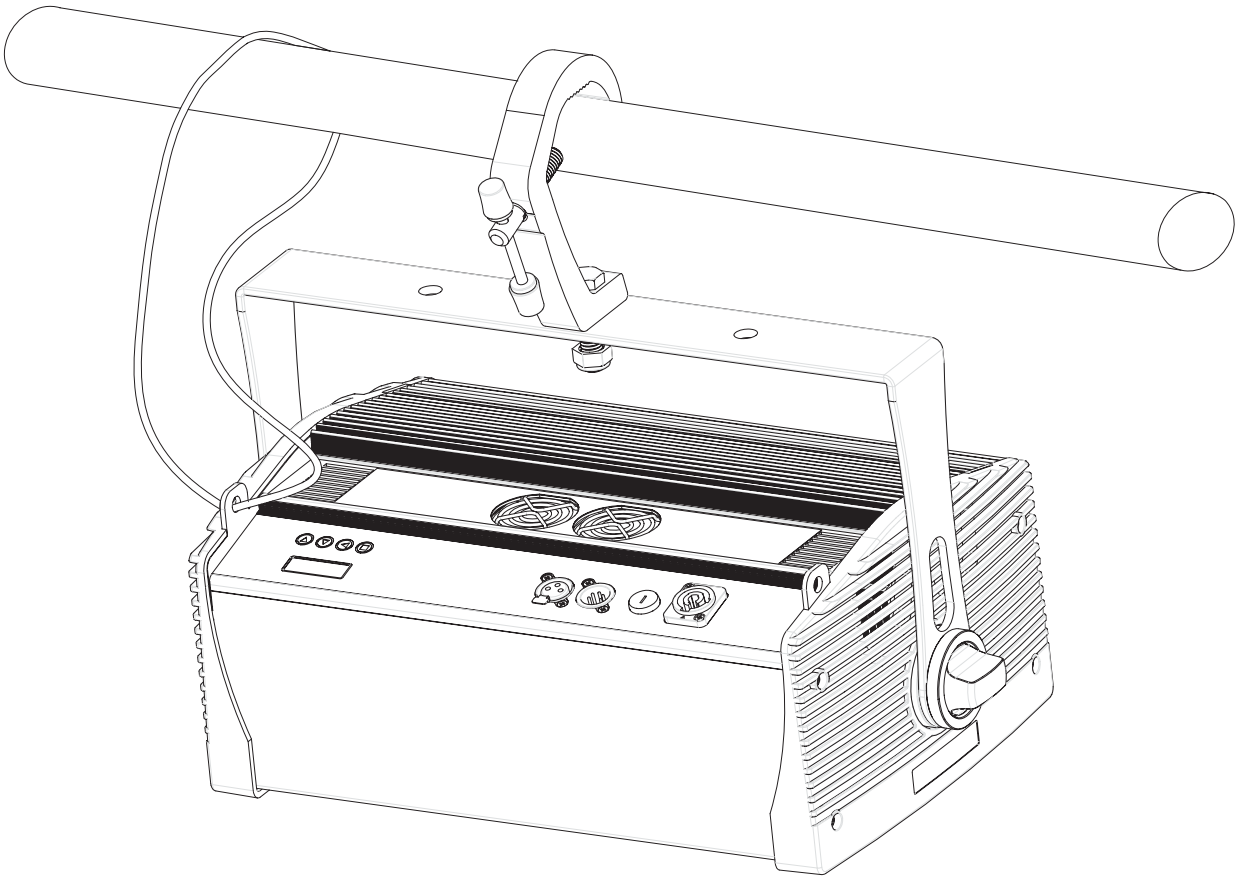
The fixture working ambient temperature are between -10℃-40℃, When ambient temperature over the range, don't operate the fixture. When the fixture are in installation, teardown, remove or servicing, don’t stand in under the fixture. Operator must be insure the fixture are safely connected. The input power supply must match the specific type demanded by the fixture.Make sure the installation check annually by professional person.

1.On the ground



Fig(4.1-1)

2.Hang on the truss with clamps



Warning Please add one safety rope after the fixture is hung on the truss.

5.Data link

5.1 DMX512 link

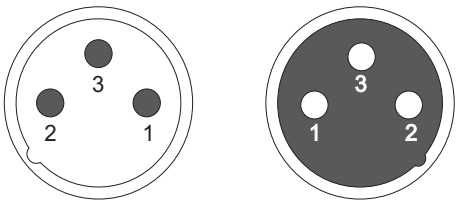
Note: The signal cable is type X connection.

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.

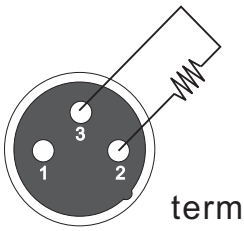
3-pin XLR connecters are provided for fixture DMX input and output.

Pin 1 is for earthing, pin 2 is for minus signals, and pin 3 is for plus signals.

To prevent and absorb the reflection and interference of the signals, each data link must be ended by a respective terminator.



3 pin XLR socket



terminator

DMX 512

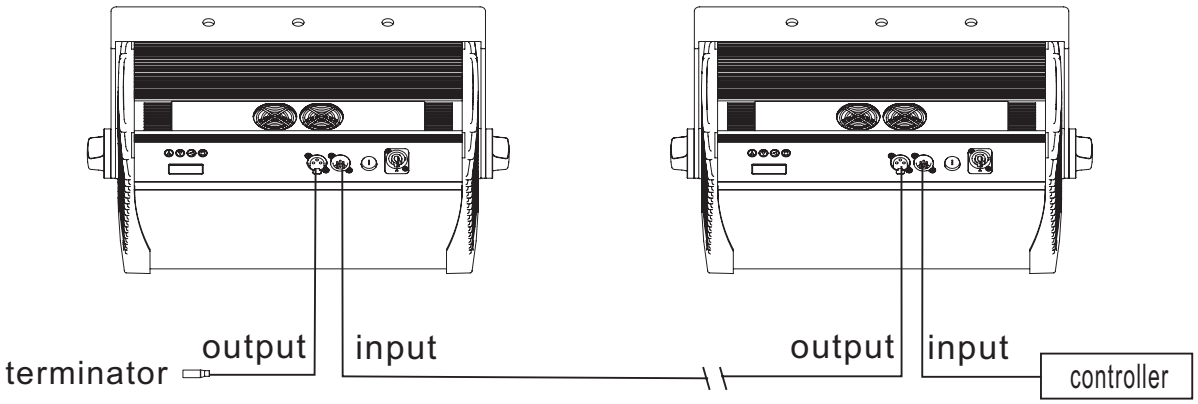
1	⏚ (shielded wire)	GND/OV
2	red	signal(-)
3	white	signal (+)

Terminator specification:
a 120Ωresistor with a power of 0.25w, solderd between pin 2 and pin 3 at the end of respective data link.

Fig(5.1-1)

Connect the 3-pin output of a lighting controller to the 3-pin input of a first fixture on the link, then connect the 3-pin output of the said first fixture to the 3-pin input of a second fixture. Similarly, repeat the above connection step and end the data link with a plug-in terminator. Shown as Fig. 5.1-2 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.



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 DMX512 signal amplifier instead, if necessary.
3.Use only shielded-pair cables, and standard microphone cable is not reliable for long-distance data transfer.

6.AC

6.1 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 manu-facturer, his service agent or similarly qualified person.

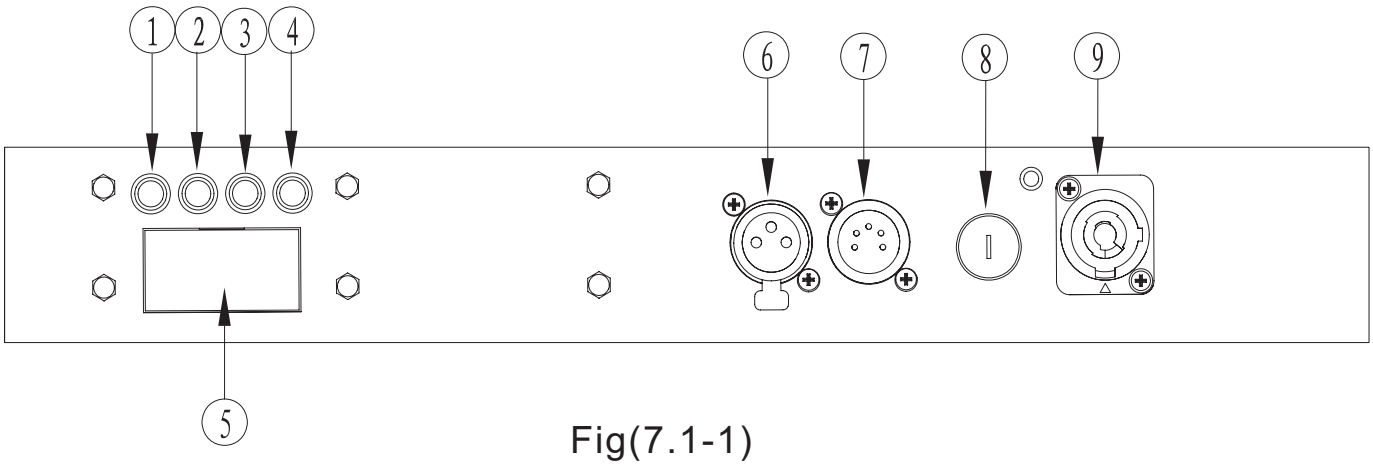
The person must have the relevant qualification to connect the power supply. The AC power voltage shall be suitable to the lamp provided with over-loading or cree page protection.Connecting the equipment to the power supply, do not connect to silicon boxsystem, or else, it will destroy the equipment. The fixture is provided withstandard 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 consultant with the experienced electrician.

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

Fig(6.1-1)

7.Control Panel

7.1 Control Panel Introduction



Fig(7.1-1)

1. Menu
2. Enter
3. up
4. Down
5. Display
6. DMX out
7. DMX in
8. Fuse
9. Power in

7.2 Display panel operational function detail

FINE850C STROBE Menu			
ID	1-512		
Dimmer	Red	0-255	Red
	Green	0-255	Green
	Blue	0-255	Blue
	White	0-255	White
	REST		Restore
	MODE	DIRE	Direct channel mode
		HSI	HSI channel mode
	FAN	Power	fast fan speed
		Live	automatism fan speed
		Stiodio	low fan speed
	CURV	OFF	trun-off dimmer cure
		CV1	dimmer cure1

8.Technical Feature

8.1 Production feature explanation

●Optics:
Light Source：5Wx176pcs RGBW four colors PHILIPS LED
Life pan:≥50000 hours

●Electrical:
Power Supply: AC100-240V ~, 50/60Hz
Input Power (max.): 1000W
Rated Current: 3.7A

●Electronic control technology
Protocol: DMX512
Channel Mode: 2/7/8
Control Panel: LED display+ button
Strobe speed:0. 29-0. 25HZ

●Physical:
Product Dimension:471mmX169mmX263mm
with supporting plate:471mmX263mmX262mm
Package Dimension:1050mmX500mmX750mm
Net weight:8kg
Gross weight:88kg

●Package:
Flight case：8pcs/flight case

●Installation:
Direction：0-360
Hang:standard hang
Security:Add one safety rope after the fixture is hung on the thuss

●Fixture structure:
Extruded section cover

●Work enviroment:
Temperature:-10-45℃
Humidity:5%-95%

●IP Rate:
IP20

9.Control Channel

9.1 DMX channel

Channel mode	DMX	Function
DIRE	Value	
1		RED
	0-255	Red colour linearly increases from no-light to maximum intensity
2		GREEN
	0-255	Green colour linearly increases from no-light to maximum intersity
3		BLUE
	0-255	Blue colour linearly increases from no-light to maximum intersity
4		WHITE
	0-255	White colour linearly increases from no-light to maximum intersity
5		INTENSITY
	0-255	Light output linearly increases form off to maximum brightness
6		DURATION
	0-255	Light time (versus dark time)linearly increases
		from shorter time (2.5msec) to longer time (650msec)
		See details in a following dedicated table
		IMPORTANT:
		Duration Time must be lower than Rate TimeA(Period)
		If Duration Time is equal or greater than Rate Time (Period)
		the light is continuously on.
7		RATE
	0-5	Light OFF
	6-255	Flashing at linearly variable frequency
		from low:(~0.3 flashes/sec or 1 flash every period of 3.5msec)
		to high (25 flashes/sec or 1 flash every period of 40msec)
		See details in a following dedicated table.

Channel mode	DMX	Function
HSI	Value	
1		HUE
	0-255	HUE linearly increases from no-light to maximum intensity
2		SATURATION
	0-255	SATURATION linearly increases from no-light to maximum intersity
3		INTENSITY
	0-255	Light output linearly increases form off to maximum brightness
4		DURATION
	0-255	Light time (versus dark time)linearly increases
		from shorter time (2.5msec) to longer time (650msec)
		See details in a following dedicated table
		IMPORTANT:
		Duration Time must be lower than Rate TimeA(Period) for flashing.
		If Duration Time is equal or greater than Rate Time (Period)
		the light is continuously on.
5		RATE
	0-5	Light OFF
	6-255	Flashing at linearly variable frequency
		from low:(~0.3 flashes/sec or 1 flash every period of 3.5msec)
		to high (25 flashes/sec or 1 flash every period of 40msec)
		See details in a following dedicated table.

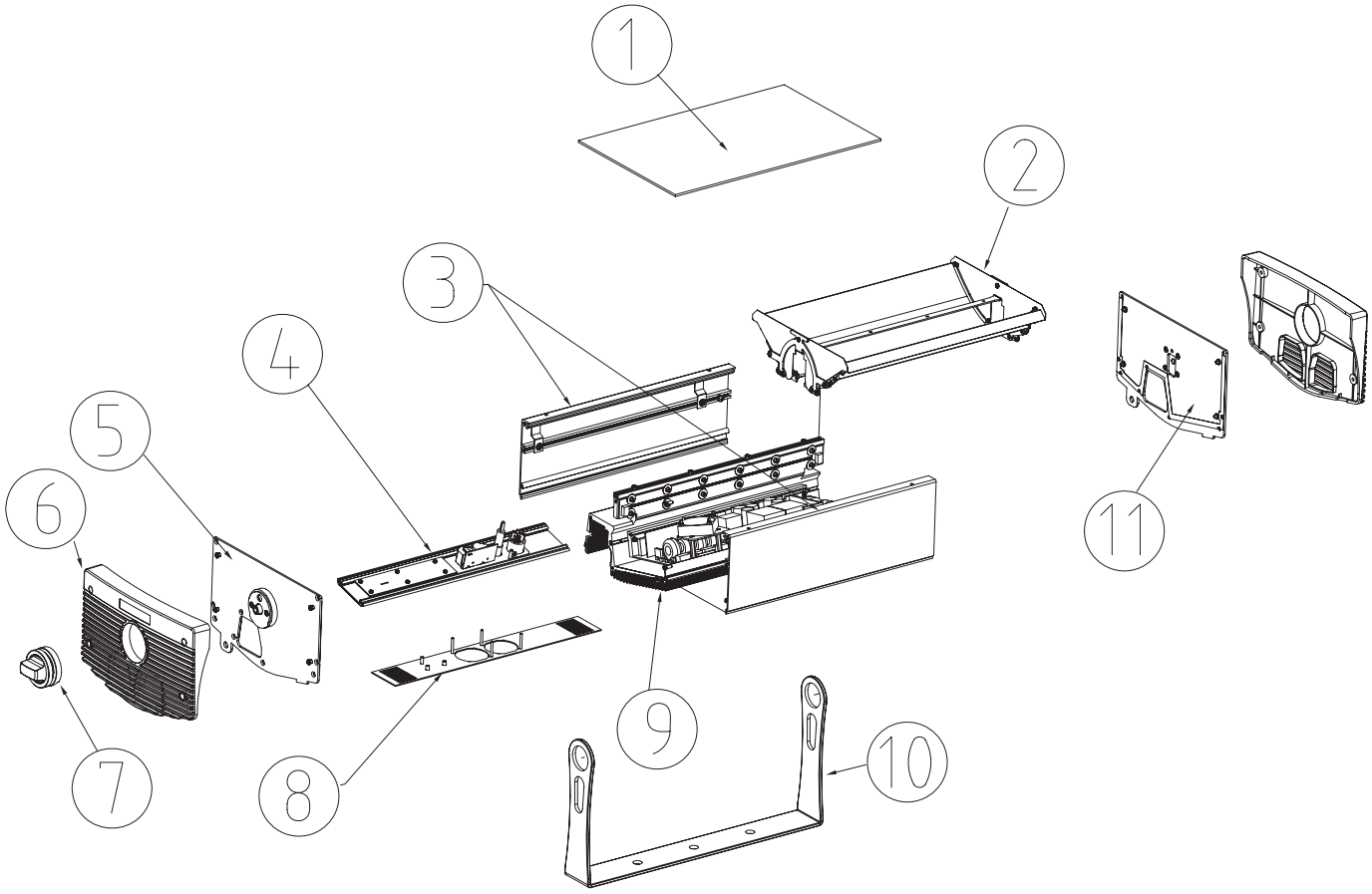
10.Parts Code

10.1 Parts ordering code

NO.	Item*	Specification	Ordering P/N
1	light-passing board	—	350601000069
2	LED board	—	330730100010
3	Fan switching board	—	330730100009
4	strobe display board	—	330730100008
5	three-pin DMX board	—	330720100015

*Name: refer to the names in the fixture exploded view.

Attached 1: FINE 850C STROBE Fixture exploded view



NO.	Item*	NO.	Item*
1	light-passing board	7	knob screw
2	reflector module	8	Fan fixed board module
3	lateral plate sectional bar module	9	aluminium extruded sections
4	display board module	10	fixture bracket
5	right cover sheet metal component	11	left cover sheet metal component module
6	plastic cover		

Attached2: FINE 850C STROBE wiring diagram