

Introduction

Thanks for purchasing FINE 550 BSW. FINE 550 BSW integrates the functions of beam, spot and wash 3 in 1, featuring high-light efficiency, long life span and strong penetration using 550W HID lamp and wide beam diameter(\varnothing 169mm).

FINE 550 BSW: 3 groups of lens run separately to ensure good image quality. High times zoom (1:16) is another extraordinary performance. High speed drive realizes fast switch of the beam, spot and wash function. Modular design makes easier and reliable installment, use and maintenance. Small volume, light weight, multi-functions are the outstanding characteristics for this fixture. Equipped with rich color system (CMY + CTO + independent color wheel with 13 colors + white), changeable gobo (1 rotating gobo wheel + 1 fixed gobo wheel) and rich effects (frost, prism, gradient lens, animation wheel), this multi-functional lighting is suitable for all kinds of medium and high class performance places and it is the most impressing vision fixture. The advanced thermal system design ensures that all subsystems inside the fixture are within a reasonable operating temperature range, which can extend the service life and improve the reliability.

FINE 550 BSW moving head is widely used in TV studios, arena, disco room, dancing hall, night clubs, large performance venues, etc.

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. CAIYI reserves all copyrights. To obtain the latest information about software update, hardware and other files, please visit CAIYI online website.

P/N:390397000103 Edition: A

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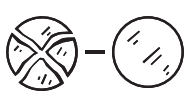
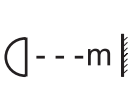
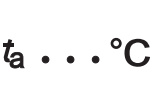
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Attached 1: Fixture exploded drawing

Attached 2: FINE 550 BSW Light output and beam angle range

Attached 3: FINE 550 BSW 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 (suitable only for mounting on 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

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/electrical shock hazards, ultraviolet radiation, lamp shattering or 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 fixture is intended for indoor application, 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

Shields, lenses and ultraviolet screens must be replaced if they have become visible damaged to such an extent that their effectiveness is impaired. Replace the lamp immediately if it becomes visually deformed, damaged or in any way defected.



Protection against injury due to falls

Do not lift or carry the fixture alone. 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 ultraviolet radiation

Prolonged exposure to an unshielded discharged lamp can cause eye and skin burns. Do not stare directly into the light output. Never look at an exposed lamp while it is lit. Never operate the fixture with missing or damaged lenses and/or covers. Change the damaged head lens, shields or covers immediately.



Protection against electrical shock

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

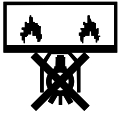


Make sure that the mains power supply you use is up to local construction and electronic code regulation, the over-load protection reliable earthing is essential.

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

Disconnect the fixture from AC power before removing or installing any cover or part, including the lamp and fuses, and when not in use.

Do not expose the fixture to rain or moisture.



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 is 100°C, Please don't touch the moving head during movement.



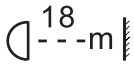
The minimum distance between fixture and the lighted objects is 18m.

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

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

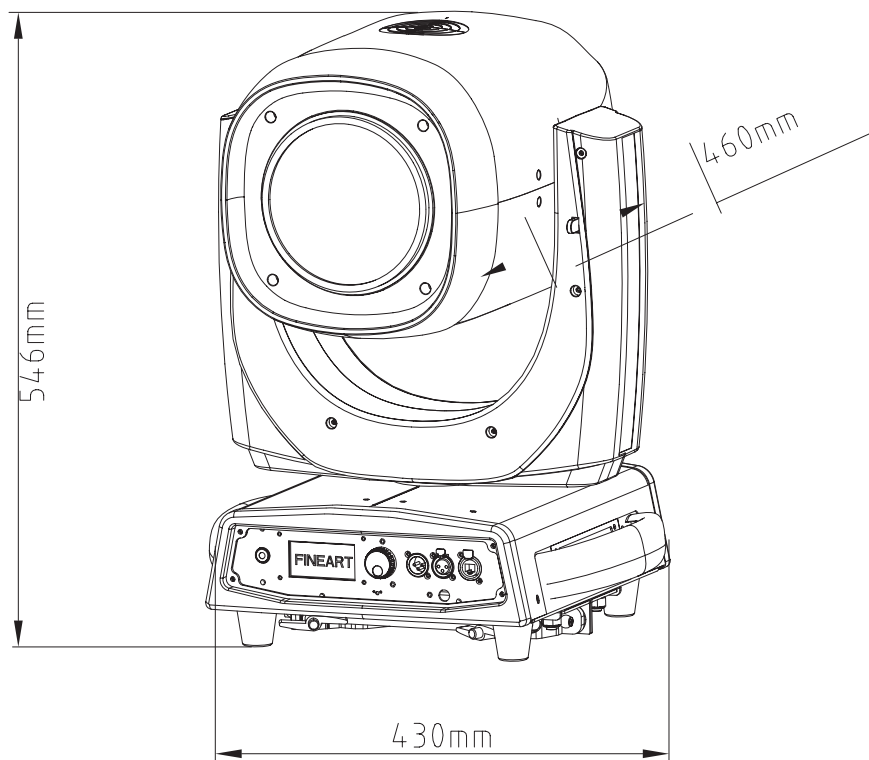
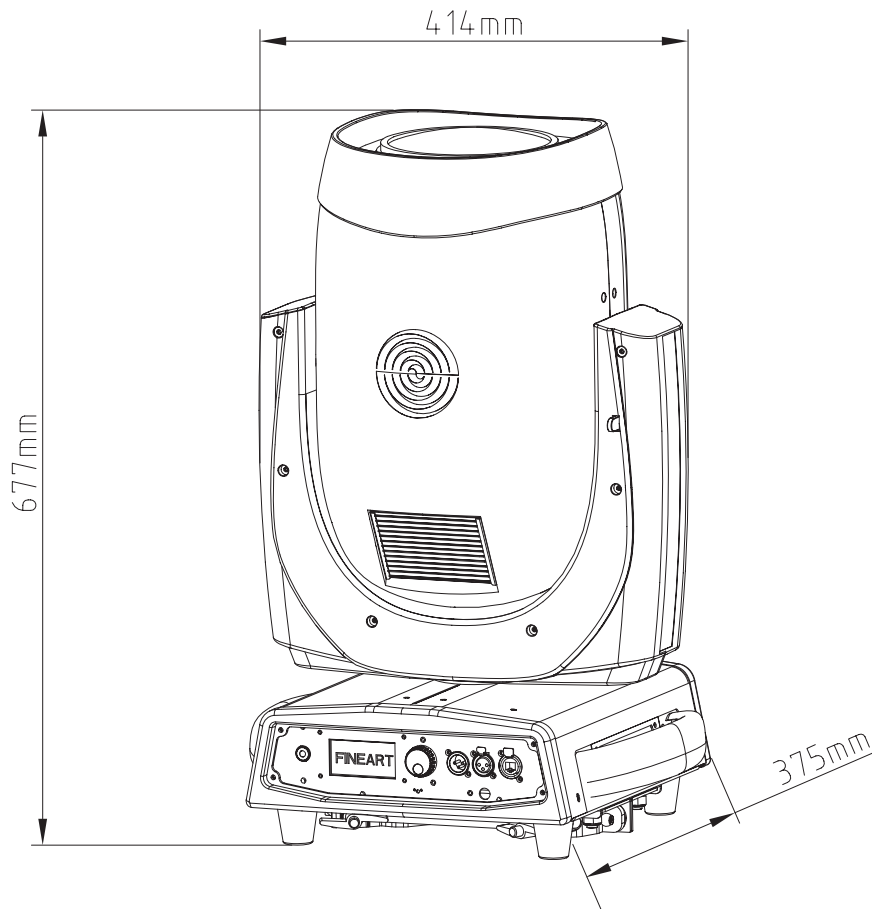
Allow the fixture to cool for at least 15 minutes before transit.

Do not revise the fixture or install any parts not from FINE ART.



Product introduction

Fixture profile dimensions



Fixture introduction

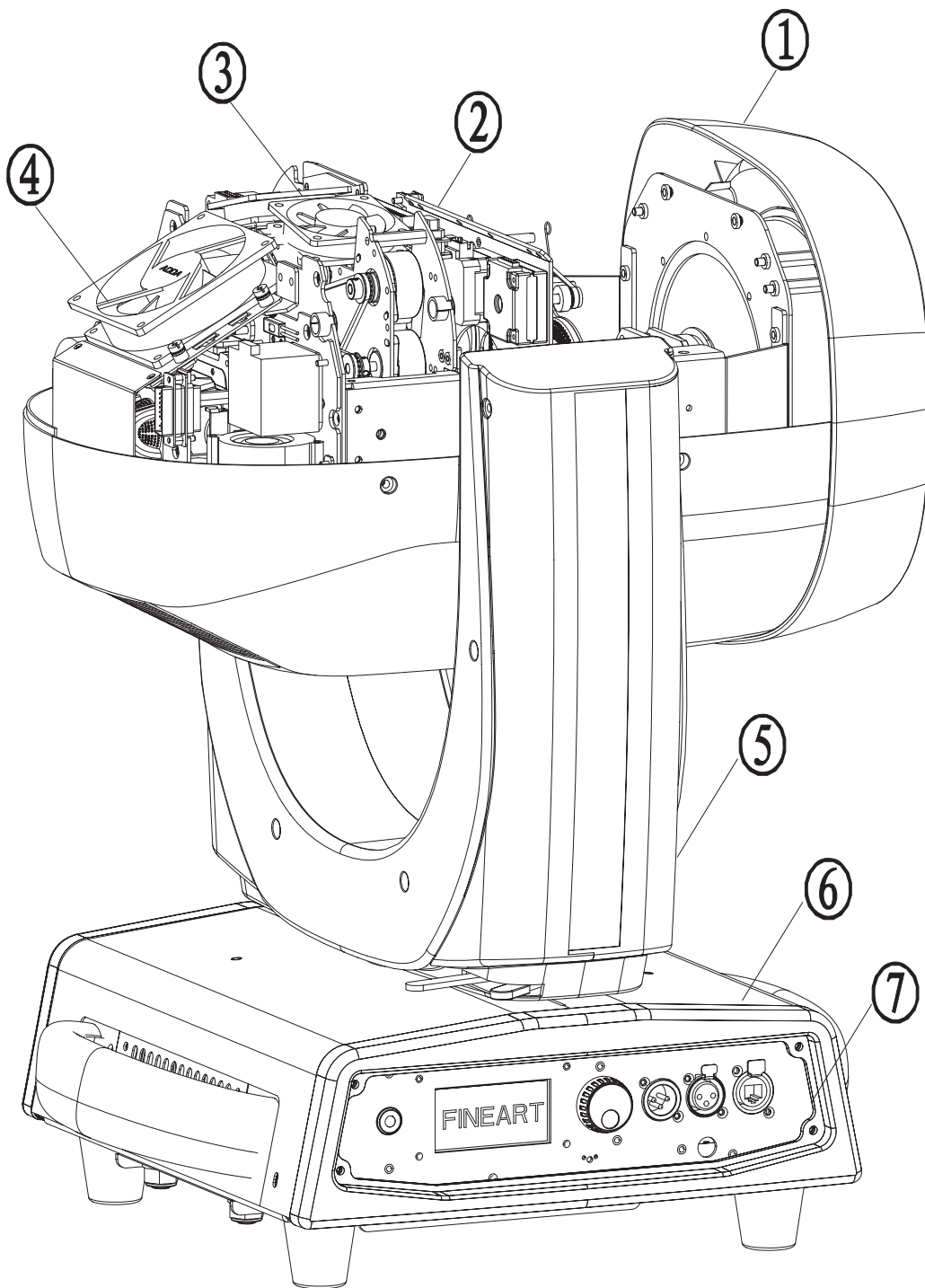


Fig.2.2-1

1	Head cover	5	Yokes module
2	Prism and frost module	6	Base module
3	Gobo & CMY module	7	LCD display
4	The fixture supporting module		

Package & delivery

Included items

FINE 550BSW is packed with single flight case, one single standard flight case carries two fixtures. Included items listed below (shown as table 3.1-1):

Accessories	QTY	UNIT
User manual	1	PCS
Signal cable	1	PCS
Safety wire	1	PCS
Fuse	2	PCS

Table 3.1-1

Transportation lock

For the ease of transit, the fixture is provided with the transportation lock with five locking positions. As shown in Fig.3.2-1, the fixture is lock at middle locking position where in the beam axis is perpendicular to the yoke.

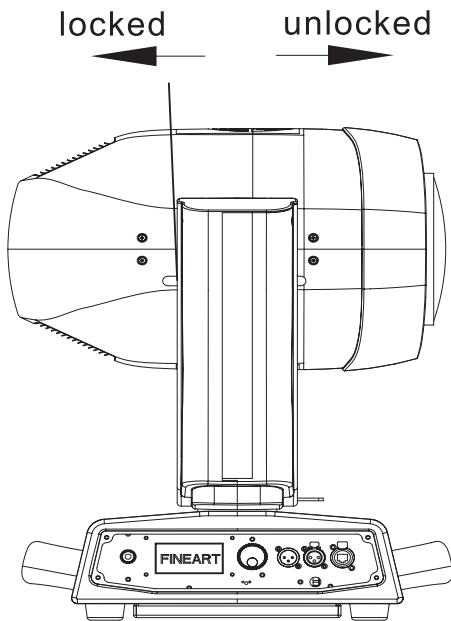


Fig.3.2-1 transportation lock

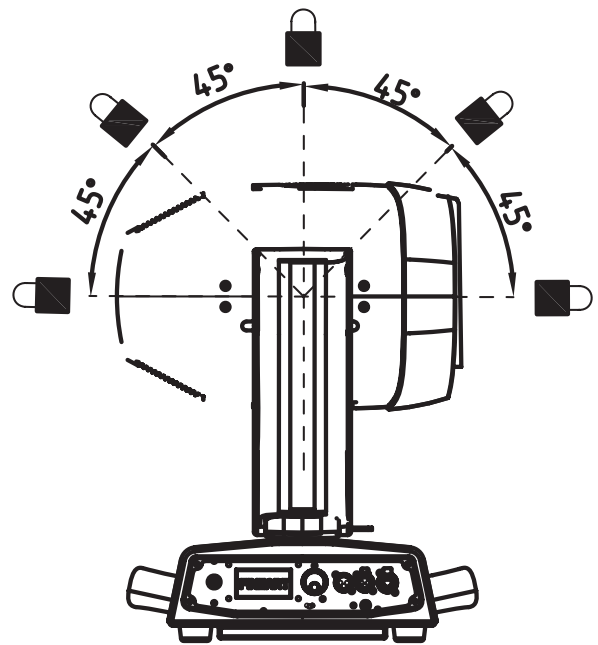


Fig.3.2-2 transportation lock

Fixture package

1. Before packaging, please disconnect the fixture from power supply and wait at least 15 minutes for cooling.
2. Remove dust buildup on the exterior surface, tight the transportation lock.
3. Pack the fixture with an inner bag, grasp both handles on the base and carefully upside down the fixture, and gently place it onto the intended mounting recesses within the road-case.

4. Pack the included accessories into the road-case.
5. Road-case stacking do not exceed 2 layers, upside down the road-case is not allowed.

Unpacking

Notice: inspect the units upon reception. If there is any evident damage due to transit, do not use the units and notify FINEART local distributor or contact FINE ART.

1. Open the road-case and unpack the inner bag.
2. Grasp the handles on the base and lift the fixture out from the road-case. Alternatively, first open the upper casing of the road-case. Apply 2 sets of suspension clamps to the bottom of the base. Then lower the lifter to such a level where it's easier to clamp the fixture and the lifter together via a "G" hook. Secure the locking screw in the "G" hook. Finally, lift the fixture out of the flight case.
3. Release the transportation lock before power up the fixture.

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 0°C-40°C, When ambient temperature over the range, don't operate the fixture. When the fixture are in installtion, 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.

Installing riggings

FINE 550 BSW with integrated suspension fastener is convenient for transportation and hanging assembly operation, which can improve efficiency and safety reliability.

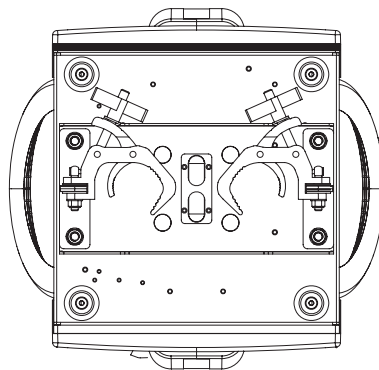


Fig.4.1-1



The fixture must be fixed by a pair of 1/4 turn clamps. Clockwise rotate the lever by 90°, then the clamp is securely lock.

Equipment installation

1. To inspect the truss hook/rigging are in good condition and can bear about 10times the weight of the light fixture. Be sure the truss or pipe construction can bear 10 times the weight of all equipments including lights, truss hooks, cables and accessories.
2. Lock each clamp securely to a clamp bracket with a 12M bolt and lock nut.
3. Install a clamp point in the base, insert the fasteners into the base and turn the two levers a full 1/4 buckle clockwise to lock it completely, and install the second clamp in the same way.
4. If the truss can be lift automatic up and down, the light fixture can be lifted and hooked from flight case directly. When the lights equipments need to lift high, the working area below should have some barrier to ensure the installation works operated under safety condition. Finally suspend the fixture onto the truss and fasten clamps all and lift truss totally.
5. Connect a safety rope which can bear 10 times weight of the fixture, the attachment is designed to fit a clamp.
6. Check the transportation lock have been unlocked, Be sure there is no explosive or inflammable materials around the fixture in 0.5 meter around.



Warning

The safety wire should attached to the hole on the mounting plate. Do not tie the safety wire to the handles instead.

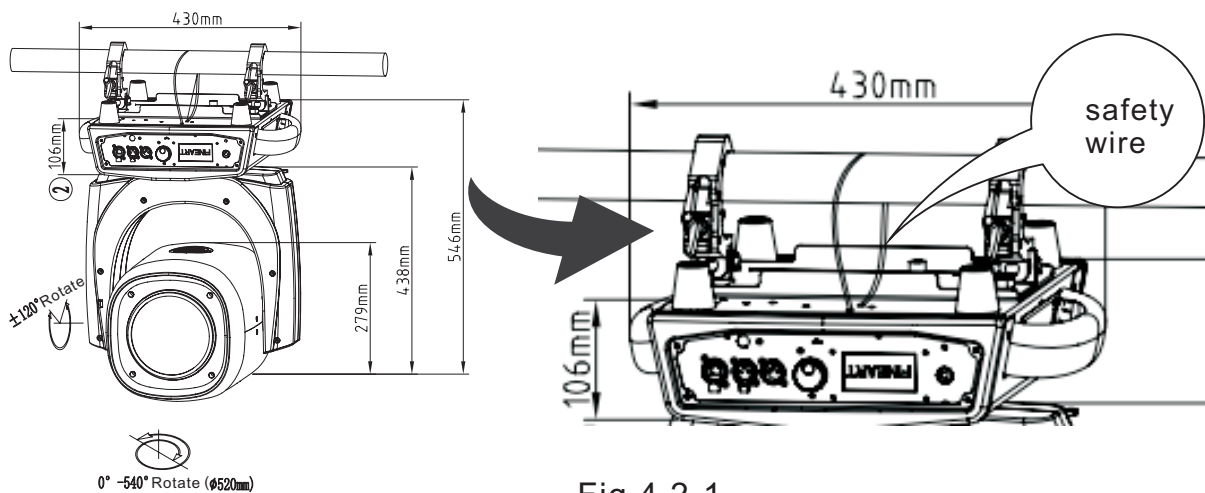


Fig.4.2-1



Warning

The fixtures must be placed upright, minimum spacing between each two fixtures in an array is 900mm, arrangement layout as shown in Fig.4.2-2.

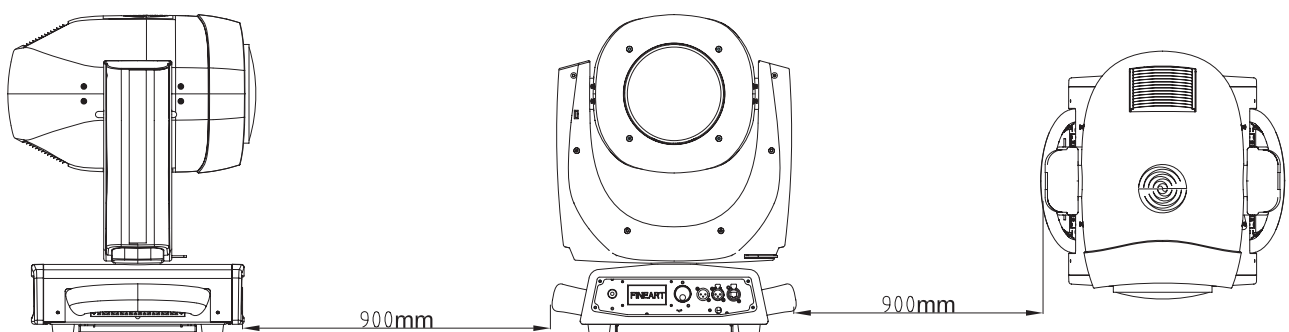


Fig.4.2-2

Tips for data link

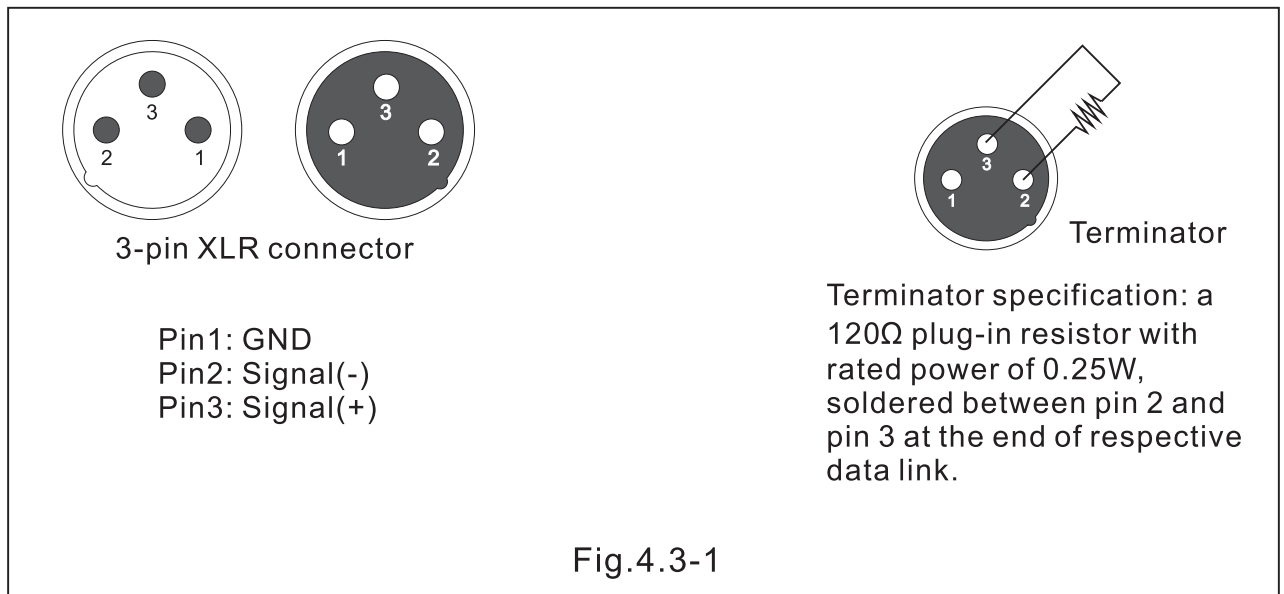
Data linkage for the fixture may be provided by DMX512 connection, Ethernet connection, Ethernet/DMX512 connection and wireless linkage.

DMX connection

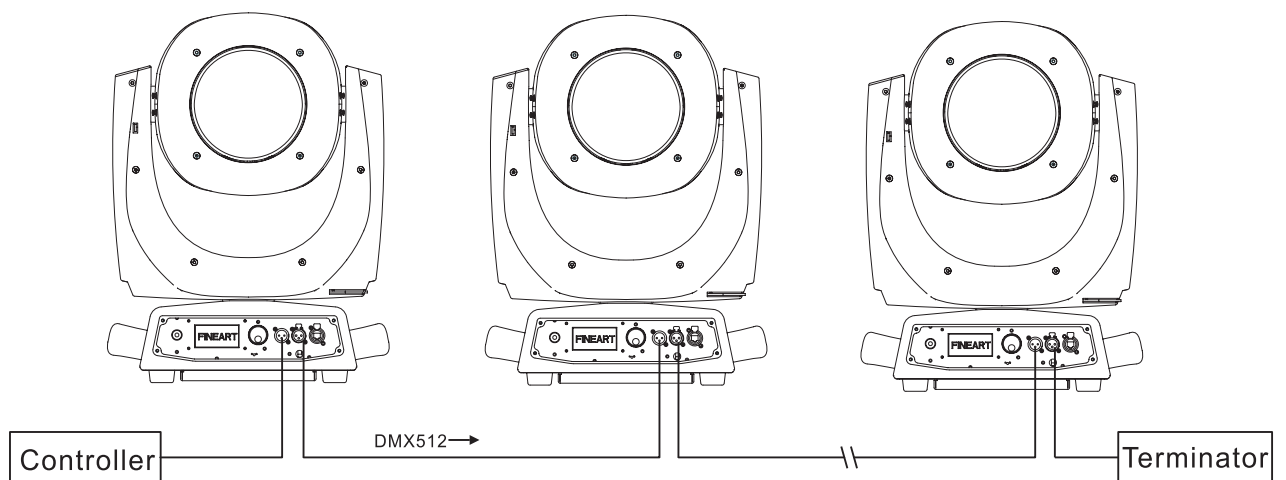
Note: The signal cable was type X connection.

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 or 5-pin XLR connectors 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.



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 said first fixture to the 3-pin or 5-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. 4.3-2 below.



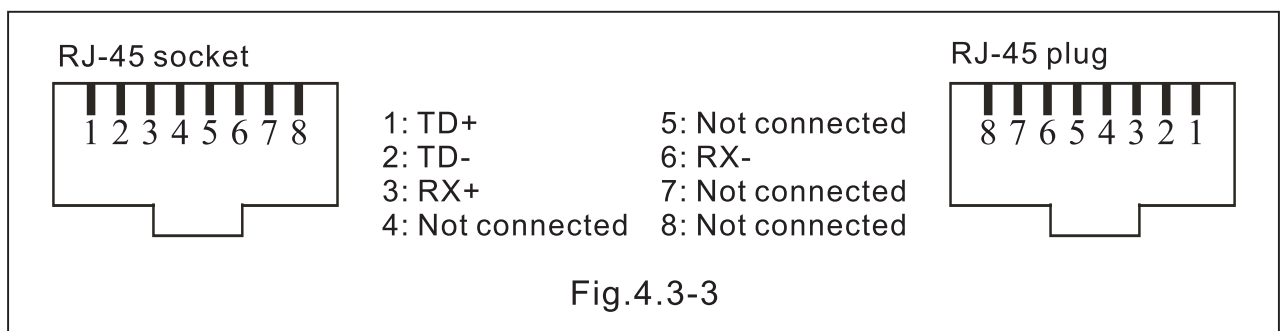
If long-distance data transfer occurs, a DMX512 signal amplifier is necessary. The added amplifier is inserted between the lighting controller and the first fixture on the basis of a normal data link.

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.

Ethernet connection

1. The data communication is provided with ART-NET protocol, thus the controlling utilities used in the lighting controller or PC must support such protocol. Art-Net is a kind of 10 base T Ethernet protocol derived from TCP/IP. It allows transmission of enormous DMX512 data over normative network. The maximum transferring speed can reach 10Mb/s.
2. The fixture is provided with 8-pin RJ-45 connector for internet input. Please use class 5 cables and standard RJ-45 connector for internet connection, Shown as Fig.4.3-3.



3. Ethernet setting

(a) Ethernet receiving mode setup:

“Personality”→“Receive Mode”→“ENET”

(b) IP address setup:

“Personality”→“IP Address A”→“002, 010”

→“IP Address B”→“xxx (000-255)”

→“IP Address C”→“xxx (000-255)”

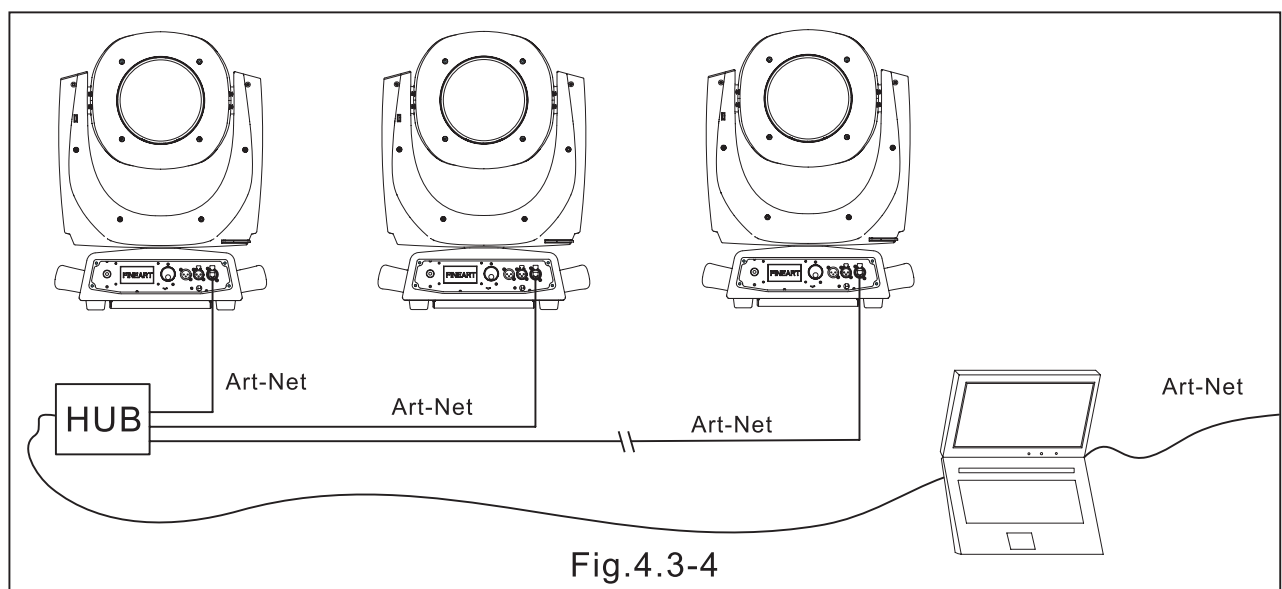
→“IP Address D”→“xxx (000-255)”

Type A IP address is configured as default addresses.

(c) Ethernet node (universe) setup:

“Personality”→“Universe”→“xxx(000 - 255)”

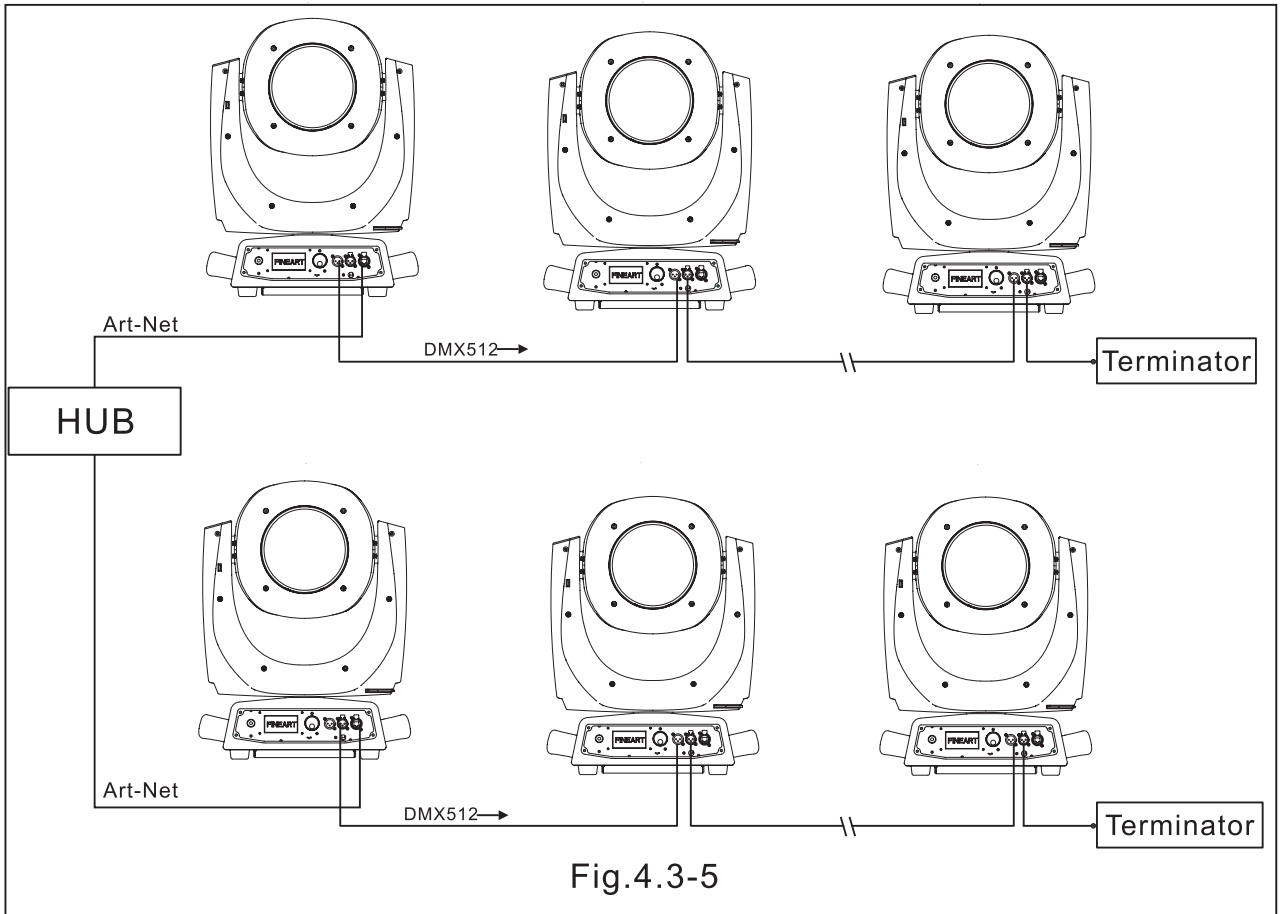
4. Ethernet connection layout, shown as Fig.4.3-4.



Notice: If a fixture directly connected to a PC without using a hub or a LAN, the wiring should be crossed connection.

Ethernet/DMX512 connection

The first fixture in the serial link, which is directly connected to the Ethernet network, should be such that the “fixture receiving mode” is set as “ENET→DMX”. The rest fixtures in the link should be set as “DMX” receiving mode. Then connect the output of the said first fixture to the input of a next fixture. Similarly, repeat the above connection till the DMX data link is completed. Shown as Fig. 4.3-5.



Notice:A terminal plug should be installed in the last fixture under this connection mode

AC power supply

Fuses

Power supply and fuses' type and rating:

Power	Fuse
100-240V~	10A 6×30

Table 5.1-1

Power connection

Notice: Type Y 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 lamp provided with over-loading or creepage protection.

1. Connecting the equipment to the power supply, do not connect to silicon box system, or else, it will destroy the equipment. The fixture is provided with standard 3-pin socket. Please according to table 5.2-1 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.
2. When power is supplied, put the base switch to the position "I".


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

Table 5.2-1

Lamp

Lamp introduction

FINE 550 BSW comes with SIRIUS HRI 550W XL(OSRAM) single-ended lamp. This short-arc lamp offers color temperature 7800K, color rendering index: larger than 75.



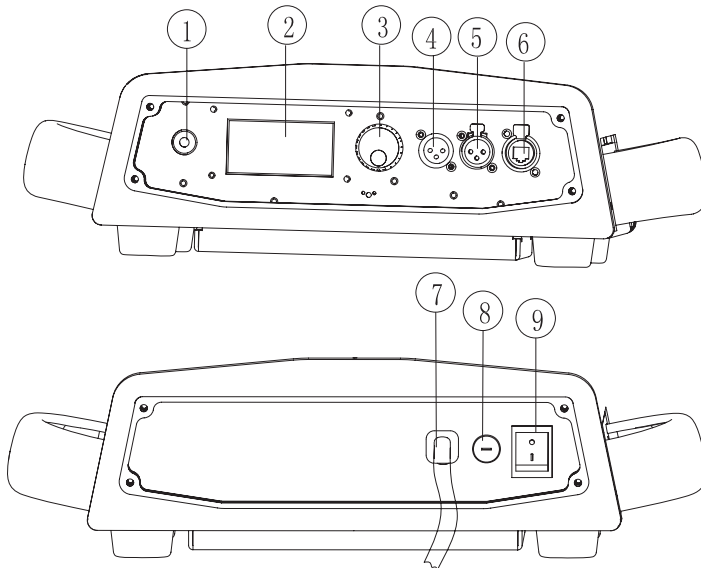
Warning

1. Don't use other types of lamps instead of the intended ones, other-wise safety hazards or damages to the fixture may arise.
2. To reduce the risk of lamp shattering, replace a used lamp when it reaches its expected service life.
3. Do not use a defected or fissured lamp.
4. Attention! Pls do not cut off the power supply while the lamp is working, or the lamp will be damaged, so pls cut off the power supply after 5 minutes for the lamp-off.

Control panel

Control panel introduction

Shown in Fig.7.1-1:



- 1.Exit button
- 2.LCD display
- 3.Function button
- 4.DMX interface
- 5.DMX interface
- 6.Ethernet interface
- 7.Power cord
- 8.Fuse
- 9.Power switch

Fig.7.1-1

Control panel operational instruction

1. Mains switch: It's power off when turning the mains switch to "O". And it's power on when turning the mains switch to "I".
2. Exit button: quit modification or return to upper menu.
3. Jog wheel:
Press down the jog wheel: enter an item/save the present value. Holds for a few more second, it will return to upper menu.
Clockwise rotate: scroll down the page/increase the parameter value.
Counterclockwise rotate: scroll up the page/decrease the parameter value.
4. Menu access: Menu editing is accessible even in the case of supply disconnection, wherein press down and hold both "Exit button" and "jog wheel" till the backup battery is activated, then the main menu will display. Details refer to Fig.7.2-1.
5. Display inverse function: with connection to the supply, press down the "Exit button" and "Jog Wheel" almost at the same time, the screen display will invert by 180°.

Main Menu Interface

main menu

Feature setting

Speed setting

Channel setting

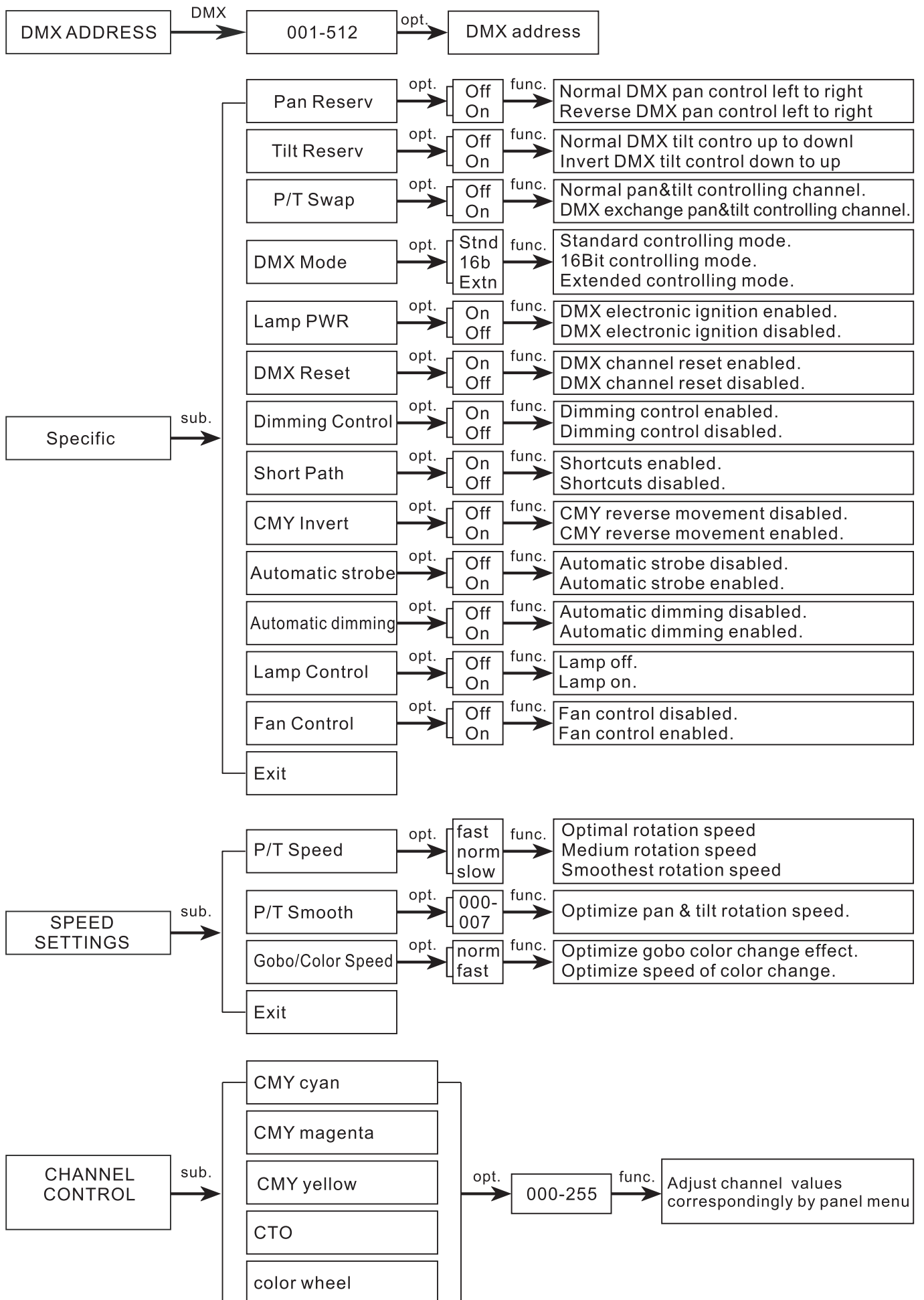
IP add setting

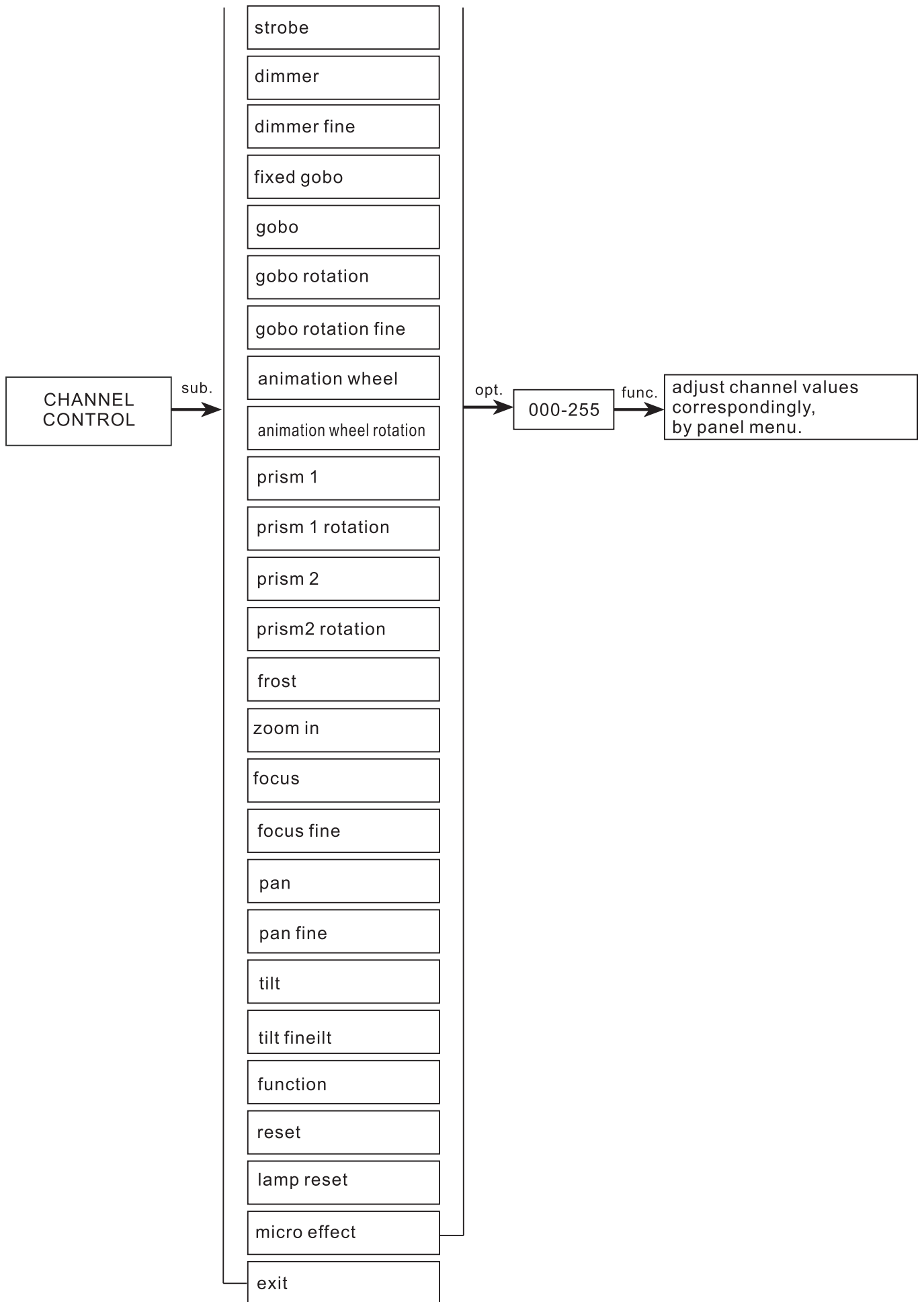
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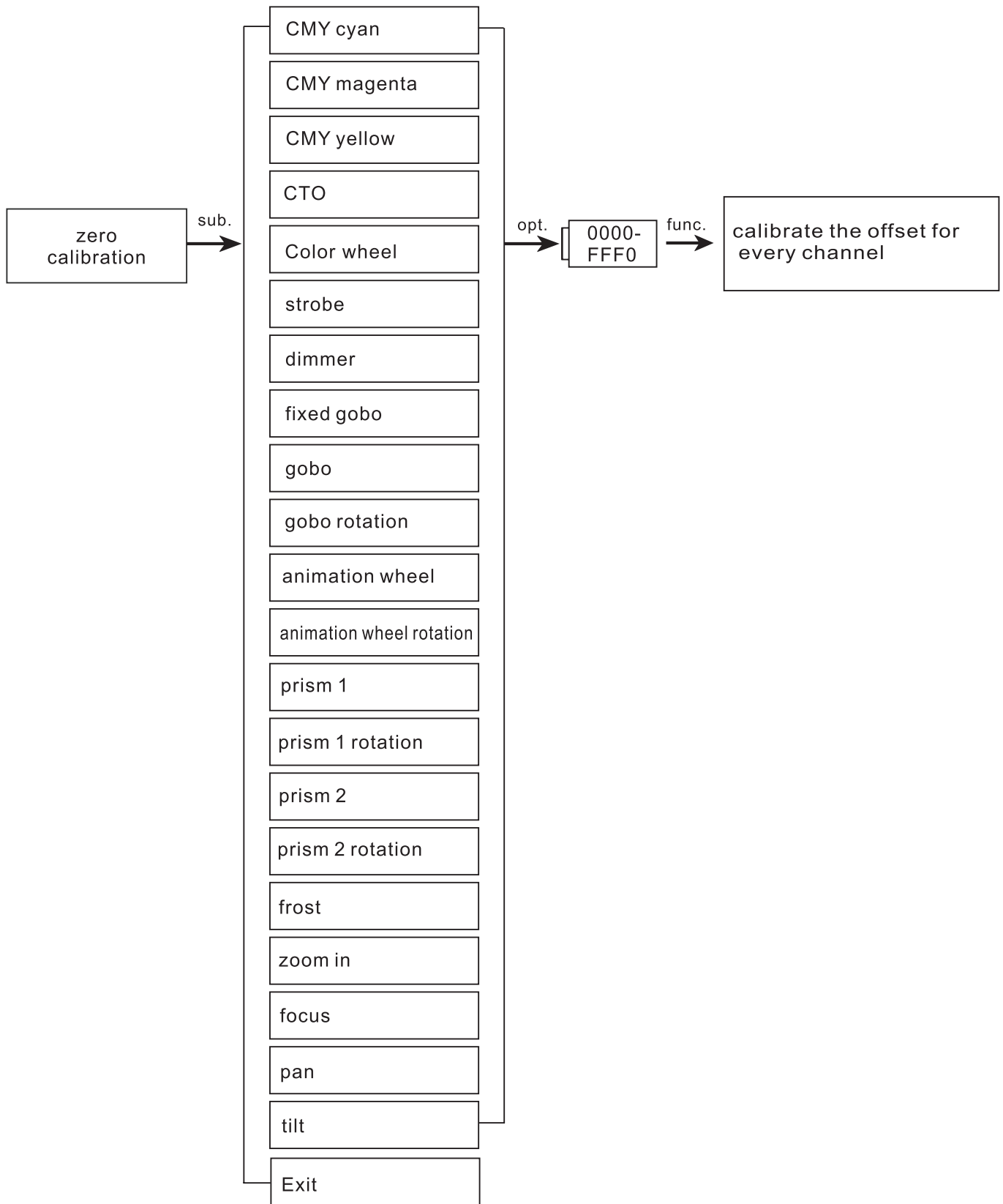
Notice: In the menu page, a grey bar indicates an active item, if you want to enter that item, click the "Jog Wheel" to confirm (alternatively, click the "Enter" icon on the display), then a corresponding submenu appears and allows for further editing. If the present active item is not desired, rotate the "Jog Wheel" to scroll over the items (alternatively, click the "Up"/"Down" icon on the display to scroll over the items).

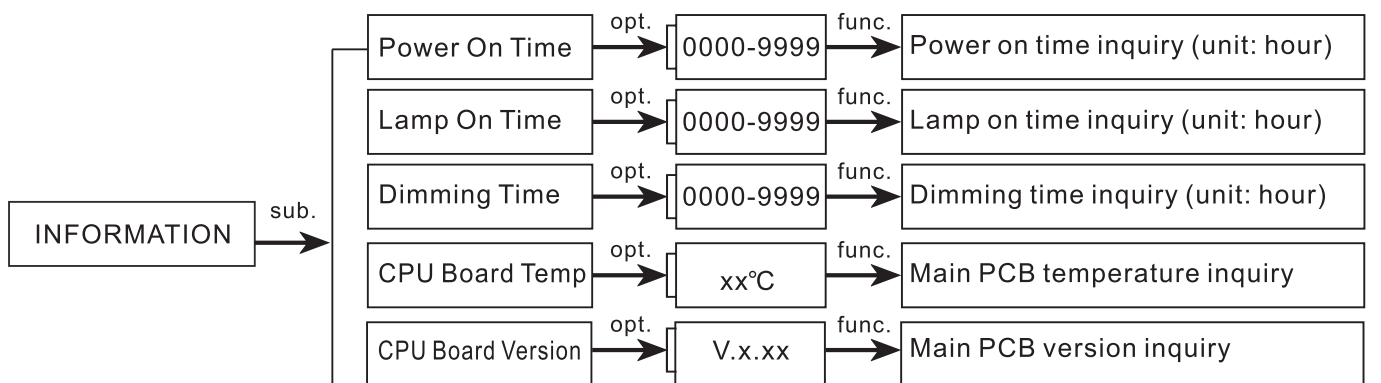
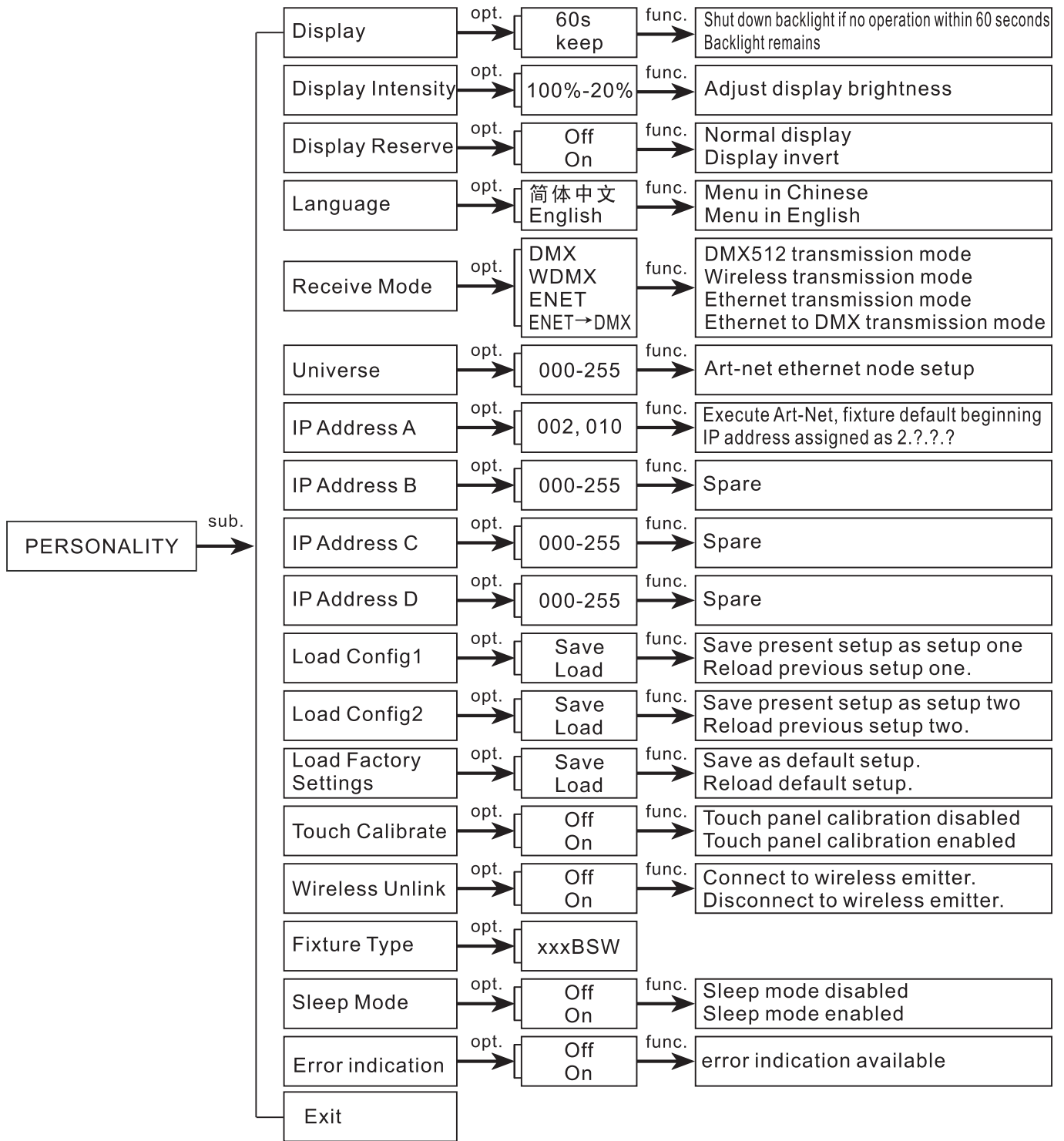
Fig.7.2-1

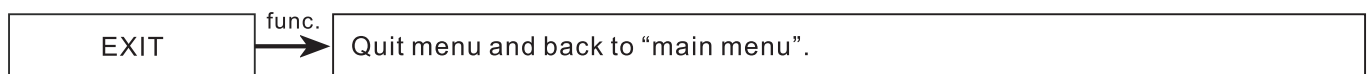
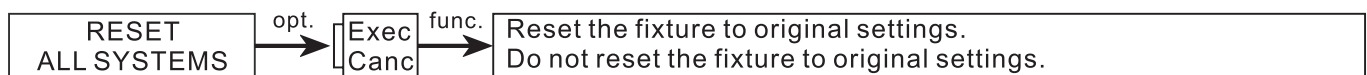
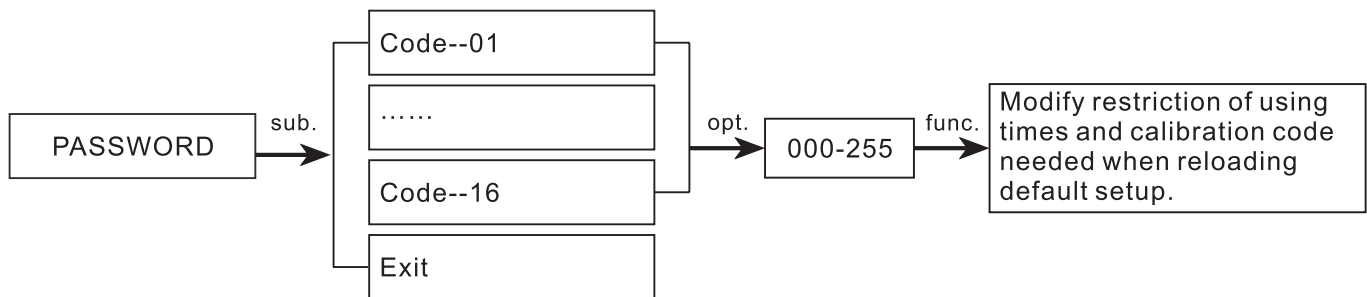
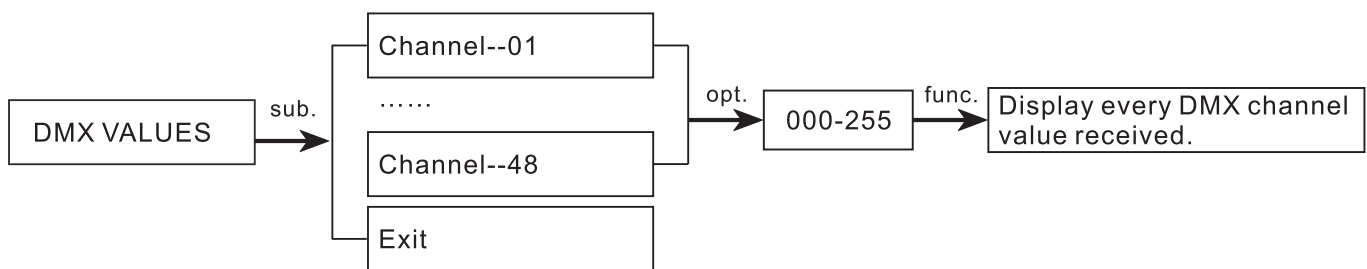
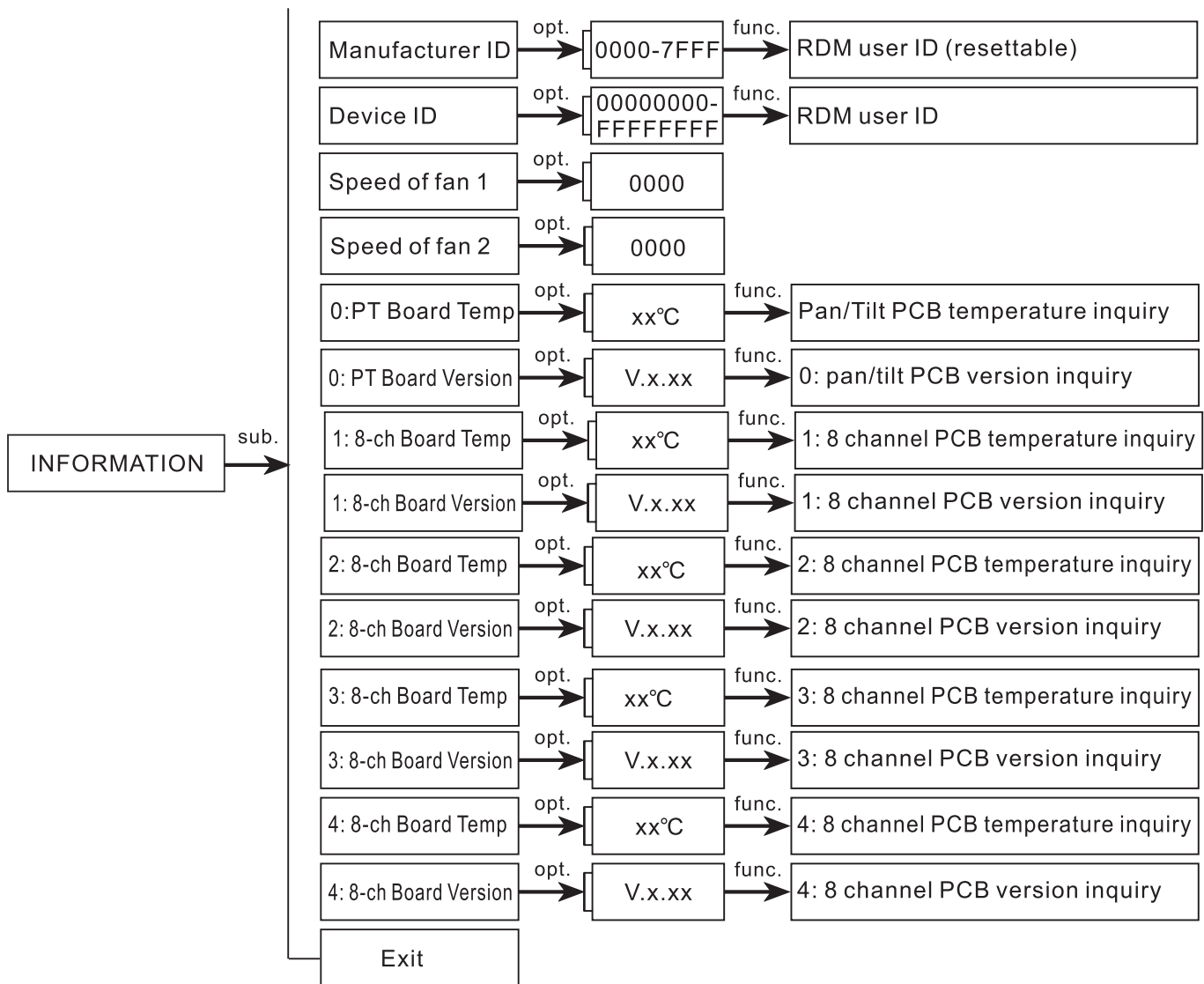
Display panel operational function detail

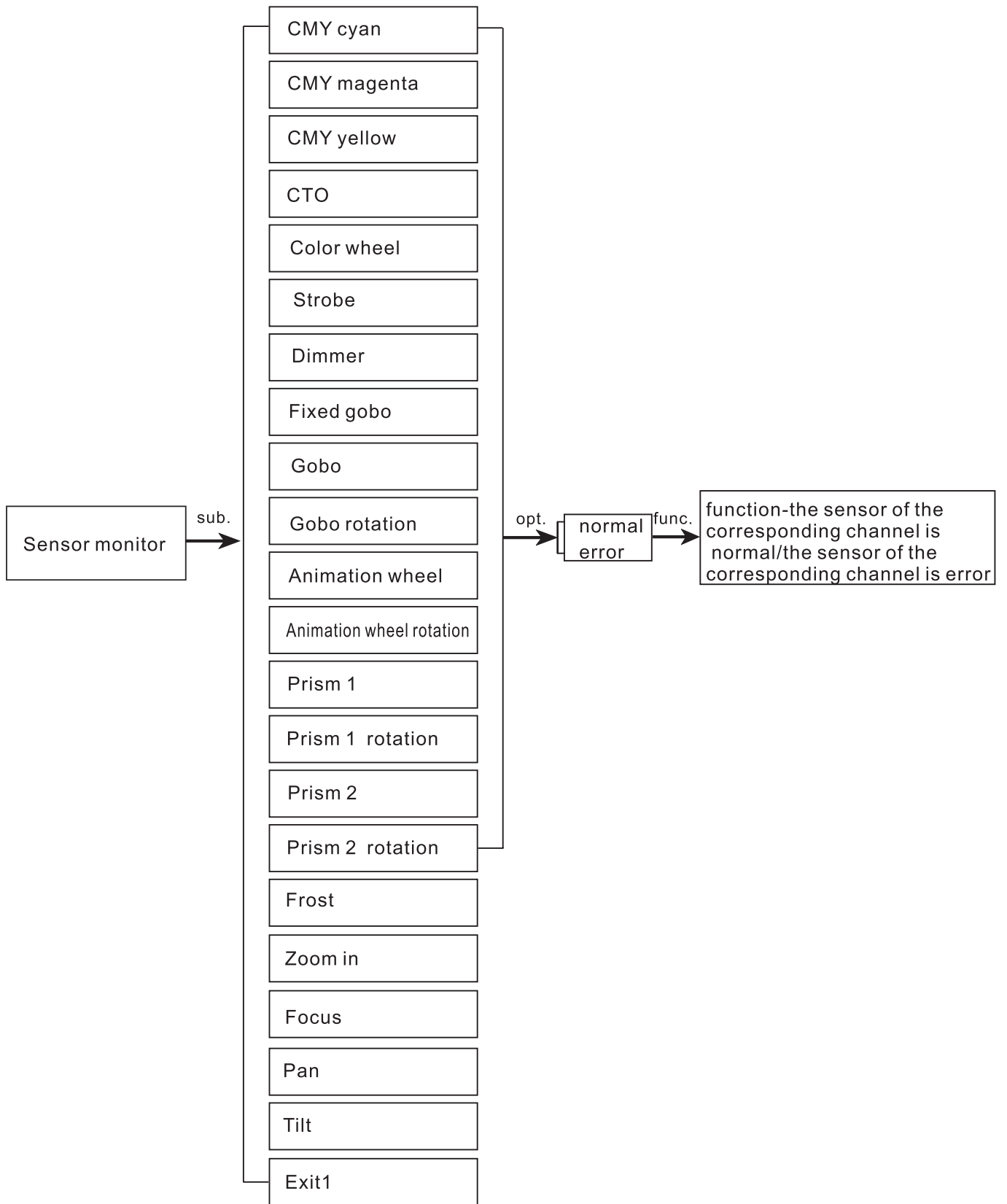












Technical feature

OPTICAL SYSTEM

Lamp Source: OSRAM SIRIUS HRI 550XL,

Color temperature: 7500K, life span: 1500H

Electric zoom

Angle:

Beam-Spot: 2° - 32° (Automatically focus);

Wash mode: 3.2° - 30° (1/10 peak)

1.6° - 12° (1/2 peak)

COLOR SYSTEM

CMY infinite color mixing system

Multiple color temperature change (2800K-7000K)

Independent color wheel: 14 colors, half color and rainbow effect, can choose different speed of water-running effect, generate endless color change effect matching with CMY+CTO system

GOBO SYSTEM

1 rotating gobo wheel with 8 gobos (pluggable) + white, with the feature of water-running, shaking, and self-rotating effect, gobo wheel can be positioned

1 fixed gobo wheel with 15 gobos + white, with the feature of water-running and shaking effects

1 animation wheel, which can switch in and out, rotate infinitely, imitate flame, water-running animating effects and etc., animation wheel effect, overlapped with fixed gobo and rotating gobo wheel

EFFECT EQUIPMENT

Dimmer: linear 0-100% dimming

Soft light: Independent frost effect: 0~100%

Strobe: fast speed strobe, multiple strobe effects (pulse/asynchronous/synchronous/slow- medium-fast at random)

Prism: one 8-facet Self-rotating prism + one 4-facet radiant prism, overlapped and bidirectional rotation

MOVEMENT PARAMETER

Angle: PAN=540°, precision: 2.11°/step, FINE: 0.008°/step

TILT=250°, precision: 1.05°/step, FINE: 0.004°/step

16bit precise adjustment with reset function

Pan/Tilt uses magnetic encoder positioning to reset

CONTROL AND PROGRAMMING

Control channel: 30(standard)/34(16 bit) /40(extended), 3 control modes

Protocol: Standard DMX512 protocol, Art-net light control protocol and wireless DMX512 control (optional)

Menu display: LCD display (3.5 inches), resolution ratio: 128 x 64;

random switch of Chinese and English, available to display 180° reversely; non-contact wheel operating mode.

ELECTRONIC CONTROL TECHNOLOGY

Built-in self-rechargeable battery, Menu edit available without power

Power will automatically decrease when light off

Energy saving and environmental protection

Intelligent fan control

Cooling system: advanced scientific thermal system design, so that all subsystems inside the lamp are in a reasonable working temperature range, which can extend the service life of the lamp and improve the reliability of the lamp.

Electronic sensor detection

DMX control monitor

Pan and tilt three-phase motor drive

Query by LCD screen, display the fixture and lamp work hours

Electric zoom

RDM bidirectional data transmission

The DMX IP address Changing, lamp on and off, fixture reset, and the mode switch can control directly from the console

Software upgrade device can be used to connect the DMX port to upgrade software

Input signal isolation protection

POWER SUPPLY

100-240V~ 50/60Hz

Input current: 8.1A

Electronic ballast:

Input Power: 810W

PF≥0.98

DIMENSION AND WEIGHT

Fixture Dimension:

432mm × 414mm × 656mm

Package Dimension:

990mm × 525mm × 795mm (flight case)

Net Weight: 30kg (fixture)

Gross Weight: 93kg (flight case)

PACKAGE

2pcs / flight case

IP RATE

IP 20

Production feature explanation

COLOR SYSTEM

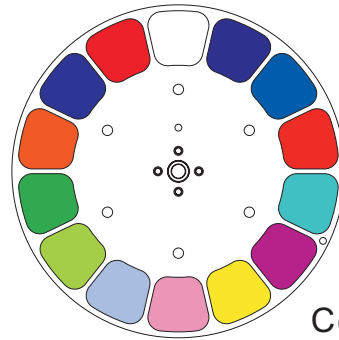
CMY infinite color mixing system

Multiple color temperature change (2800K-7000K)

Independent color wheel: 13 colors, half color and rainbow effect, can choose different speed of water-running effect, generate endless color change effect matching with CMY+CTO system



CMY+CTO



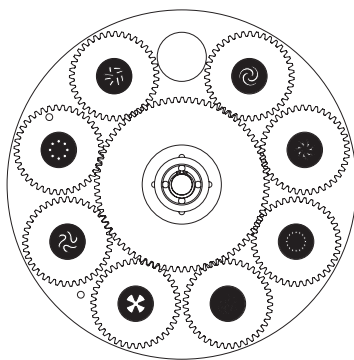
Color wheel

GOBO SYSTEM

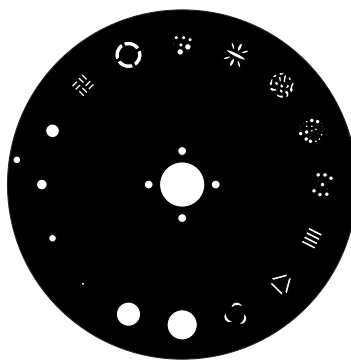
1 rotating gobo wheel with 8 gobos (pluggable) + white, with the feature of water-running, shaking, and self-rotating effect, gobo wheel can be positioned

1 fixed gobo wheel with 15 gobos + white, with the feature of water-running and shaking effects

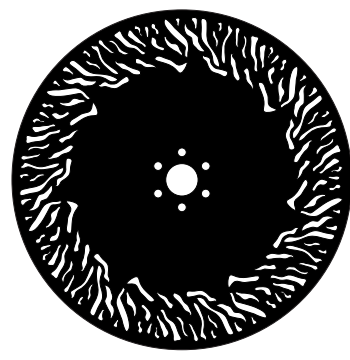
1 animation wheel, which can switch in and out, rotate infinitely, imitate flame, water-running animating effects and etc., animation wheel effect, overlapped with fixed gobo and rotating gobo wheel



GOBO wheel rotation



Static Gobo wheel



Animation wheel

PRISM

One independent frost effect, mechanical linear dimmer 5-100%, fast strobe, multiple strobe effects (pulse/asynchronous/synchronous/slow- medium-fast at random)

PAN, TLIT

Pan 540°, tilt 250°. Both of pan & tilt come with 16 Bit precise positioning function. Pan, tilt speed (fast, normal, slow), the speed can be controlled by the menu option.

Controlling Channels

Menu control

FINE 550 BSW Channel Profile			
Channel	STD	16BT	EXT
1	Cyan	Cyan	Cyan
2	Magenta	Magenta	Cyan Fine
3	Yellow	Yellow	Magenta
4	CTC	CTC	Magenta Fine
5	Color Wheel	Color Wheel	Yellow
6	Strobe	Strobe	Yellow Fine
7	Dimmer	Dimmer	CTC
8	Dimmer Fine	Dimmer Fine	CTC Fine
9	Static Gobo	Static Gobo	Color Wheel
10	Gobo	Gobo	Strobe
11	Rot Gobo	Rot Gobo	Dimmer
12	Rot Gobo Fine	Rot Gobo Fine	Dimmer Fine
13	Animation Wheel	Animation Wheel	Static Gobo
14	Animation Rot	Animation Rot	Gobo
15	Prism1	Prism1	Rot Gobo
16	Rot Prism1	Rot Prism1	Rot Gobo Fine
17	Prism2	Prism2	Animation Wheel
18	Rot Prism2	Rot Prism2	Animation Rot
19	Frost	Frost	Prism1
20	Zoom In	Zoom In	Rot Prism1
21	Focus	Focus	Prism2
22	Focus Fine	Focus Fine	Rot Prism2
23	Pan	Pan	Frost
24	Pan Fine	Pan Fine	Frost Fine
25	Tilt	Tilt	Zoom In
26	Tilt Fine	Tilt Fine	Zoom In Fine
27	Function	Function	Focus
28	Reset Channel	Reset Channel	Focus Fine
29	Lamp control	Lamp control	Pan
30	Macro Function	Macro Function	Pan Fine
31		Pan-tilt Speed	Tilt
32		Color Speed	Tilt Fine
33		Zoom in/out	Function
34		Gobo Speed	Reset Channel
35			Lamp control
36			Macro Function
37			Pan-tilt Speed
38			Color Speed
39			Zoom in/out
40			Gobo Speed

DMX Control

FINE 550 BSW DMX CHANNEL						
Specific	English	STD	16BT	EXT	Value	Function
Cyan	Cyan	1	1	1	000~255	Cyan linear movement
Cyan Fine		-	-	2		
Magneta	Magneta	2	2	3	000~255	Magenta linear movement
Magneta Fine		-	-	4		
Yellow	Yellow	3	3	5	000~255	Yellow linear movement
Yellow Fine		-	-	6		
CTO	CTO	4	4	7	000~255	CTO linear movement
CTO Fine		-	-	8		
Color Wheel	Color	5	5	9	000~127	White light -> (blue + white light) linear change
					128~190	Fast->slow speed clockwise
					191~192	Stop
					193~255	Slow -> fast speed counterclockwise
Strobe	Strobe	6	6	10	000~003	Off
					004~103	Strobe slow->fast
					104~107	On
					108~207	Pulse from slow->fast
					208~212	On
					213~225	Random strobe slow speed
					226~238	Random strobe medium speed
					239~251	Random strobe fast speed
252~255	On					
Dimmer	Dimmer	7	7	11	000~255	0%->100%
Dimmer Fine	Dimmer Fine	8	8	12	000~255	0%->100%
Static Gobo	Static Gobo	9	9	13	000~003	White
					004~007	Gobo1
					008~011	Gobo2
					012~015	Gobo3
					016~018	Gobo4
					019~022	Gobo5
					023~026	Gobo6
					027~030	Gobo7
					031~034	Gobo8
					035~037	Gobo9
					038~041	Gobo10
					042~045	Gobo11
					046~049	Gobo12
					050~053	Gobo13
					054~056	Gobo14
					057~060	Gobo15
					061~064	Spare
					065~068	Spare
					069~071	Spare
					072~113	Rotate fast -> slow
114~117	Stop					
118~159	Rotate slow-> fast					
160~165	Gobo1 shake slow-> fast					
166~170	Gobo2 shake slow-> fast					
171~175	Gobo3 shake slow-> fast					
176~181	Gobo4 shake slow-> fast					

FINE 550 BSW DMX CHANNEL

Specific	English	STD	16BT	EXT	Value	Function
Static Gobo	Static Gobo	9	9	13	182~196	Gobo5 shake slow-> fast
					187~191	Gobo6 shake slow-> fast
					192~197	Gobo7 shake slow-> fast
					198~202	Gobo8 shake slow-> fast
					203~207	Gobo9 shake slow-> fast
					208~213	Gobo10 shake slow-> fast
					214~218	Gobo11 shake slow-> fast
					219~223	Gobo12 shake slow-> fast
					224~229	Gobo13 shake slow-> fast
					230~234	Gobo14 shake slow-> fast
					235~239	Gobo15 shake slow-> fast
					240~245	Spare
					246~250	Spare
					251~255	Spare
Gobo	Gobo	10	10	14	000~007	White
					008~015	Gobo1
					016~023	Gobo2
					024~031	Gobo3
					032~039	Gobo4
					040~047	Gobo5
					048~055	Gobo6
					056~063	Gobo7
					064~071	Gobo8
					072~113	Rotate fast -> slow
					114~117	Stop
					118~159	Rotate slow-> fast
					160~171	Gobo1 shake slow-> fast
					172~183	Gobo2 shake slow-> fast
					184~195	Gobo3 shake slow-> fast
					196~207	Gobo4 shake slow-> fast
					208~219	Gobo5 shake slow-> fast
					220~231	Gobo6 shake slow-> fast
232~243	Gobo7 shake slow-> fast					
244~255	Gobo8 shake slow-> fast					
Rot Gobo	Rot Gobo	11	11	15	004~127	0 ~540 linear movement
					128~190	Rotate fast -> slow
					191~192	Stop
					193~255	Rotate slow-> fast
Rot Gobo Fine	Rot Gobo Fine	12	12	16	000~255	Linear Fine
Animation Wheel	Animation Insert	13	13	17	000~255	Animation Linear Insert
Animation Rot	Animation Rot	14	14	18	000~124	Clockwise rotation from fast to slow
					125~130	Stop
					131~255	Counterclockwise rotation from slow to fast
Prism1	Prism1	15	15	19	000~0127	White
					128~255	Prism1 insert

FINE 550 BSW DMX CHANNEL						
Specific	English	STD	16BT	EXT	Value	Function
Rot Prism1	Rot Prism1	16	16	20	000~127	0 ~540 linear movement
					128~190	Rotate fast -> slow
					191~192	Stop
					193~255	Rotate slow -> fast
Prism2	Prism2	17	17	21	000~0127	White
					128~255	Prism2 insert
Rot Prism2	Rot Prism2	18	18	22	000~127	0 ~540 linear movement
					128~190	Rotate fast -> slow
					191~192	Stop
					193~255	Rotate slow -> fast
Frost	Frost	19	19	23	000~255	None->The frost effect becomes stronger
Frost Fine	Frost Fine	-	-	24		
Zoom In	Zoom	20	20	25	000~255	Small->Big
Zoom In Fine	Zoom Fine	-	-	26		
Focus	Focus	21	21	27	000~255	Far->Near
Focus Fine	Focus Fine	22	22	28	000~255	Fine
Pan	Pan	23	23	29	000~255	0 -> 540
Pan Fine	Pan Fine	24	24	30		
Tilt	Tilt	25	25	31	000~255	0 -> 252
Tilt Fine	Tilt Fine	26	26	32		
Function	Function	27	27	33	000~127	SPOT MODE
					128~255	BEAM MODE
Reset	Reset	28	28	34	000~025	Useless passage
					026~076	Characteristic Zero
					077~127	Pan Tilt Zero
					128~255	The whole Fixture Zero
Lamp control	Lamp control	29	29	35	000~025	Useless passage
					026~100	Turn off lamp
					101~179	Half power
					180~255	Turn on lamp
Macro Function	Macro Function	30	30	36	000~255	Keep
Pan-tilt Speed	Pan-tilt time	-	31	37	000~255	Slide time from fast to slow
Color Speed	Color time	-	32	38	000~255	Slide time from fast to slow
Zoom in/out	Beam time	-	33	39	000~255	Slide time from fast to slow
Gobo Speed	Gobo time	-	34	40	000~255	Slide time from fast to slow



Warning

Explanation:

1. If reset the fixture through the panel, need to turn on (channel reset) and then select (Fixture Zero)
2. Perform its actions need to wait for 5 seconds after reset channel value.
3. The lamp is allowed to extinguish after 15 minute lit up. If bubble, pls waiting for 2 minutes extinguished .
4. Do not allow to reduce half power when lamp is off.
5. When turn on and turn off the lights need to open the electronic lamp.

Routine maintenance

Cleaning and maintenance

This fixture requires routine cleaning. The service life depends on the operating environment heavily. Please kindly contact FINE ART LTD for more maintenance information not included in this user's manual.

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.*

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 alcohol 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.

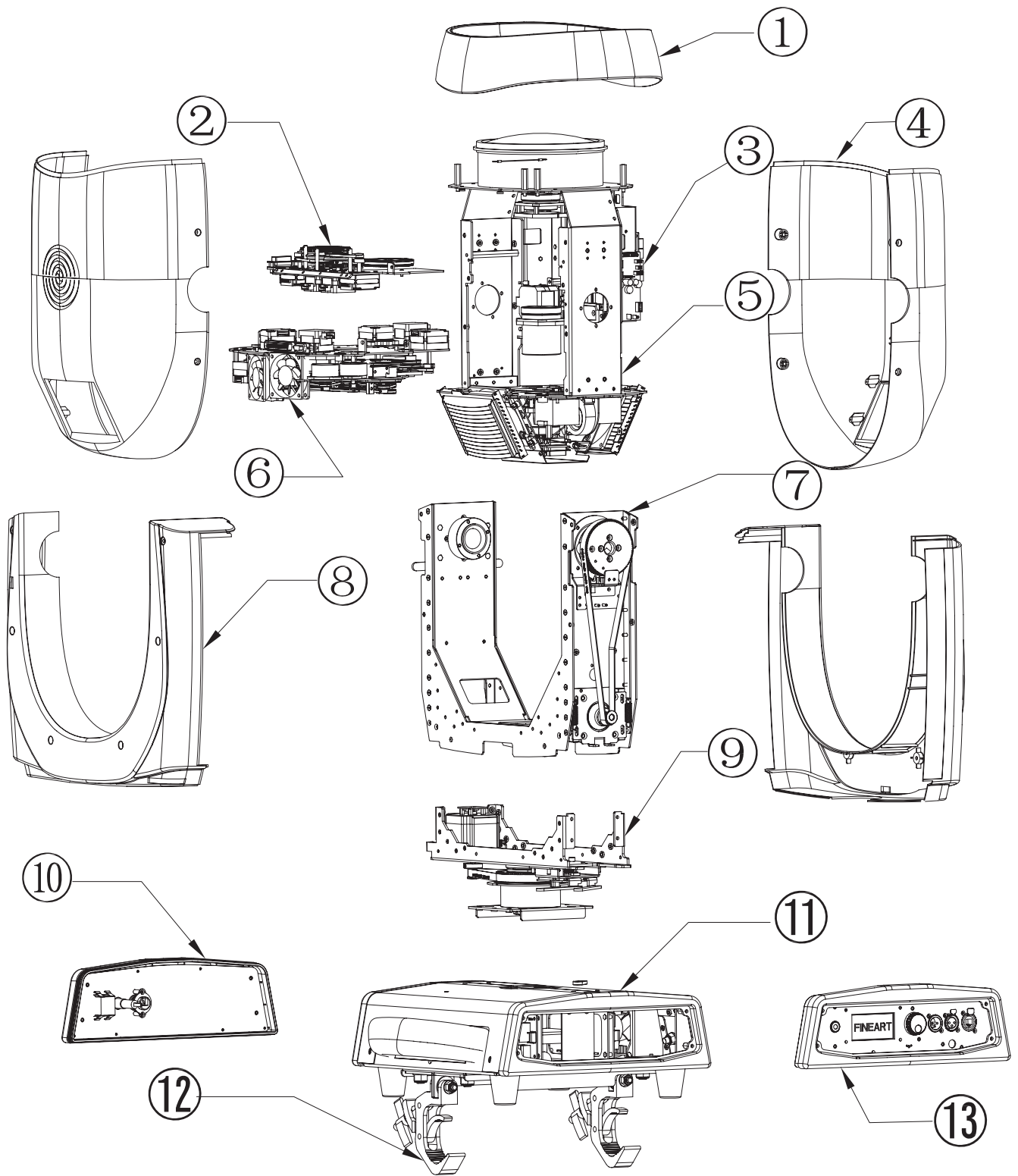
Cleaning fan and air vents

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

Ordering P/N General Parts

Item	Specification	Ordering P/N
Hall signal board PCBA	—	330386100001
8-ch drive board	—	330395100040
SIRIUS HRI 550W XL(OSRAM)	FINE 550BSW	180103000044
Electric ballast	FINE 550BSW	330397300019
Power supply	—	330001200054
Polymer lithium ion battery	—	130702000003
Fan controller board	—	330397100024
LCD display	—	280802000027
Display board	—	330395100027
3 pins XLR signal board	—	330386100002
Color/gobo wheels module	—	230397000742
Pan/tilt driver (TI) board	—	330397100063
Synchronous belt 132MXL	—	350201000430
Hall sensor PCBA	—	330395100020
Prism/frost installation module	—	230397000794
Frost lens	—	200397000074
8-facet prism	—	200397000075
4-facet gradient prism	—	200397000076
Cover glue	—	380397000230
Quadrilateral heat insulation glass	—	220397000137
Normally close temperature control 130℃	—	290102000009

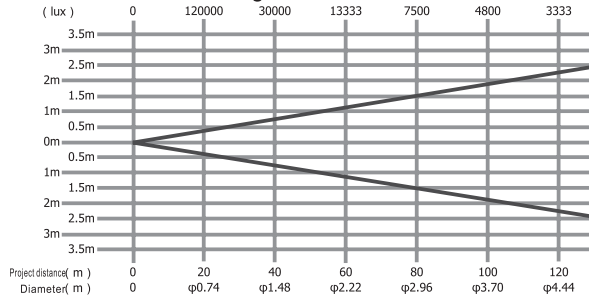
Attached 1: Fixture exploded drawing



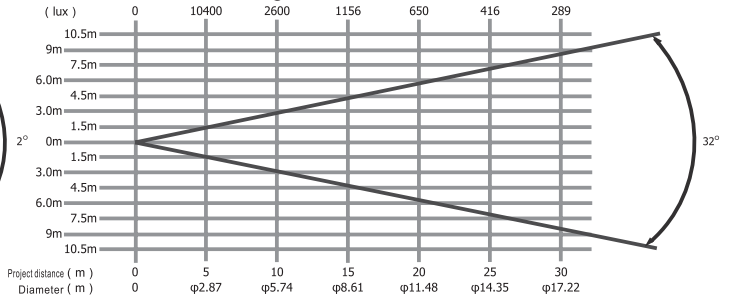
1	Head cover	6	Gobo &CMY module	11	Base module
2	Prism and frost modure	7	Yokes module	12	Supension fastenr assembly
3	Main lens modure	8	Yokes beam cover	13	LCD display
4	Body lover modure	9	Beam module		
5	The fixture supporting module	10	Back panel module		

Attached 2 FINE 550 BSW Light output and beam angle range

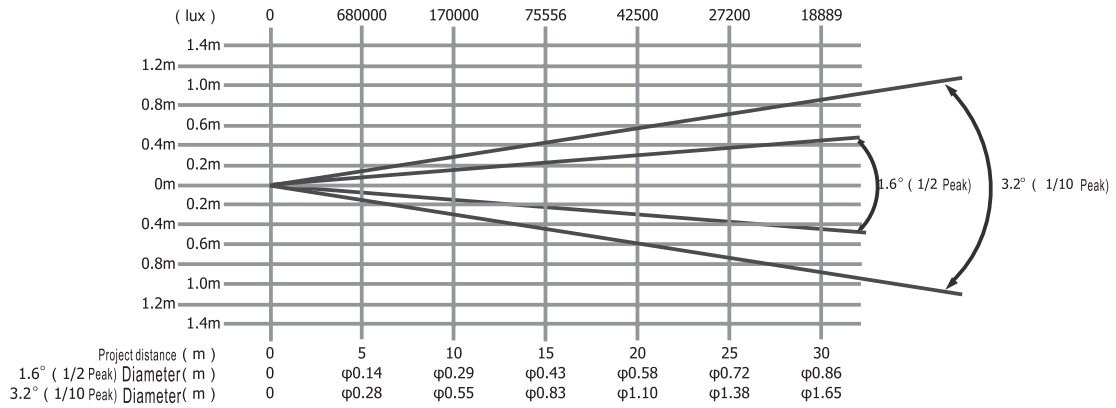
● BEAM/SPOT Min Angle



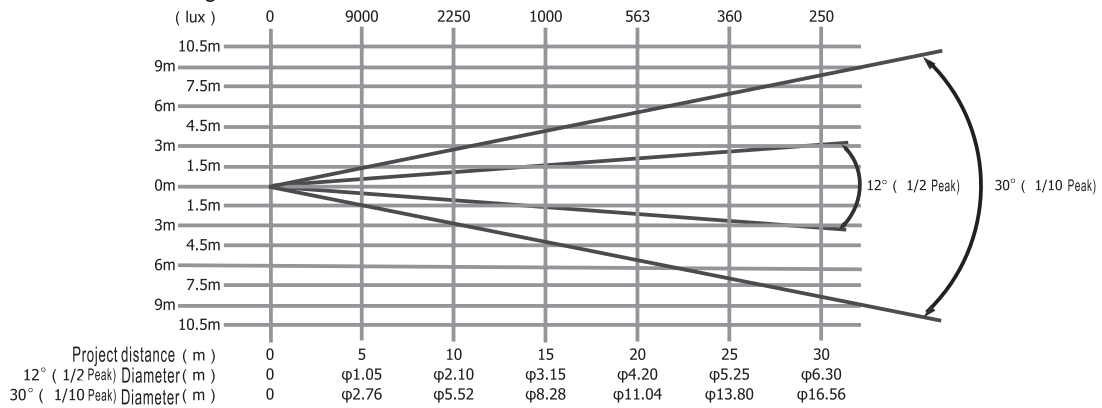
● BEAM/SPOT Max Angle



● WASH Min Angle



● WASH Max Angle



◆ Pan/Tilt Scan

