USER MANUAL

MODEL:B300BSW

Big Topper®

Please read this manual before using the product

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Thanks for choosing the moving head beam light produced by our company, this product is a classic beam light, enduring, very excellent humanization and industrial design of the perfect combination.small appearance, beautiful and smooth.

The light body is designed with aluminum alloy and high-temperature flame-retardant engineering plastics, which has a good heat dissipation effect:The transmission mechanism adopts electronic positioning technology, the light body adopts ultra-quiet fan for heat dissipation, the product fully complies with international standard DMX512 signal control, strong penetration, makes the stage performance more Colorful and Colorful.

It's suitable for various stage performances, weddings, parties, and various engineering projects. The accessories of this product include lights, power cables, mounting brackets, instruction manuals.

In order to make you use the product faster and better, please read our user manual carefully, we are very serious and rigorous in the preparation of this manual, we hope to provide you with complete and reliable information, but it is inevitable that there are errors and omissions.

Please understand and sincerely welcome your criticism and correction.

Note

Due to the continuous improvement of our products, the information contained in this manual may change in the future, and we will not notify you of the changes. We reserve the right to change the specifications in the event of product improvements. The publisher of this manual is not responsible for the accuracy of the information in this manual, nor for the consequences of such information.

If you find any problems in the process of using this product, please call our service hotline in time to thank you for your support and trust!

Safety Notes

In order to ensure your safe and correct use of light, please read the following safety tips carefully before use to avoid unnecessary accidents.To malfunction and hurt.

1. Non-professionals, do not disassemble the light and the accessories in the light without authorization.
2. AC power supply: Check whether the local power supply meets the rated voltage requirements of the product.
3. The light is designed according to the type of electric shock protection. The

Product Warranty Card

Product Name :
Product Model :

End User
Company Name :
Address :
Contacts :
Telephone :

Product Name :
Product Model :

Vendors
Contacts :
Telephone :
Seal

Warranty Period:
This product is guaranteed for one year from the date of purchase.

Warranty Clauses:
1.Faults arising from the normal use of the product during the warranty period may be repaired free of charge by presenting the warranty card and purchase ticket (photocopy)according to the content of the warranty clause.

2. During the warranty period, the following conditions will be implemented to provide paid maintenance services.
(1)Failure to produce a valid warranty card.
(2)There are omissions, alterations and no sales names on the warranty card.
(3)Faults and damages caused by irresistibility.
(4)Faults and damages caused in transportation and handling.
(5)Failure or damage caused by failure to follow the instructions.
(6)Failure or damage caused by disassembling, repairing or refitting products without authorization of the manufacturer or non-professional personnel. Failure caused by using control series not approved by our factory or matched by our factory.
(7) Consumables - Our factory reserves the right of final interpretation of this warranty Cause.

Remarks:
The above blanks must be filled in and sealed by the end user and the sealed by the end user and the seller truthfully,otherwise the warranty will not be guaranteed.

Maintenance

Optical components should be cleaned gently, don't use disruptive solvent, otherwise it will damage the plastic or coated surface.

1. After the power off, cooled completely, then open the housing.
2. Blowing machine with a vacuum cleaner or pressure blower, gently blow away dust and floating objects.
3. Use odorless paper or cotton cloth soaked with water or distilled water to wipe particulate, do not rub surfaces, blow any floating object with a pressurized gas.
4. Dip cotton of the alcohol or unscented tissue paper to remove dustand residues, glass cleaner may also be used, but residues must be removed with distilled water, to the circle on each side, wipe from the Center, and then wiped dry with a soft cotton cloth.
5. Using a soft brush, cotton paper, air cleaners or stress on stomatal and hair dryers that the dust from the fan out. Excessive dust, smoke and damage caused by non-normal use, out of the scope of warranty.

Declare

The product is with good performance and complete package when it is delivered. The end-user of this product should follow all the above instructions and warnings. Any damage caused by misuse, malfunction and problem caused by ignoring the instructions are not included in the repair guarantees of the manufacturer or dealers.

light must be connect.ed to a power supply system with sufficient grounding, and the ground wire of the light must be connected to the ground wire of the power supply system. The power cord is overlapped with other conductors.
4. When installing and positioning the light, keep a minimum distance of 10 meters between any point on the surface of the light and any combustible or explosive material, and 2.5 meters away from the irradiated object. Please do not install the light directly on the surface of the inflammable material.
5. The ambient temperature used by the light: (-10 degrees + 40 degrees), the maximum surface temperature of the light is 80 degrees, and the light should be kept away from liquid substances and humid environments.
6. Before using the light, make sure that the light is well grounded, and do not install or remove any part of the light with electricity.
7. When installing light, the fixing screws must be tightened, and safety cables must be added, and checked regularly.
8. It is recommended that the continuous working time of light should not exceed 10 hours.
9. During use, if there is an abnormality in the light, stop using the light in time.
10. When the LED / lamp reach the rated service life, they should be replaced in time, otherwise the light will not be able to be used normally.
11. The rotating parts of the light and the pasting accessories must be checked regularly. If they are loose, they should be reinforced in time to prevent accidents.
12. The light are cooled by strong wind, which is easy to accumulate dust. It must be cleaned once a month, especially the cooling air vents. Otherwise, the dust will be blocked, resulting in poor heat dissipation and abnormal light.

Warnings

This product is only suitable for professional use, and does not apply to security for other purposes. After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible.

This product is only suitable for indoor, IP20 protection class. The lights should be kept dry to avoid the moisture, overheating or dusty environment. Prevent the lights come into contact with the water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp explode or shedding caused serious or fatal injury.

Need to read the manuals and instructions before power on or installation.

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Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment.

Please don't choose the item "factory default", or all the data will be missing, and the machine can use only by resetting.

Installation

1. Make sure there is no flammable or explosive subjects within min 1.5 meter nearby the installation.
2. Before installation, please check and make sure the power supply voltage meet request of the system.
3. Please check ventilation and fans or exhaust passages are cleared.
4. The equipment should be fixed firmly.
5. For security reasons, the appliance must be earthed.

Inspection

In order to use the product securely and properly, please read the manual before using and follow the instructions strictly to prevent personal safety trouble and product damage caused by misuse.

Take care of the product, check the possibility of the product damage caused by transportation and check all the listed items are present upon receipt of the product:

Beam Light*1; User Manual*1; Power Cord*1; Handle*2 .

Technical Specification

Light Source	300W LED
Rated Power	500W
Lifespan	50,000 Hours
Voltage	AC100-240V 50-60HZ
Control Mode	Auto/Sound/DMX/Master-slave
DMX Channel	16/20
Color Temperature	8000K
CRI	Ra≥75
Lumen Illumination	4M = 50,000lm
Movement Angle	16 bit precision scanning electronic error correction,

CH10	CH13	Gobo Rotation	0-127	0-360°
			128-190	Rotation reverse from fast to slow
			191-192	Stop
			193-255	Rotation forward from slow to fast
CH11	CH14	Prism	0-127	None
			128-255	Prism
CH12	CH15	Prism Rotation	0-127	0-360°
			128-187	Rotation forward from fast to slow
			188-195	Stop
			196-255	Rotation reverse from slow to fast
CH13	CH16	Frost	0-127	None
			128-255	Frost
CH14	CH17	Zoom	0-255	From big to small
CH15	CH18	Focus	0-255	From far to near
	CH19	Focus Fine Adjustment	0-255	
CH16	CH20	Reset	0-209	None
			210-215	Pan/Tilt motor reset after 3 seconds
			216-219	None
			220-235	Effect motor reset after 3 seconds
			236-239	None
			240-255	All reset after 3 seconds

			140-149	Gobo 4 shaking from slow to fast
			150-159	Gobo 5 shaking from slow to fast
			160-169	Gobo 6 shaking from slow to fast
			170-179	Gobo 7 shaking from slow to fast
			180-189	Gobo 8 shaking from slow to fast
			190-223	Rotation reverse from fast to slow
			224-255	Rotation forward from slow to fast
CH9	CH12	Rotation Glass Gobo	0-9	Blank
			10-19	Glass Gobo 1
			20-29	Glass Gobo 2
			30-39	Glass Gobo 3
			40-49	Glass Gobo 4
			50-59	Glass Gobo 5
			60-69	Glass Gobo 6
			70-79	Glass Gobo 7
			80-89	Glass Gobo 1 shaking from slow to fast
			90-99	Glass Gobo 2 shaking from slow to fast
			100-109	Glass Gobo 3 shaking from slow to fast
			110-119	Glass Gobo 4 shaking from slow to fast
			120-129	Glass Gobo 5 shaking from slow to fast
			130-139	Glass Gobo 6 shaking from slow to fast
			140-149	Glass Gobo 7 shaking from slow to fast
			150-200	Rotation forward from fast to slow
			201-255	Rotation reverse from slow to fast

	Pan 540° , Tilt 270°
Dimming	0~100% linear dimming
Focus	Linear focus , 4~50M
Frost	Independent frost effect, soft and natural light spot
Beam Angle	4~35°
Strobe Speed	0~30 T/S , adjustable speed
Color	9 + White , with half color effect
Fixed Gobo	5+Blank+ water wave effect, Prism
Rotated Gobo	7 Glass Gobo , each gobo can be bidirectional rotation independently
Prism	8 , can be rotated independently
Display	LCD
Cooling System	4 heat pipe radiators, 4 powerful fans
Features	With electronic temperature control overheat protection, overheat system failure electronic temperature control automatic power off protection
Work Temperature	-20~40°C
IP Grade	IP20

Menu Function / Setting

The Display Panel as following Pic.1, display the sub menu information, light source status and faults ect., it will display “ERR” if any fault information still not be checked.

Pic.1 Display Panel

Sub Menu Setting

Press the main menu to enter to the corresponding sub menu, included the specification and status:

ADDRESS: DMX address setting;

WORKMODE: Work mode setting;

DISPLAY:
Display specification setting, to exchange the language or set the display screen inverted ect.;

SCENE:
Enter to the scene editing mode, the lights will not receive the DMX controller data under this mode, the edited data will apply to the lights immediately, the selected DMX channel will decide the content for this interface, and the content and sequence are same as the DMX channel.

ADVANCED: Advanced specification setting;

STATUS: To check the current status for lights.

Function / Instruction
Enter to the setting interface, can choose the related specification setting interface with 6 options at the main menu.

1. **ADDR → Address: DMX Address Setting**

Enter to the DMX "Address" Setting as following Pic.2, then set the DMX address and channel mode ect., the menu setting optimized the address setting, the options for address code setting operation as follow:

Choose the previous light and next light, the lights will calculate the address code based on the current address code and channel value for quick setting;

Press the address code value, enter to the value edit window, can set any effective address code here, the lights will get the current channel value for

			50-54	Color 5
			55-59	Color 5 + Color 6
			60-64	Color 6
			65-69	Color 6 + Color 7
			70-74	Color 7
			75-79	Color 7 + Color 8
			80-84	Color 8
			85-89	Color 8 + Color 9
			90-94	Color 9
			95-99	Color 9 + White
			100-180	Rotation forward from fast to slow
			181-185	Stop
			186-255	Rotation reverse from slow to fast
	CH10	Color Fine Adjustment	0-255	
CH8	CH11	Gobo	0-9	Blank
			10-19	Gobo 1
			20-29	Gobo 2
			30-39	Gobo 3
			40-49	Gobo 4
			50-59	Gobo 5
			60-69	Gobo 6
			70-79	Gobo 7
			80-99	Gobo 8
			100-109	Blank Gobo shaking from slow to fast
			110-119	Gobo 1 shaking from slow to fast
			120-129	Gobo 2 shaking from slow to fast
			130-139	Gobo 3 shaking from slow to fast

DMX Channel

CH16	CH20	Function	Value	Description
CH1	CH1	Pan Movement	0-255	0-540°
CH2	CH2	Pan Fine Movement	0-255	0-2°
CH3	CH3	Tilt Movement	0-255	0-270°
CH4	CH4	Tilt Fine Movement	0-255	0-1°
	CH5	Pan/Tilt Speed	0-255	From fast to slow
CH5	CH6	Strobe	0-3	Off
			4-127	Pulse strobe from slow to fast
			128-191	Fade change strobe from slow to fast
			192-251	Random strobe from slow to fast
			252-255	Switch
CH6	CH7	Dimming	0-255	0-100% Dimming
	CH8	Dimming Fine Adjustment	0-255	
CH7	CH9	Color	0-4	White
			5-9	White + Color 1
			10-14	Color 1
			15-19	Color 1 + Color 2
			20-24	Color 2
			25-29	Color 2 + Color 3
			30-34	Color 3
			35-39	Color 3 + Color 4
			40-44	Color 4
			45-49	Color 4 + Color 5

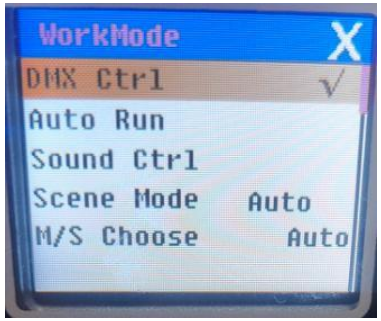
lights automatically, and filter out the unusable address code automatically (512 to current channel value).

Channel Mode: To choose the two different channel mode 16/20;

Pic.2 DMX Address Setting

2. MODE → Work Mode: Work Mode Setting

Enter to 'Work Mode' Setting as following Pic.3, then set the work mode and control the LED for lights, support 5 work mode: auto/sound/DMX/master slave/scene mode, the specific details as follow:



Pic.3 Work Mode Setting

DMX Mode: Enter to DMX control mode, to receive the DMX signal;

Auto Mode: Enter to auto play mode;

Sound Mode:
Enter to sound control mode, the lights will work in the first scene of the built-in program when detect the strong sound, otherwise will keep the last scene;

Scene Mode: Working with the auto or selected scene 1-10;

Master Slave Mode:
Enter to master slave mode, it will effective when not in DMX mode, choose the data output mode, the lights will exchange to output automatically after detected the DXM status, in order to avoid the data collision;

Master Light:
The lights will work with the built-in program, it will output data synchronously if no DMX signal, otherwise will not.

Slave Light:
The lights will work with the built-in program, will not output data, it means will not synchronized with other lights;

Auto:
The lights will work with the built-in program if no DMX signal, otherwise will work with the DMX signal.

The scene mode is suitable for a single or a small number of lights, only need to output a fixed scene or work a simple program, no need to connect to the controller, can edit it on the scene interface.

3. DISP → DISPLAY: Display Setting

Enter to display specification setting, support to exchange the language or set the display screen inverted ect. as following Pic.4;

Pic.4 Display Setting

Stepper Motor Information: Display the hall and status for all motors for lights ➞ The Motor for Pan, Tilt, Pan Optocoupler, Tilt Optocoupler, Fixed Gobo, Glass Gobo, Gobo Rotation, Color Plate, Prism, Prism Rotation, Focus, Zoom, Frost.

Error Logging: Display 8 fault status records under the reset and working status for lights ➞ Error Data, Error Time, Hall Error, Hall Short Circuit, Optocoupler Error, out-of-step, Hit the Positioning Rod, LED Error, Sensor Error, Fan Error;

Fixture Status: Display the key status data for lights ➞ The Status for 1-100% communication quality, Accumulative Detected Error Frames, Light Source Temperature, Display Board Temperature, Sensor 1/2 Temperature;

Version: Display the version for the lights ➞ The Version for System, Model, Display Board, Control Board;

Light Time: Total working time records for the light source, the unit are minutes, can choose the “SURE” to clear, as a reference for the regular maintenance of the light source;

Total Time: Total working time records for the lights after power on, the unit are minutes, can’t clear;

Serial Number: Serial Number for lights.

OFF → All motors and light source return to the position and status when after reset under no signal;

ON → Keep the last frame DMX data output when no signal.

Scene Time Setting: 001-255
Reset
Factory Setting:
Choose "SURE" to confirm when popup the dialog to return to the factory setting.

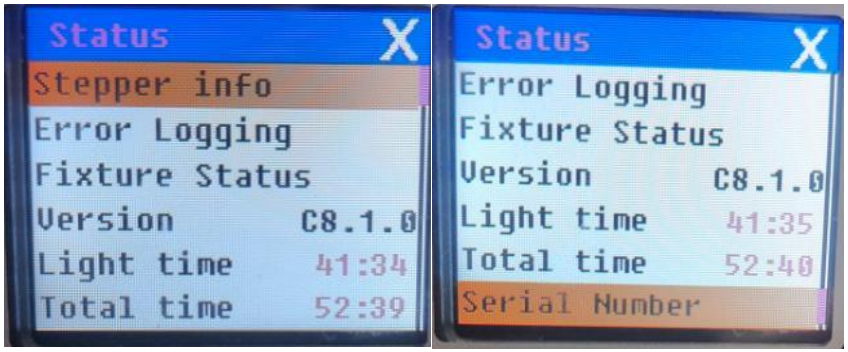
Pls check if closed the P/T Rectify (Pan/Tilt Optocoupler correction) when the lights can't calibrate the position;

Pls check the "Data Hold" when the lights output the wrong position after disconnect the signal cable;

Pls control the Pan/Tilt with the maximum route after the Pan/Tilt Offset setting, to ensure the Pan/Tilt will not hit the positioning rod or housing .

6. STAT → Status: Status Information

Enter to the status information as following Pic.7:



Pic.7 Status Information

Language: English / Chinese;

Screen Saver:
The display information and method for screen after the setting (no any operation within 30 seconds):

OFF → Keep the last operation interface, screen on;
Mode 1 → Screen off;
Mode 2 → Blank screen, display the address code for current light at the left bottom;
Mode 3 → Display the brand information, address code and work mode;
Mode4.

Screen Flip:
Screen Inverse Setting
Forward → Normal display (Default);
Inverse → 180° inverse display;
Auto → Exchange the display method automatically based on the hanging direction for lights..

DMX Indication:
Set the indication method for DMX signal light.
Mode 1 → ON with signal, OFF without signal;
Mode 2 → OFF with signal, ON without signal;
Mode 3 → Flicker with signal, OFF without signal.

Screen Backlight:
Set the brightness for screen backlight (no any operation within 10 seconds), screen on when operation (grade 1-10).

4. Scene → Scene Mode Setting

Enter to the scene editing mode as following Pic.5, the lights will not receive the DMX controller data under this mode, the edited data will apply to the lights immediately.

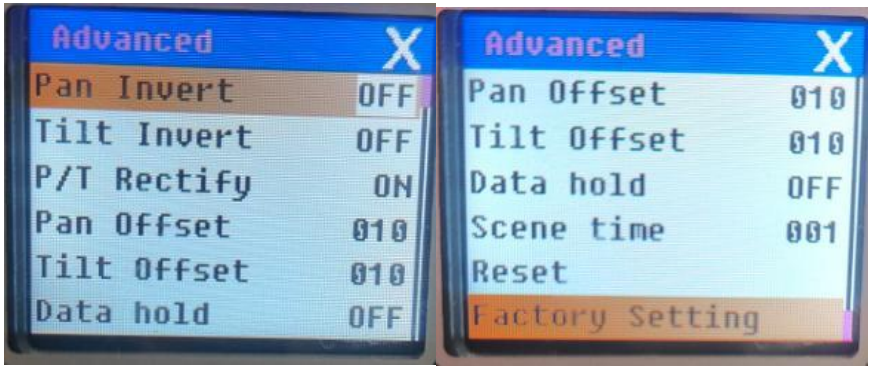
The display content was decided by the current DMX channel, and the content and sequence are same as the DMX channel, can edit 10 scenes:

Pic.5 Scene Mode Setting

The lights will reset if the reset channel edit the effective reset data, the corresponding reset channel data will clear to avoid the continuous reset.

5. ADVA → Advanced: Advanced Setting

Enter to the working specification setting as following Pic.6, will be more convenient for the installation ect.:



Pic.6 Advanced Setting

Pan Invert:
Reverse Pan Movement
OFF → Pan normal movement (Default);
ON → Reverse Pan Movement.

Tilt Invert:
Reverse Tilt Movement
OFF → Tilt normal movement (Default);
ON → Reverse Tilt Movement.

P/T Rectify:
Pan/Tilt Optocoupler correction, set the lights to calibrate when inspect it out of synchronization.
OFF → No calibration when it out of synchronization;
ON → To calibrate automatically when it out of synchronization and record the Out-of-step fault (Default).

Pan Offset:
Set the zero point position for Pan from 4-150 (Default: 10);

Tilt Offset:
Set the zero point position for Tilt from 4-48 (Default: 10).

Data Hold:
Set the output status for lights when no DMX signal.