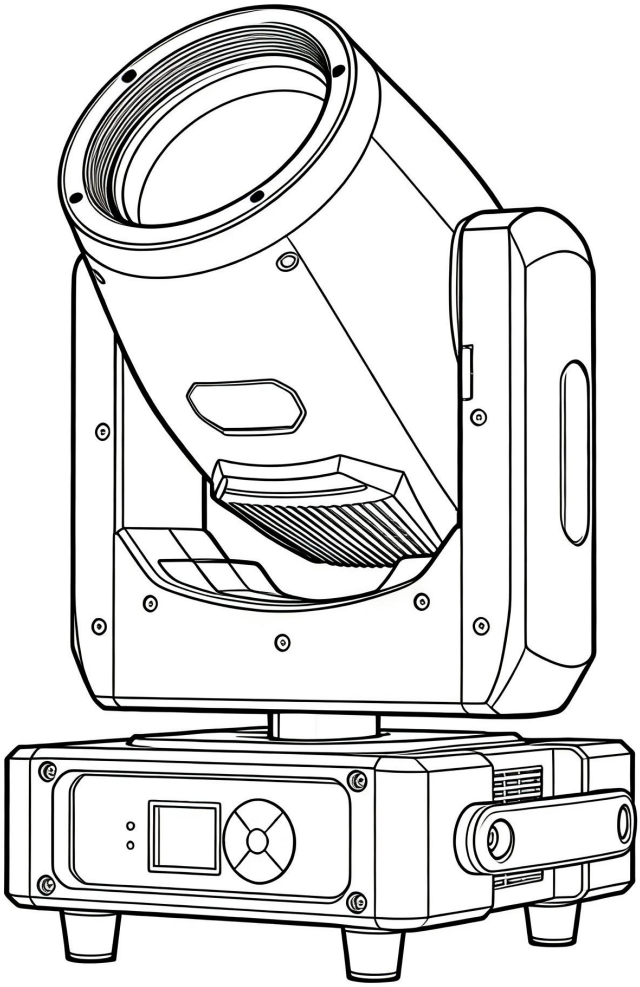
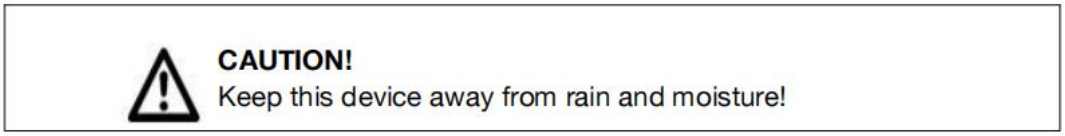
Mini Beam 250

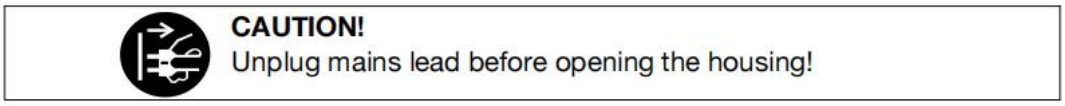


USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!
We are confident that our excellent products and service can satisfy you.
For your own safety, please read this user manual carefully before installing the device.
In order to install, operate, and maintain the lighting safety correctly.
We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly





Every person involved with the installation, operation and maintenance of this device has to:
-be qualified
-follow carefully the instructions of this manual

INTRODUCTION:

Thank you for having chosen this professional moving head.
You will see you have acquired a powerful and versatile device.
Unpack the device. Inside the carton box you should find:
1. One power in cable
2. One 3-Pin DMX cable
3. Two folding clamps
4. One safety cable
5. One English user manual
（Flight case is optional, please contact your dealer）
Please check carefully that there is no damage caused by transportation.
Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc.
This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6 th page of this manual.
Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.
Do not shake the device. Avoid brute force when installing or operating the device.
While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output

from the projector and the illuminated surface must be more than 0,5 meter.
If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.
Please use the original packaging if the device is to be transported.
For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

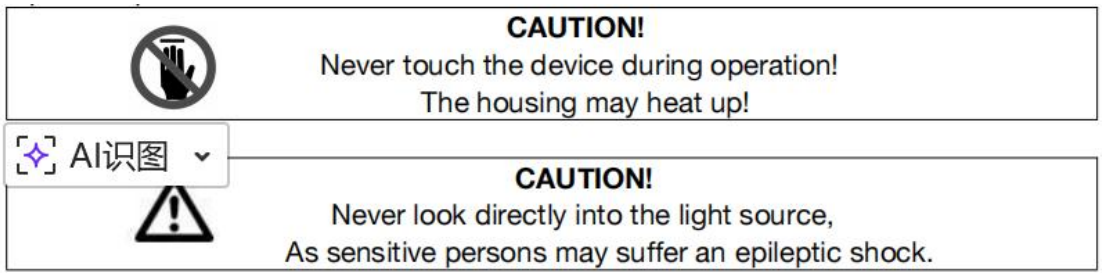
SAFETY INSTRUCTIONS



CAUTION!
Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.
1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.
2. Always mount this unit in safe and stable matter.
The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.
▲
Important:
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.
If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.
This device falls under protection-classI. Therefore it is essential that the device be earthed.
The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.
Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.
Please don't project the beam onto combustible substances.
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

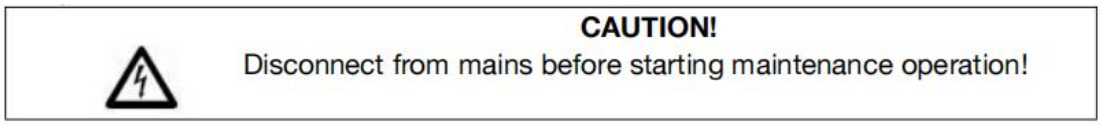


Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection
1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



In order to make the lights in good condition and extend the life time, we

suggest a regular cleaning to the lights.
1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.
We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

TECHNICAL PARAMETERS

Power supply

Power Input: 100-240V，50/60Hz

Power Dissipation：350W

Light source

lamp: MSD 230w/250w (life:2200 hours Color temperature: 8000K)

CONTROL AND PROGRAMMING

Channel mode:16 DMX512 Channel

Pan scan：540°(16bit) Electric correction

Tilt scan：270° (16bit) Electric correction

Amazing dot matix, four tact switch, 180° turning show

Effect SECTION

Color wheel: one color wheel, 14 kinds of color chips in one color wheel

Gobo: 14 gobos

Effect Wheel: Rotation 8+16+24 prism, effect move , frost

0-100% mechanical dimming, mechanical dimming and free dimming available.

strobe macro control available.

Lens optical system achanical fouce .beam angle 2°

Over heat protection

BODY

IP level :IP20

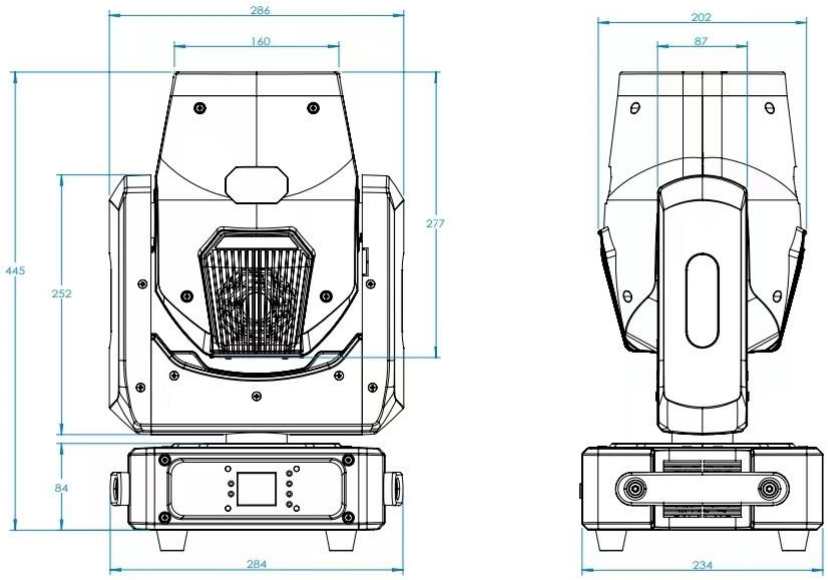
Magnetic ballast and AC/Dc power supply

Gross weight：12kg

Packing Size: 50X34.5X36.5CM

Net weight：10.8KG

FIXTURE SIZE(MM)



Cable connection（DMX）

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24AWG,low capacity. Do not use microphone cable or other cable withcharacteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

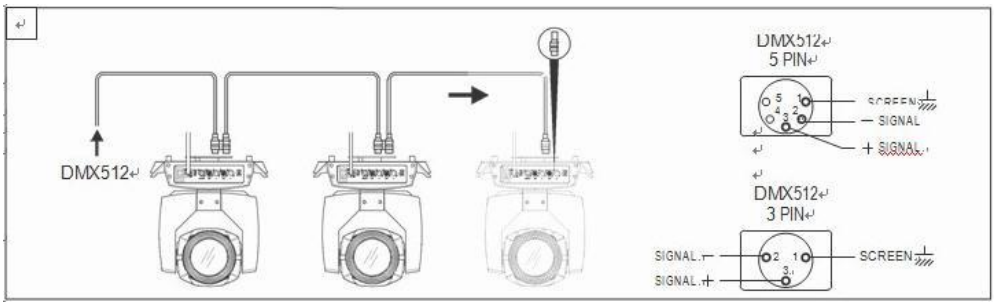


Figure 1 DMX Cable connection

Rigging (Optional)

This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps is needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

- Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.
- Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.
- Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.
- Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.
- Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.

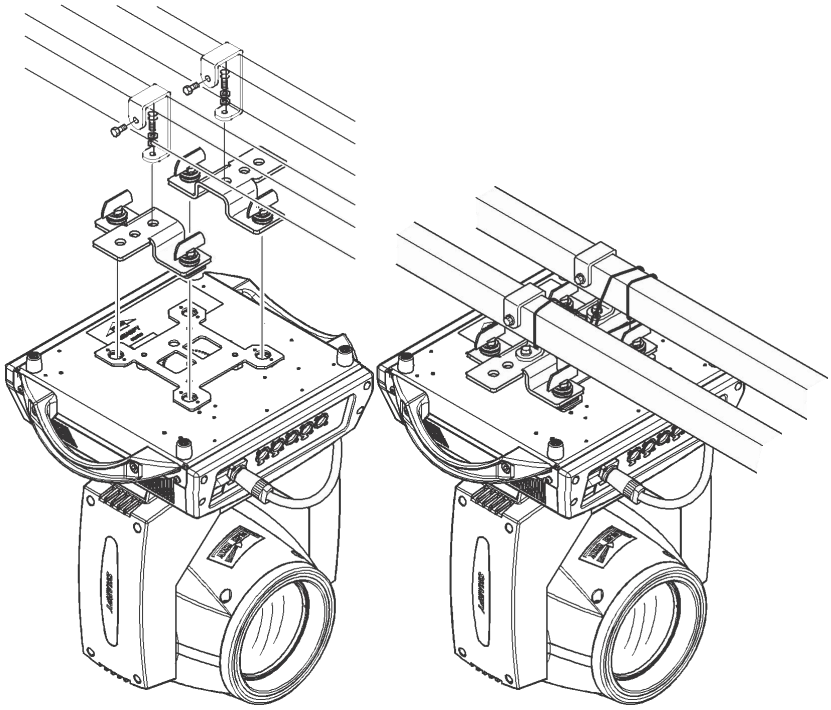


Figure 2 Installation

Chapter 2 Panel operation

Brief

The light panel diagram show as Figure 3, Left area is TFT Displayer, support touch, and right area is KEY, both of touch and KEY can operate light and setting.

Display & operation just like 'Android operation system', touch the item will set or modify setting.

Note: Prevent damage the touch or TFT displayer, Can not use sharp objects chick displayer.

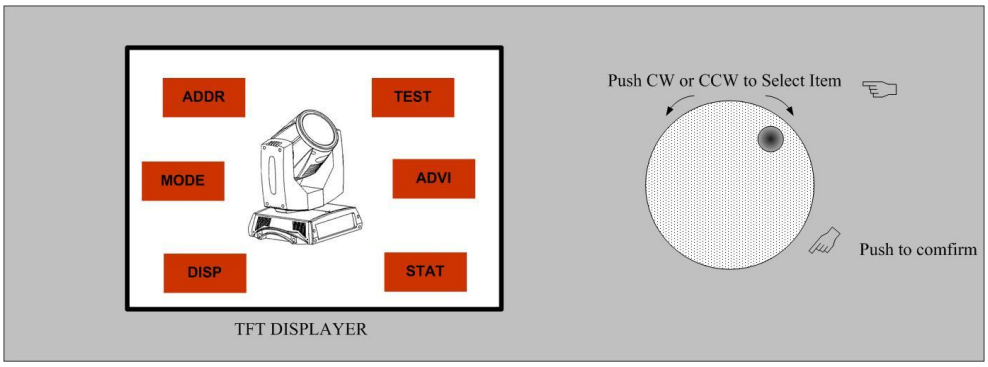


Figure 3 Panel diagram

Operation

Operate light with touch or KEY

- The left area is TFT Displayer and touch, chick item or value with finger will to complete operation of set light setting(parameters) or view light state.
- The area on the right hand side is 4 KEY, As auxiliary input interface, if disable touch function,, the KEYr can been choose to set the parameter.

Parameter value setting

When the selected item is value need to been modified, the dialog shown in Figure 4 will popup.

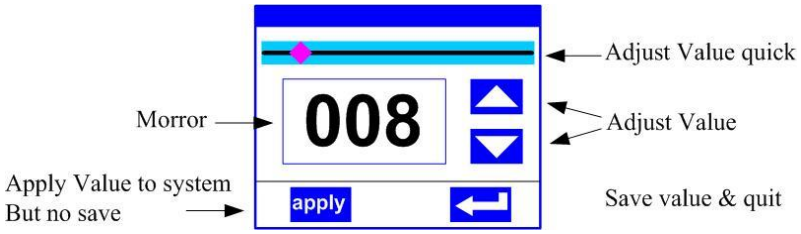


Figure 4 Dialog of value setting

- **Modify value：** Can quickly modify value via pull the slider to the desired position, or click the button of ‘up’ or ‘down’ whit finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.
- **Apply value：** When Value had been modified, Then press the bottom of ‘apply’ in the left corner to apply to the light, but hav’t saved；
- **Save Value：** Any time, click on the lower right corner of the "OK" button, the setting will been saved into internal memory.

Boolean parameter setting

- when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by chick corresponding item, the setting will been saved right now.
- When the parameter is a key item, chick corresponding item, a dialog shown in Figure 5 will been popup ask for the confirm. Chick ‘sure’ to confirm.

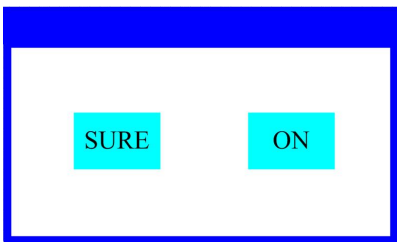


Figure 5 Dialog of confirm

Sub Menu（Parameter）

Chick item of main menu, enter corresponding sub menu, shown in Figure 6, total 6 sub menu, includes class of parameter and status:

- ADDRESS：Set light DMX address.
- WORKMOD：Set light work mode, master or slave mode when in auto run mode.
- DISPLAY： Set display parameter, eg. select language.
- TEST：Used for test light, modify DMX channel data to test function， the corresponding function of reference channel function table.
- ADVANCE：Set light running parameter.
- STATUS：view light current status.



Figure 6 Parameter menu

Operation and parameter instruction

Via following operation, enter sub menu(parameter menu) shown in Figure 6

- In main menu, chick 1/6 function button into corresponding parameter menu.
- In sub menu(page), chick main item on the left side of displayer, can shift to corresponding sub menu(page) quickly.

ADDR--> Address: Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't is not greater than (512- channels quantity), otherwise the light will not been controlled. Following is the operation:

Enter the page of DMX address, as shown in Figure 7, click the blank area in right side of display will pop-up diglog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

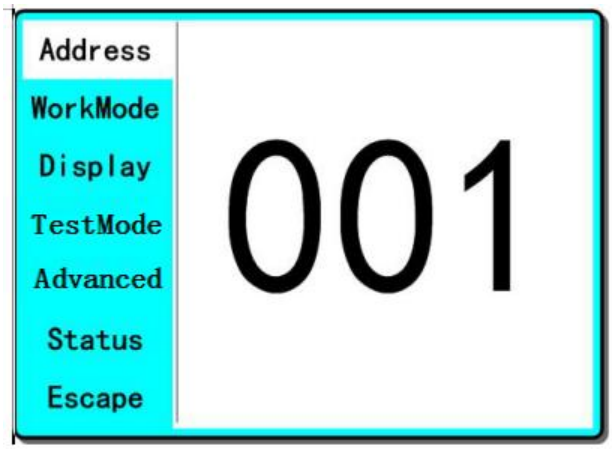


Figure 7 page of DMX Address

MODE--> WorkMode: Set Light work mode

Enter the page of 'WorkMode' as shown in Figure 8 and modify setting. Can set light work mode, control lamp and DMX channel mode.

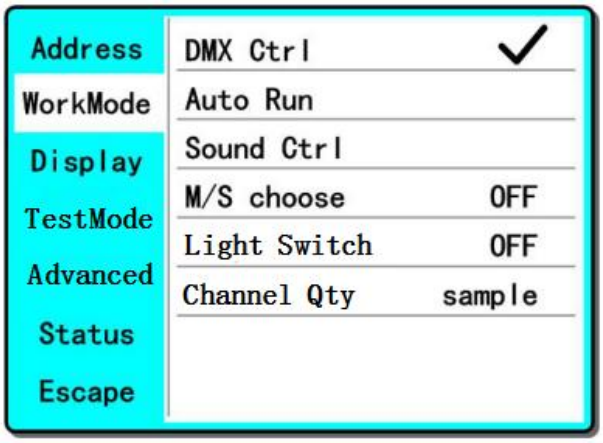


Figure 8 page of work mode

- **DMX Ctrl**: Choose to set DMX Mode,
- **Auto Run**: Choose to set Auto Mode,
- **Sound Ctrl**: Choose to set Sound Mode,
- **M/S Choose:**Available just in 'AUTO RUN' or 'SOUND Ctrl' mode.
  ON--> Master. (Data will be send to other slave lamp immediately.)
  OFF--> Slaver.(NOT send data to other lamp via DMX Cable).(**Default**)
- **Light Switch:**
  ON--> Turn on the light,
  OFF--> Turn off the light.
- **Channel Qty:** Light support 2 DMX Channel mode: sample or extend。
  Simple --> 16CH.(**Default**)
  Expand--> 20CH(or null).

DISP-->DISPLAY: Set display

Light support 2 language, rotation display， Enter page as shown in Figure9 to set parameter following:

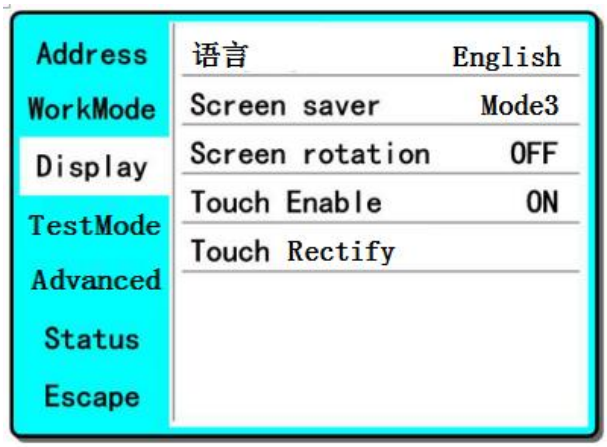


Figure9 page of display

- **Language**: English / 中文.
- **Screen Saver:** when panel is idle(these is no operation in 10 second), displayer will enter saver status.

  OFF--> No screen saver.

  Mode1--> Power-saving mode, turn off the display.

  Mode2--> Displays the current address.

  Mode3--> Displays the icon and the current working mode.(**Default**)
- **Screen Rotion: To turning display.**

  ON--> Normal display.(**Default**)

  OFF--> 180° turning display.
- **Touch enable：** Disable or enable touch function,.

  ON--> Enable touch function.(**Default**)

  OFF--> Dosable touch function.
- **Touch adjust：** Adjust touch function. Normally, not enter this item.

TEST--> TestMode

Enter the page as shown in Figure 10, Light will into test mode, in this mode, the light does not receive the data for DMX controller.:

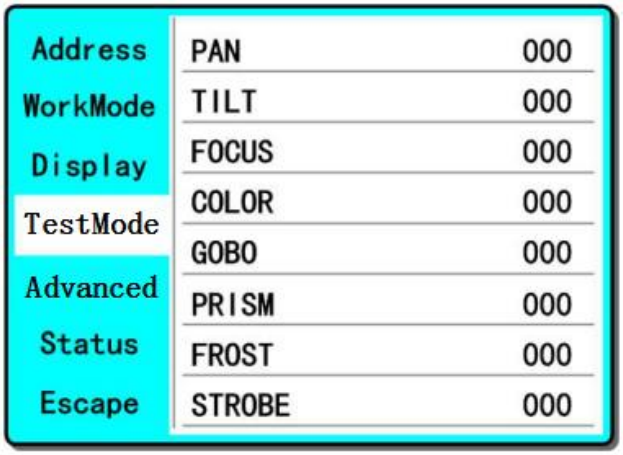


Figure 10 page of Test

- **PAN:** range for 0 to 255;
- **TILT:** range for 0 to 255;
- **FOCUS:** range for 0 to 255;
- **COLOR:** range for 0 to 255;

- **GOBO:** range for 0 to 255;
- **PRISM:** range for 0 to 255;
- **FROST:** range for 0 to 255;;
- **STROBE:** range for 0 to 255;

ADVA-->Advanced: Set light run parameter

Enter the page as shown in Figure 10, set the parameter of light:

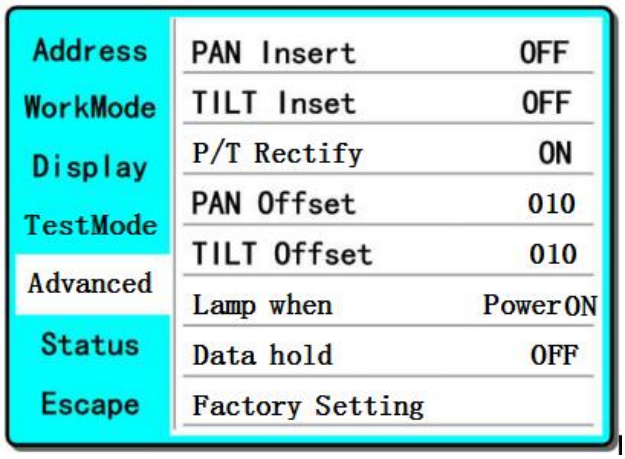


Figure 11 page of run parameter

- **Pan Invert**: **Reverse PAN move**
  OFF--> Pan Normal move.(**Default**)
  ON--> Reverse PAN move.
- **Tilt Invert: Reverse TILT move**
  OFF--> Tilt Normal move.(**Default**)
  ON--> Reverse Tilt move.
- **P/T Rectify: Disable or enable position rectify function.**
  OFF--> Disable P/T rectify
  ON--> Enable P/T rectify-(**Default**)
- **Pan Offset:** Set PAN original position. **Default: 10**
- **Tilt Offset:** Set TILT original position. **Default: 10**
- **Lamp when:**
  PowerON--> Turn on the lamp when power on.(**Default**)
  RstDone--> Turn on the lamp after reset.
  Manual--> Manually turn on the lamp.
- **Data hold:**
  OFF--> When no DMX signal,return to middle position.(**Default**)
  ON--> When no DMX signal,stop in the final position.
- **Factory Setting:** Restore all parameter to factory setting.

STAT-->Status: View status

Enter the page as shown in Figure 12:

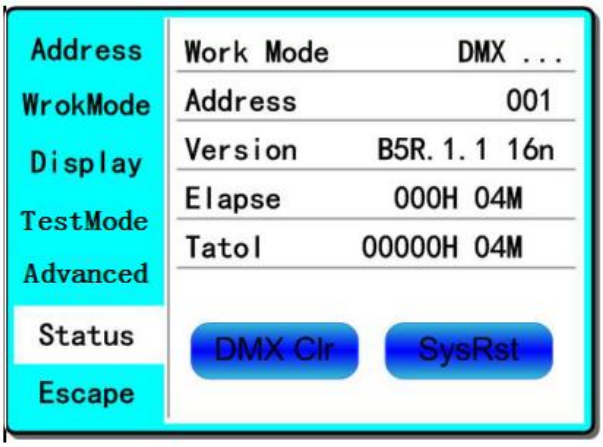


Figure 12 page of status

- **Work Mode:** Show the current working mode.
- **Address:** Show the current address.
- **Version:** Show the version of the lamp.
- **Elapse:** Working hours after turn on.
- **Tatol:** Cumulative hours of operation



When <Data hold> set <ON>,click to clear DMX data, and make the lamp return to themiddle position.



Click to reset.

Chapter 3 Channel description

Channel table

Table 1 Channel brief

Channel	Name	Data	Introduce
1	**Color**	0-4	White
		5-9	White+Color1
		10-14	Color1
		15-19	Color1+Color2
		20-24	Color2
		25-29	Color2+Color3
		30-34	Color3
		35-39	Color3+Color4
		40-44	Color4
		45-49	Color4+Color5
		50-54	Color5
		55-59	Color5+Color6
		60-64	Color6
		65-69	Color6+Color7
		70-74	Color7
		75-79	Color7+Color8
		80-84	Color8
		85-89	Color8+Color9
		90-94	Color9
		95-99	Color9+Color10
		100-104	Color10
		105-109	Color10~Color11
		110-114	Color11
		115-119	Color11+Color12
		120-124	Color12
		125-129	Color12+Color13
		130-134	Color13
		135-139	Color13+Color14
		140-144	Color14
		145-149	Color14+White
		150-200	Forwards rainbow from fast to slow
		201-255	Backwards rainbow from slow to fast
2	**Strobe**	0-3	Close

		4-103	Fadeout slow to fast
		104-107	Open
		108-207	Free Strobe slow to fast
		208-212	Open
		213-251	Pulse Strobe slow to fast
		252-255	Open
3	**Dimmer**	0~255	Dimmer intensity from 0% to 100%
4	**Gobo**	0-4	White
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-125	Forwards rainbow from fast to slow
		126-130	Stop
		131-190	Backwards rainbow from slow to fast
		191-195	Gobo1 Shake，Slow to fast
		196-200	Gobo2 Shake，Slow to fast
		201-205	Gobo3 Shake，Slow to fast
		206-210	Gobo4 Shake，Slow to fast
		216-220	Gobo6 Shake，Slow to fast
		221-225	Gobo7 Shake，Slow to fast
		226-230	Gobo8 Shake，Slow to fast
		231-235	Gobo9 Shake，Slow to fast
		236-240	Gobo10 Shake，Slow to fast
		241-245	Gobo11 Shake，Slow to fast
		246-250	Gobo12 Shake，Slow to fast
		251-255	Gobo13 Shake，Slow to fast
5	**Prism**	0-127	Close Prism
		128-255	Insert Prism
6	**Prism.Rot**	0-127	0~400 degree
		128-187	Forwards rainbow from fast to slow

		188-195	Stop
		196-255	Backwards rainbow from slow to fast
7	**Colorful**	0-127	
		128-255	Insert colorful
8	**Frost**	0~127	
		128~255	Insert frost
9	**Zoom**	0~255	Zoom Large to small
10	**PAN**	0~255	Pan movement by 540
11	**PAN fine**	0~255	Tilt movement by 270
12	**TILT**	0~255	Fine control of pan movement
13	**TILT fine**	0~255	Fine control of tilt movement
14	**Macro Function**	0~255	Close frost
15	**Reset**	100-105	Lamp Off (Over 3 seconds)
		200-205	Lamp on（Over 3 seconds）
		210-215	Reset XY(over 3 seconds)
		220-235	Reset effect moto(over 3 seconds)
		240-255	Reset all(over 3 seconds)
16	**lamp open**	200-205	open
		26-100	shut

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning
and operating instructions as stated. Or we aren't in charge of any result by misusing.
Any damage resulting by misuse is not within the Company's warranty.
Any fault or problem caused by neglecting the manual is also not in the charge of dealers.
Errors and omissions for every information given in this manual excepted.
All information is subject to change without prior notice.

Thank you again for your patronage!
We will be offering sincere service as always,
Wish you have a good lighting journey!