
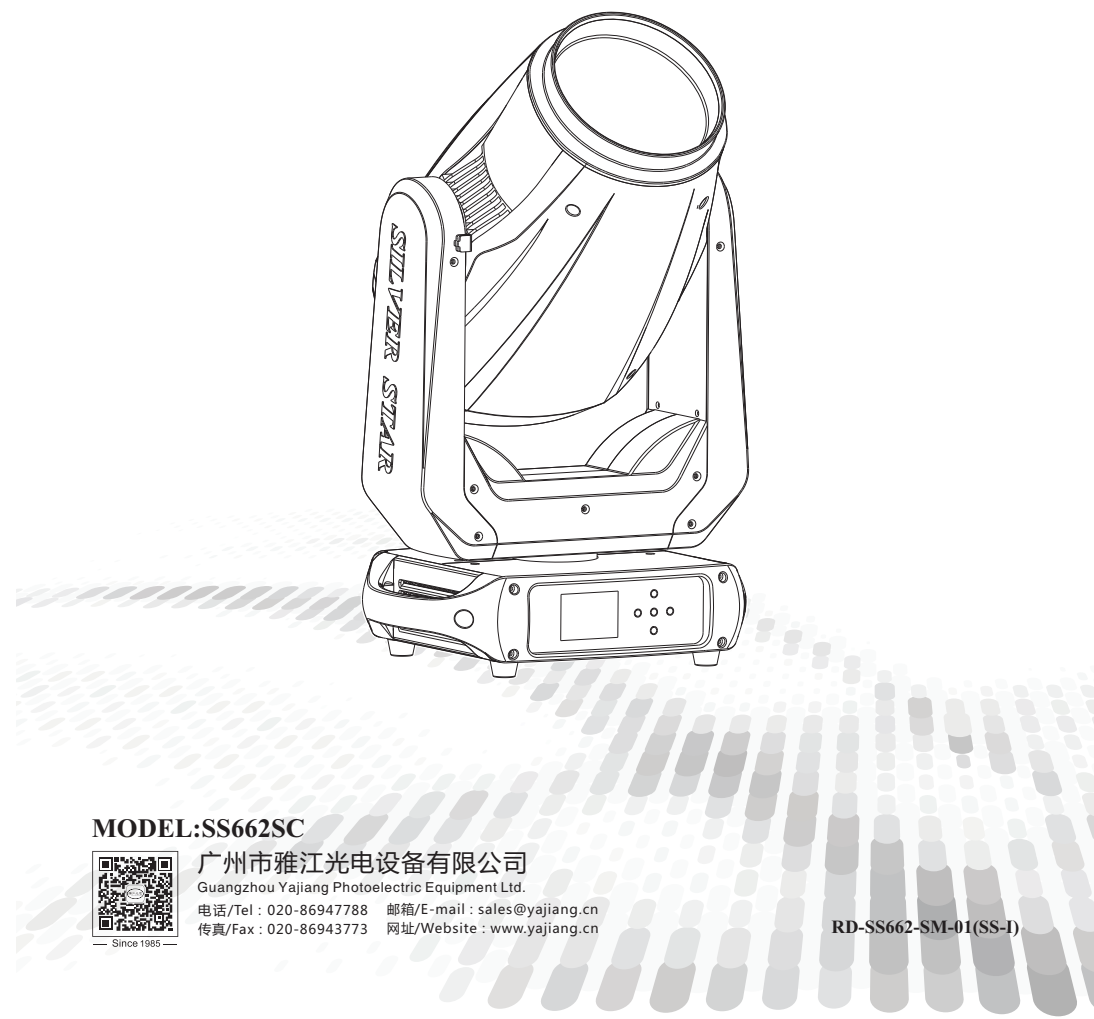
				<b>图纸编号</b>	RD-SS662-SM-01(SS-I)	<b>版本号</b>	E
SS662SC英文说明书				<b>编制日期</b>	2019/03/28		
<b>制作</b>	邓永杰	<b>SSP</b>	高文勇	<b>审核</b>		<b>批准</b>	
<b>文件名及路径</b>	系统文档夹/部门资料库/技术部/曾宪忠/包装设计/新方案/说明书/silver/SS662						
<b>新物料编号</b>	1320100484						
<b>旧物料编号</b>	P30504			<b>成品编号</b>			
<b>通用产品</b>							
<b>备注</b>	通道表删除雾化						H

# PLUTO 250

## USER MANUAL

 <sup>®</sup> PLUTO 250  
SS662



**MODEL:SS662SC**



广州市雅江光电设备有限公司

Guangzhou Yajiang Photoelectric Equipment Ltd.

电话/Tel : 020-86947788 邮箱/E-mail : sales@yajiang.cn

传真/Fax : 020-86943773 网址/Website : www.yajiang.cn

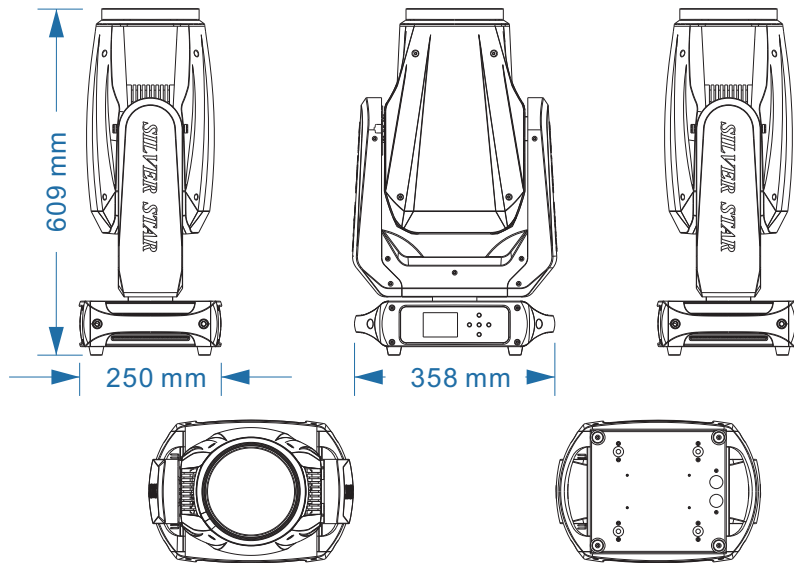
— Since 1985 —

RD-SS662-SM-01(SS-1)

# 1 Product Introduction

## 1.1 Specification

Product Code	SS662SC
Dimension	358 × 250 × 609(mm)
Weight	19KG
Rated Power	320W
Input Voltage	AC100~240V
Frequency Range	50/60Hz
Ambient Temperature	0°C~45°C
Beam Angle	3°~35°
Control Model	DMX512/RDM



BASIC (15CH)	STANDARD (18CH)	Value	Function
		071-080	FAN NORMAL
		081-090	FAN FAST
		091-100	FAN AUTO
		101-110	DIM4
		111-120	DIM3
		121-130	DIM2
		131-140	DIM1
		141-150	DIM0
		151-160	1200Hz
		161-170	2400Hz
		171-180	4000Hz
		181-190	6000Hz
		191-200	25000Hz
		201-210	ALL RESET
		211-220	XY RESET
		221-230	COLOR SYSTEM RESET
		231-240	GOBO RESET
		241-250	FOCUSZOOM\FROST\PISM RESET
		251-255	NO FUNCTION

BASIC (15CH)	STANDARD (18CH)	Value	Function
		202–228	19 METER
		229–255	21 METER
CH.12	CH.14	0–255	MANUAL FOCUS
CH.13	CH.15	0–255	DIMMER
	CH.16	0–255	DIMMER FINE
		<b>STROBE</b>	
		0–9	NO FUNCTION
		10–99	STROBE ( FROM SLOD TO FAST )
CH.14	CH.17	100–109	NO FUNCTION
		110–179	LIGHTNING STROBE
		180–189	NO FUNCTION
		190–255	RANDOM SROBE
		<b>CONTROL</b>	
		000–010	NO FUNCTION
		011–020	PAN/TILT BLACK ACTIVATED
		021–030	PAN/TILT BLACK DEACTIVATED
		031–040	PAN INVERT
		041–050	TILT INVERT
		051–060	PAN/TILT INVERT OFF
CH.15	CH.18	061–070	FAN SLOW

## 1.2 Safety warning

### IMPORTANT

Always read the user manual before operation.  
Please confirm that the power supply stated on the product is the same as the mains power supply in your area.

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- Do not stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

### ATTENTION



- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.



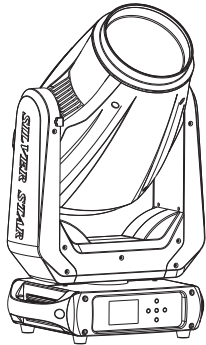
**Caution, risk of electric shock**  
The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

## 2 Installation

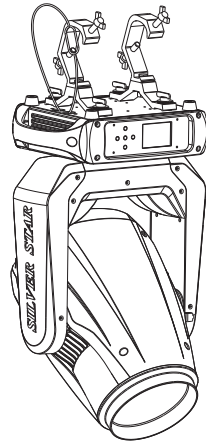
### 2.1 Mounting

The fixture can be mounted in any position.  
Always ensure that mounting surface can withstand 10 times the weight of the fixture.

Always use a safety cable when mounting the fixture in any elevated position.



**UPRIGHT**

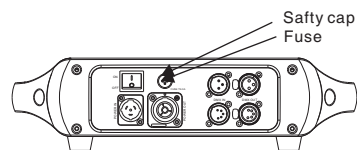


**HANGING**

**Important safety note!!**  
Always use a safety cable when installing this unit!!  
Be sure that the safety cable is connected to a solid load-bearing structure.

### 2.2 Fuse replacement

- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



BASIC (15CH)	STANDARD (18CH)	Value	Function
		171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% → 1)
		211-215	STOP
		216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
		<b>PRISM</b>	
		0-10	WHITE
		11-145	PRISM INSERT AND ADJUST THE ANGLE (0 → 360° )
CH.9	CH.11	146-150	STOP
		151-200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100% → 1)
		201-205	STOP ROTATION
		206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 → 100%)
CH.10	CH.12	0-255	ZOOM
		<b>AUTO FOCUS</b>	
		0-12	NO FUNCTION
		13-39	5 METER
		40-66	7 METER
		67-93	9 METER
		94-120	11 METER
		121-147	13 METER
CH.11	CH.13	148-174	15 METER
		175-201	17 METER

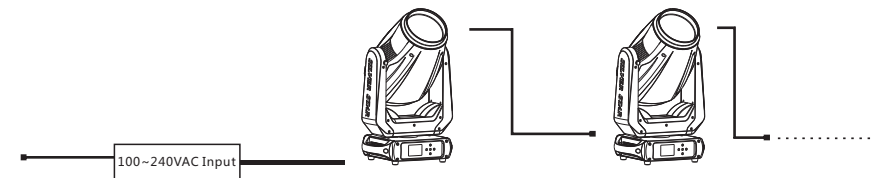
BASIC (15CH)	STANDARD (18CH)	Value	Function
		041-046	GOBO 6
		047-052	GOBO 7
		053-058	GOBO 8
		059-066	ROTATING GOBO 1 SHAKE (SPEED 1 → 100%)
		067-074	ROTATING GOBO 2 SHAKE (SPEED 1 → 100%)
		075-082	ROTATING GOBO 3 SHAKE (SPEED 1 → 100%)
		083-090	ROTATING GOBO 4 SHAKE (SPEED 1 → 100%)
		091-098	ROTATING GOBO 5 SHAKE (SPEED 1 → 100%)
		099-106	ROTATING GOBO 6 SHAKE (SPEED 1 → 100%)
		107-114	ROTATING GOBO 7 SHAKE (SPEED 1 → 100%)
		115-122	ROTATING GOBO 7 SHAKE (SPEED 1 → 100%)
		123-127	WHITE
		128-190	ROTATING GOBO FLOWING WATER EFFECT (SPEED 100 → 1%)
		191-192	STOP WATER EFFECT
		193-255	ROTATING GOBO FLOWING WATER EFFECT (SPEED 1 → 100%)
		<b>GOBO ROTATING</b>	
		0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360° )
		121-125	STOP
		126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
CH.8	CH.10	166-170	STOP

## 2.3 Power connections

This product uses input and output power cable is 1.5 square mm copper wire  
Note:

If the signal cable is over 60m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

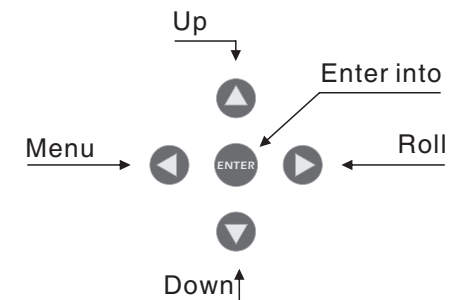
This product provides for the use of input power and signal cables are three-core, the connection diagram is as follows



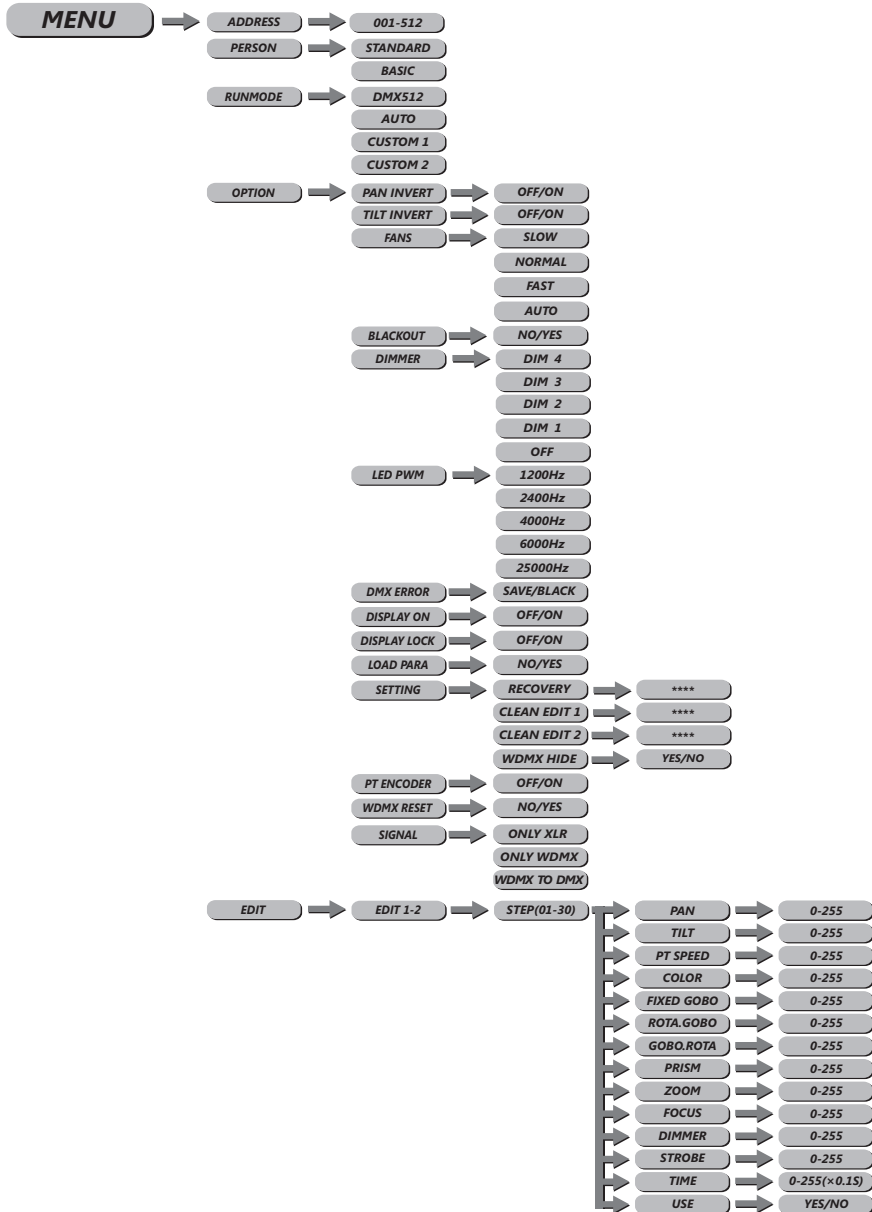
- When using this product to connect 220V AC, the number of tandem fixtures must not exceed eight.
- When using this product to connect 110V AC, the number of tandem fixtures must not exceed four.

## 3 Display panel operation

### 3.1 Display operation

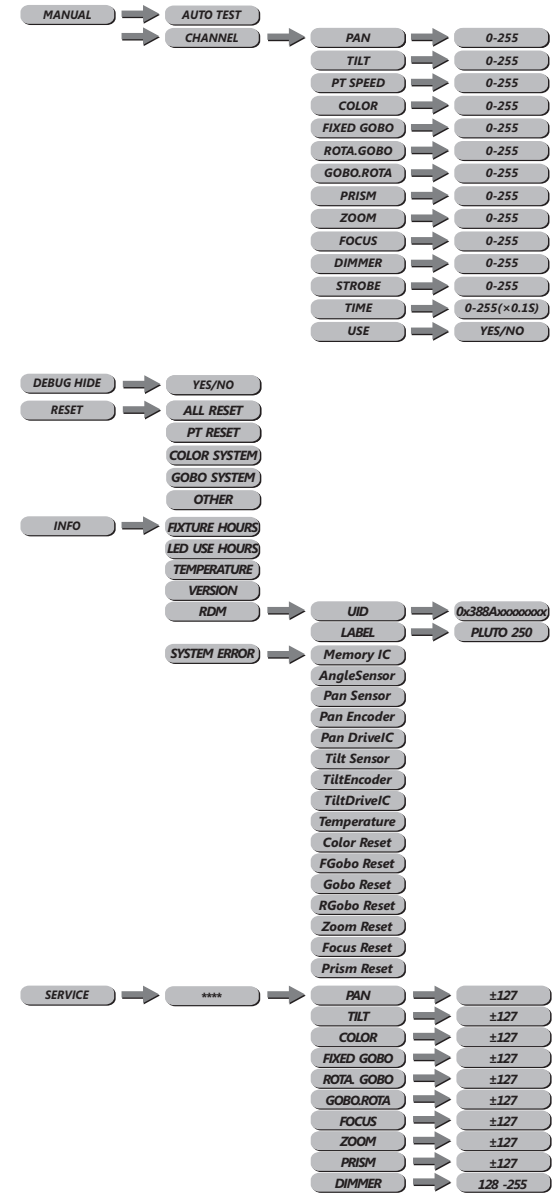


### 3.2 Menu



BASIC (15CH)	STANDARD (18CH)	Value	Function
		086-090	FIXED GOBO WHEEL 4 SHAKE (SPEED 1 → 100%)
		091-095	FIXED GOBO WHEEL 5 SHAKE (SPEED 1 → 100%)
		096-100	FIXED GOBO WHEEL 6 SHAKE (SPEED 1 → 100%)
		101-105	FIXED GOBO WHEEL 7 SHAKE (SPEED 1 → 100%)
		106-110	FIXED GOBO WHEEL 8 SHAKE (SPEED 1 → 100%)
		111-115	FIXED GOBO WHEEL 9 SHAKE (SPEED 1 → 100%)
		116-120	FIXED GOBO WHEEL 10 SHAKE (SPEED 1 → 100%)
		121-125	FIXED GOBO WHEEL 11 SHAKE (SPEED 1 → 100%)
		126-130	FIXED GOBO WHEEL 12 SHAKE (SPEED 1 → 100%)
		131-137	WHITE
		138-195	STATIC GOBO JUMPING WATER EFFECT (SPEED 100 → 1%)
		196-197	STOP WATER EFFECT
		198-255	STATIC GOBO FLOWING WATER EFFECT (SPEED 1 → 100%)
		<b>ROTATING GOBO</b>	
		000-010	WHITE
		011-016	GOBO 1
		017-022	GOBO 2
		023-028	GOBO 3
		029-034	GOBO 4
CH.7	CH.9	035-040	GOBO 5

BASIC (15CH)	STANDARD (18CH)	Value	Function
		223-224	STOP
		225-255	COLOR WHELL RAINBOW EFFECT(SPEED 1->100%)
CH.5	CH.7	000-255	COLOR WHIELL FINE
		<b>FIXED GOBO WHEEL</b>	
		000-010	WHITE
		011-015	FIXED GOBO WHEEL 1
		016-020	FIXED GOBO WHEEL 2
		021-025	FIXED GOBO WHEEL 3
		026-030	FIXED GOBO WHEEL 4
		031-035	FIXED GOBO WHEEL 5
		036-040	FIXED GOBO WHEEL 6
		041-045	FIXED GOBO WHEEL 7
		046-050	FIXED GOBO WHEEL 8
		051-055	FIXED GOBO WHEEL 9
		056-060	FIXED GOBO WHEEL 10
		061-065	FIXED GOBO WHEEL 11
		066-070	FIXED GOBO WHEEL 12
		071-075	FIXED GOBO WHEEL 1 SHAKE (SPEED 1 → 100%)
CH.6	CH.8	076-080	FIXED GOBO WHEEL 2 SHAKE (SPEED 1 → 100%)
		081-085	FIXED GOBO WHEEL 3 SHAKE (SPEED 1 → 100%)





### 3.3 DMX Address



- Enter the **【DMX】** mode to set the DMX address.
- Enter Up/Down select **【1~512】** address.
- Enter **【MENU】** return.

### 3.4 Personality(Person)



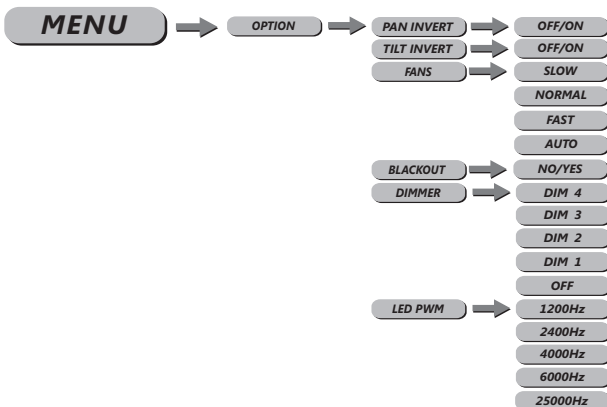
- Enter the **【PERSON】** mode to select DMX mode: **【STANDRAD】** , **【BASIC】** .

### 3.5 Runmode



- **【RUNMODE】** menu, select required run mode, there are six modes inside: **【DMX512】** DMX512 mode, **【AUTO】** auto run mode, **【CUSTOM1】** customer self-editing scene mode 1, **【CUSTOM2】** customer self-editing scene mode 2 press Down/Up select mode.
- press **【ENTER】** accept, press **【MENU】** return.

### 3.6 Performance(Option)



## 4 Using a DMX512 Controller

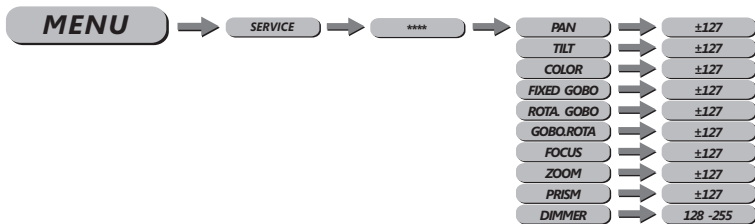
### 4.1 Channel Assignment

Note: this product have two DMX512 channel configuration: **【STANDARD】** , **【BASIC】** .

BASIC (15CH)	STANDARD (18CH)	Value	Function
CH.1	CH.1	000-255	PAN ( 0-540° )
	CH.2	000-255	PAN FINE ( FINE CONTROL OF PAN MOVEMENT 0-3° )
CH.2	CH.3	000-255	TITL ( 0-270° )
	CH.4	000-255	TILT FINE ( FINE CONTROL OF TILT MOVEMENT 0-3° )
CH.3	CH.5	000-255	PAN/TILT SPEED ( FROM FAST TO SLOW )
		<b>COLOR WHELL</b>	
		000-007	WHITE
		008-014	COLOR 1
		015-021	COLOR 2
		022-028	COLOR 3
		029-035	COLOR 4
		036-042	COLOR 5
		043-049	COLOR 6
		050-056	COLOR 7
		057-063	COLOR 8
		064-191	COLOR WHELL 0-360°
		192-222	COLOR WHELL RAINBOW EFFECT(SPEED 100%→1)

- **【TEMPERATURE】** is led temperature.
- **【VERSION】** is software versions;
- **【NETWORK PARA】** check network parameter;
- **【RDM】** check fixture's ID;
- **【SYSTEM ERROR】** system information error: Memory IC, Angle Sensor, Pan Sensor, Pan Encoder, Pan Drive IC, Tilt Sensor, Tilt Encoder, Tilt Drive IC, Temperature, Color Reset, FGobo Reset, Gobo Reset, RGobo Reset, Zoom Reset, Focus Reset, Prism Reset.

### 3.10 Service



- Press **【ENTER】** into **【SERVICE】** enter password "up down up down" to enter the options page.
- **【PAN】** Pan position fine adjustment. push up and down buttons adjust  $\pm 127$  value.
- **【TILT】** tilt position fine adjustment. push up and down buttons adjust  $\pm 127$  value.
- **【COLOR】** color position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【FIXED GOBO】** fix gobo position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【ROTA. GOBO】** rotation gobo position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【GOBO.ROTA】** gobo self-rotation position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【FOCUS】** focus position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【ZOOM】** zoom position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【PRISM】** prism position fine adjustment. Push up and down buttons adjust  $\pm 127$  value.
- **【DIMMER】** is a dimming setting that limits the maximum brightness, range of values is 128~255 the lower the value, the higher the limit, 255 is unlimited.



- Enter **【OPTION】** into the machine set.
- **【PAN INVERT】** menu, select **【NORMAL】** for normal direction, select **【INVERT】** for inverted of the PAN direction.
- **【FANS】** menu, select **【Slow/Norm/Fast/Auto】** as required fan speed.
- Choose **【OFF】** and **【ON】** to close and open the **【BLACKOUT】** mode.
- **【DIMMER】** menu for selection of **【DIM1/DIM2/DIM3/DIM4/OFF】** special dimming curves.
- **【LED PWM】** is PWM refresh rate bottom, press UP/DOWN to choose <1200Hz>, <2000Hz>, <2400Hz>, <6000Hz>, <25000Hz>; Attention: the gray level of dimming will be reduced as the refresh rate increases.
- **【DMX ERROR】** menu, select **【SAVE】** to maintain last command in case of DMX error or for blackout.
- Choose **【OFF】** and **【ON】** to close and open the display open & close mode in menu **【DISPLAY】**
- Choose **【OFF】** and **【ON】** to close and open the screen lock mode in menu **【DISPLAY LOCK】**
- **【LOAD PARA】** is parameter upload Settings, enter **【NO】** do not upload, enter **【YES】** upload.
- **【SETTING】** maintain settings, select **【RECOVERY】** is restore default factory settings. press **【ENTER】** enter password then press **【ENTER】**, if your password correct there will display **【OK】**.  
**【CLEAN EDIT1】** clean customer self-editing scene 1, press **【ENTER】** confirm.  
**【CLEAN EDIT2】** clean customer self-editing scene 2, press **【ENTER】** confirm.  
**【WDMX HIDE】** hide wireless mode, WDMX RESET and SIGNAL hide and the default is wired mode only.

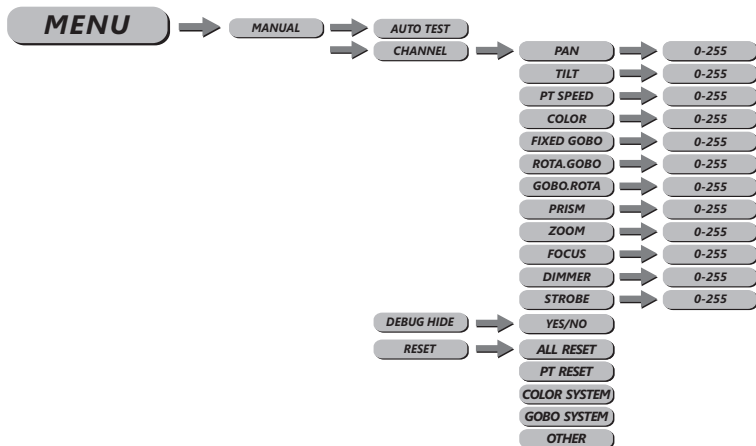
- **【PT ENCODER】** XY encoderswitch, **【OFF】** is close, **【ON】** is open. **【WDMX RESET】** wireless resetting, use for patch wireless signal, **【YES】** is clear the receiver's message, press again patch wireless signal, **【No】** do not clear the receiver's message.
- **【SIGNAL】** is signal setting, ONLY XLR is wire only, ONLY WDMX is wireless only, WDMX TO DMX is wireless to wired.

### 3.7 Edit



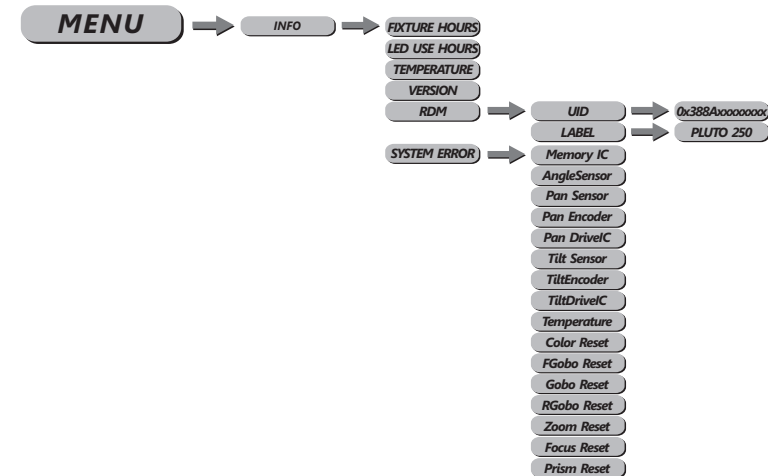
- Enter the **【EDIT】** mode to edit the custom programs by adjusting the value of **【PAN】**, **【TILT】**, **【PT SPEED】**, **【COLOR】**, **【FIXED GOBO】**, **【ROTA.GOBO】**, **【GOBO.ROTA】**, **【PRISM】**, **【ZOOM】**, **【FOCUS】**, **【DIMMER】**, **【STROBE】**, **【TIME】**. Enter **【Use】** and select **【Yes】** to run the steps user need.

### 3.8 Manual control mode



- Press **【ENTER】** into **【AUTOTEST】** at **【MENU】**.
- **【PAN】** pan set, **【TILT】** tilt set, **【PT SPEED】** set the pan & tilt speed, **【COLOR】** color temperature, **【FIXED GOBO】** set the static gobo wheel **【ROTA.GOBO】** set the rotating gobo wheel, **【GOBO.ROTA】** set the autogiration of gobo wheel, **【PRISM】** set the prism, **【ZOOM】** set the zoom of fixture, **【FOCUS】** set the focusing, **【DIMMER】** set the dimmer, **【STROBE】** set the strobe, push the UP/DOWN to set the value **【000~255】**.
- **【DEBUG HIDE】** is the factory testing mode. All stepper motors are not controlled by signal. It only works again after the reset. enter No out、enter Yes in.
- **【RESET】** set the reset:  
**【ALL RESET】** menu, select Yes/No to carry out all reset.  
**【PT RESET】** menu, select Yes/No to carry out PAN/TILT reset.  
**【COLOR SYSTEM】** color wheel、CMY resetting, press No do not resetting, press Yes resetting.  
**【GOBO SYSTEM】** fix gobo resetting. press No do not resetting, press Yes resetting.  
**【OTHER】** focus、zoom、prism、iris, press No do not resetting, press Yes resetting.

### 3.9 Info



- Press **【ENTER】** into **【INFO】** check information, press up and down
- **【FIXTURE HOURS】** is hours of fixture use;
- **【LED USE HOURS】** is LED use time;