

BSW 380 IP User Manual



Guangzhou Mitek Light Co., LTD

Email: info@miteklight.com Website: www.miteklight.com Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

Wide voltage: AC90V-235V 50-60Hz Wide voltage driving power supply: 600W Light source system: 380 (Philips)

Optical system

Strobe; Dual motor independent strobe effect, 0.5-20 times/second, adjustable speed Motor: The XY axis uses a three-phase motor, which ensures high speed stability and accurate positioning angle of the lamp!

Dimming curve: 0% -100% linear dimming, smooth without flicker

Beam angle: 0-45 °

Lens diameter: 152mm

Horizontal and Vertical: Using high-precision three-phase motors, accurate positioning,

smooth operation, and automatic correction of positioning

Horizontal: 540 ° rotation, resolution 8/16 bit, with fine tuning

Vertical: 270 ° rotation, resolution 8/16 bit, with fine tuning.

Controls

Dual channel: 16 channel or 18 channel

Control mode 1: DMX 512

Display screen: LCD display screen, adaptable to different installation positions, rotatable180

Effect

Color temperature; 7900±500K

Color system: Color palette: 14 colors+atomization function

Pattern system: Pattern disk: 15 fixed patterns+8 rotating wave patterns+1 white light

Focusing system: electronic focusing

Atomization; Equipped with atomization function and capable of achieving soft lighting effect

Protection grade & Material

The shell is made of fully die cast aluminum.

Waterproof rating: IP65

Dimensions

Lamp body size 695 * 390 * 340cm Net weight: 26KG

Chapter 1 Installation and attention

1.Maintenance

To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture. Intermittently using will extend this item's service life.

Please clear the fan, fan net, and optical lens in order to keep good work state.

Do not use the alcohol or any other organic solvent to wipe the shell.

2.Safety Precaution

In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60 degrees.

Always install this unit in safe and stable matter.

Install or dismantle should operate by professional engineer.

Using lamp,the change rate of power voltage should be within ±10%.If the voltage is too high,it will shorten the light's life; If it's not enough, will influence the effect.

Please restart it 20 minutes later after turning off light , until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.

In order to make sure the product is used well, please read the Manual carefully.

3.Cable connection (DMX)

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 1200hm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or cables with different specified characteristics. 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 1200hm (minimum 1/4 W) between terminals 2 and 3.Figure 1 shows a signal line connection diagram (the fixture in the figure is an example picture and doesn't represent the real exterior of this product).

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.

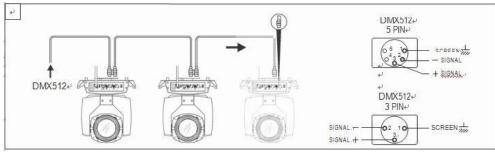


Figure 1 DMX Cable connection

4.Rigging (Optional)

As shown in Figure 2 (the fixture in the figure is an example picture and does not represent the real exterior of this product), 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.

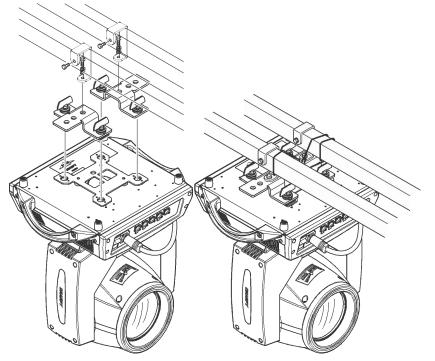


Figure 2 Installation

5.RDM Note

RDM is an extended version of DMX512-A protocol. It is a remote device management protocol. Traditional DMX512 protocol communication is one-way communication. The protocol is based on RS-485 bus. RS-485 is a time-sharing multi-point, half-duplex protocol. Only one port is allowed to output at the same time. So, when using RDM, we should pay attention to it. The following points:

To use console or host device that supports RDM host protocol.

Use bidirectional signal amplifier, traditional one-way signal amplifier is not suitable for RDM protocol, because the RMD protocol needs feedback data, the use of one-way amplifier will block the return of data, resulting in no search fixture;

All fixture must be set to DMX mode to ensure only one host on the cable.

A 120 ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is longer, reducing the signal reflection will make the differential signal more stable and beneficial to the quality of communication.

When the fixture appears to accept DMX control, but can not been search by RDM host, first check the signal amplifier, and then check whether the signal line 2, 3 lines have bad contact. Chapter 2 Panel operation



Chapter 2 Panel operation

1.Brief

The light panel diagram show as Figure 3, above area is Title for fixture description, the black font in the lower right corner shows the fault status of the fixture (when the fault information is not viewed, it displays "ERR", otherwise it displays "NOR"), and the status bar below shows the signal of the current fixture , lamp status, communication status, etc. (the panel in the figure is an example picture and does not represent the real outside of the product panel, please select a panel of the same type as your product for reference.). RDM protocol is embed in fixture, user set DMX address via cable using the controller support RDM function. when fixture was search by controller, displayer will echo 'RDM' indicate this RDM is work. Note: Prevent damage the touch or TFT displayer, Can not use sharp objects chick displayer.

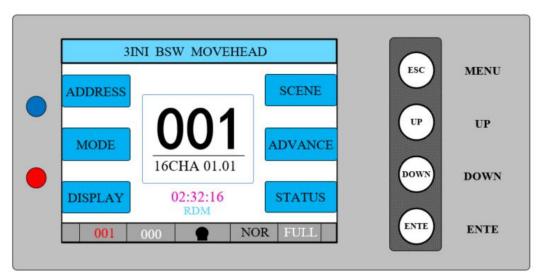


Figure 3-1 Four-buttons Panel diagram

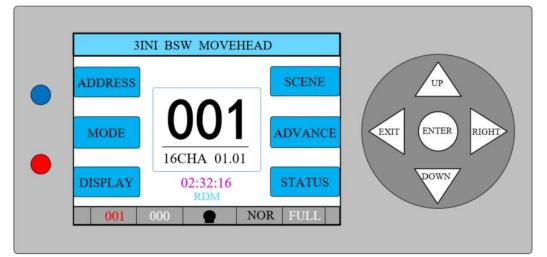


Figure 3-2 Five-buttons Panel diagram



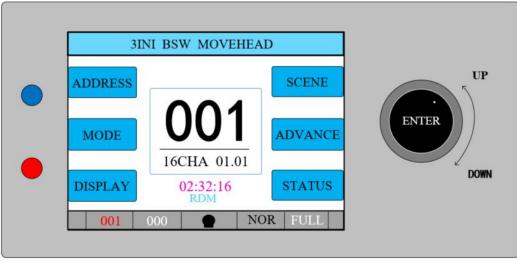


Figure 3-3 knob Panel diagram

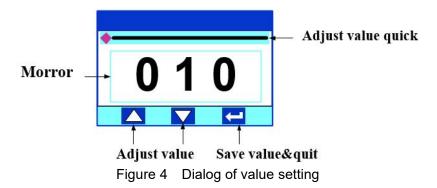
2.Operation

1. Operate fixture with touch or encoder/button

- The left area is TFT Displayer and touch(product which support 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 rotary encoder with button or key, As auxiliary input interface, if fixture disable touch function, the encoder/key can been choose to set or view the item, and then press the encoder button/key to confirm the selection, rotary encoder or push key again set the parameter value, finally, Press encoder button/key one again to save value or setting.
- For the knob shown in Figure 3-3, the cursor can be controlled up or down by rotating in different directions, and pressing the knob can confirm it. If you want to go back, turn the knob to move the cursor to the back button on the display, press the knob to confirm and return.

2. Parameter value setting

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



- **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.
- **Save Value:** Any time, click on the lower right corner of the "OK" button, the setting will been saved into internal memory.



3.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.

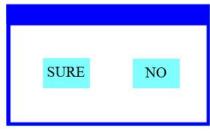


Figure 5 Dialog of confirm

4.Sub Menu (Parameter)

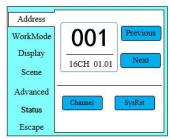


Figure 6-1 Address setting

Address	Scene Select	1
/orkMode	Scene Time	0.0s
	Control Mode	OFF
Display	01. Pan	000
Scene	02. Pan Fine	000
dvanced	03. Tilt	000
dvanced	04. Tilt Fine	000
Status	05. PT Spd	000
Escape	06. Dimmer	000

Figure 6-4 Scene Settings

Address	DMX Ctrl	\checkmark
WorkMode	Auto Run	
	Sound Ctrl	
Display	Scene Mode	Auto
Scene	M/S Choose	Auto
Advanced		
Status		
Escape		

Figure 6-2 Run Settings

Address	Pan Invert	OFF
WorkMode	Tilt Invert	OFF
	P/T Rectify	OFF
Display	Pan Offset	010
Scene	Tilt Offset	010
Advanced	Data hold	OFF
Advanced	Scene time	001
Status	Data hold	OFF
Escape	Factory Setting	

Address	语言	ENGLISH
WorkMode	Screen saver	OFF
	Screen Rot	AUTO
Display	DMX Indicate	Mode2
Scene	Signal Bright	005
Advanced	Screen Light	005
Advanced	Touch Enable	ON
Status	Touch Rectify	
Escape		

Address	Stepper info		•
WorkMode	Error Logging		•
	Fixture Status		•
Display	version	H3.12	•
Scene	Light time	0:02	
Advanced	Total time	10:0	2
Status			
Escape			

Figure 6-6 Status Settings

Figure 6 Parameter menu

Operation and parameter instruction

In the main interface, you can enter the corresponding parameter setting interface by selecting six buttons.

1.DMX Address setting

Enter page show in Figure 6-1, can set fixture DMX address, channel mode and so on.



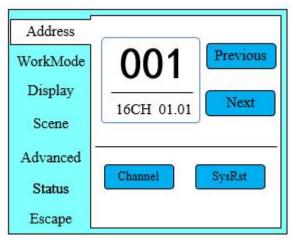


Figure 6-1

The menu settings of fixture have optimized the setting of addresses. Several settings of the address are as follows:

- Select " previous " or "next", the fixture will be based on the current address and channel mode, automatically calculate the next or last address, make address setting can quickly;
- Click on the address ague, you can enter the numeric editing window, where you can set any valid address, fixture system automatically get the current number of channels, automatically filter the unusable address (512 - the current number of channels).
- Fixture support RDM protocol, remote address can be set through RDM.

Provide two buttons:

- Channel mode: you can choose different channel modes by cycle.
- Fixture reset: reset all motors. Set Light work mode
- 2. Fixture operating mode setting

Address	DMX Ctrl	\checkmark
WorkMode	Auto Run	
1.000 (M. 1992)	Sound Ctrl	
Display	Scene Mode	Auto
Scene	M/S Choose	Auto
Advanced		
Status		
Escape		

Figure 6-2

Through the page shown in Figure 6-2, the operating mode of the fixture can be set and the lamp can be controlled. The fixture supports four operating modes (DMX mode, auto mode, voice control mode and scene mode). Detailed parameter settings can be refer in the previous section. Specific parameter descriptions are as follows:

operating mode

DMX Ctrl	DMX mode, receive DMX signal, RDM signal
Auto Run	Fixture run automatically according to built-in programs



Sound Ctrl	When	the fixture detects a strong sound, the fixture automatically runs a
	scene	according to the built-in program, otherwise it will stay the last
	scene	
Scene Mode 01	runs in	a set scene, which supports most of the custom editing of 10
	scenes).
	1~10	outputs the specified scene
	Auto	Automatically loops the output scene in the set scene time
		(non-zero) order, and the scene with time 0 automatically ignore
M/S Choose	Master	and slave selection, non-DMX mode takes effect, select the mode
	of data	output, fixture detect DMX cable state automatic switch output,
	preven	t data conflicts
	Mast	fixture runs built-in program. If DMX has no signal, it outputs data
	er	(synchronization), otherwise it does not output data.
	Slave	Fixture runs built-in program and do not output data
	Auto	If DMX has no signal, the fixture will runs built-in program.
		Otherwise, the fixture will run in DMX Mode(follow DMX).
Lamp switch	(Lamp	light source) pop-up confirmation dialog box, select "SURE" to
	confirm	the current operation, turn on or off the lamp, switch time interval
	limited	to 30 seconds
	Off	the current lamp output is off
	On	The current lamp output is turned on

Scene mode applies to a single or a small number of fixture, just output a fixed scene, or need to run a simple program, you no need connect to the console, in the scene page can be edited. If the light source is lamp, wait for 10 minutes before turning off the lamp.

3. Set display

Address	语言	ENGLISH
WorkMode	Screen saver	OFF
-	Screen Rot	AUTO
Display	DMX Indicate	Mode2
Scene	Signal Bright	005
Advanced	Screen Light	005
Advanced	Touch Enable	ON
Status	Touch Rectify	
Escape		

Figure 6-3

The fixture support Chinese and English, invert display and so on. Enter the corresponding parameter settings as shown in Figure 6-3. The specific menu contents are as follows:

DISPLAY SETTING

Language	display lan	guage settings
	English	English display
	Chinese	Chinese display
Screen saver	Set screen	30 seconds without operation, the screen's display content or



	method.	
	OFF	Keep the last operation page
	Mode1	Black
	Mode2	Black screen, showing the address code of the current fixture in
		the lower left corner.
	Mode3	Display trademark information, address code and operation mode.
	Mode4	Display trademark information, address code and operation mode, which lasts for 30 seconds , black screen.
Screen Rot	Set the di	splay direction of the screen.
	OFF	No reverse display
	ON	Reverse display
	AUTO	Automatically detect the direction of lamps and automatically
		switch direction.
DMX Indicate		dication mode of DMX signal indicator.
	Mode1	When signal is bright, no signal is off.
	Mode2	When signal is off, no signal is bright.
	Mode3	When signal is flash, no signal is off.
Signal Bright	Set the br	ightness of the signal indicator
	1~10	10
Screen Light	Set the so	reen backlight for 10 seconds without operation
	1~10	10
Touch switch	accidenta	whether to disable the touch function. When the screen touch is Ily damaged, you can disable the touch function and use auxiliary bet the fixture.
Touch		screen touch function work anomaly, you can enter the corrected ection screen touch

Which fixture support touch function, if there is a bad touch, you can enter the correction page to re-calibrate the touch accuracy of the touch screen, under normal circumstances, do not enter this page. If the touch is damaged, please choose to disable the touch switch.

4. Scene

Enter the page shown in Figure 6-4(The channel shown in the picture is only an example of the function, please refer to the channel table description in the next section for the specific channel table of this product), and the fixture enters the scene editing mode. For example, under this page, when the [Control Mode] option is turned off ,the fixture does not receive DMX console data, and the edited data will effect on the fixture immediately. When it turned on, the console signal is received and the console data is read and reflected on the corresponding channel display.



Address	Scene Select	1
WorkMode	Scene Time	0.0s
Constanting of the	Control Mode	OFF
Display	01. Pan	000
Scene	02. Pan Fine	000
A 4	03. Tilt	000
Advanced	04. Tilt Fine	000
Status	05. PT Spd	000
Escape	06. Dimmer	000

Figure 6-4

The content of the page depends on the currently selected channel mode, and the channel content and order displayed are consistent with the fixture channel table. Through this page, you can edit 10 scenes, as shown in the following table:

SCENE MODE

Scene Select	Select the	Select the current operation scenario.		
	1~10	The 10 scenes sets the format		
Scene Time		Sets the retention time of the current scene when it is automatic, the final time is determined by the scene time multiplier, unit in 0.1 seconds.		
	0	The current scene is not output in automatic scene output.		
	1-255	01s-25.5s		
Control Mode	Choose w	Choose whether to use the console to manipulate the settings data		
	OFF	It is not possible to control the console and set the data directly from the current interface		
	ON	Using console control, the console data comes first when setting, and the setting is invalid in the current interface		
1. PAN	0-255	Set up the data of each channel, and the contents and		
	0-255	order of the display are one-to-one correspondence with		
	0-255	the channel list of fixture.		
N. Function	0-255			

If the reset channel in the scene edits the effective reset data, the fixture will reset, but after reset, the corresponding reset channel value will automatically set 0, preventing multiple consecutive resets. Looking at this page, you can get the current channel table slot of the fixture. For specific channel data, please refer to the detailed channel description.



5. Set light run parameter

Address	Pan Invert	OFF	
WorkMode	Tilt Invert	OFF	
	P/T Rectify	OFF	
Display	Pan Offset	010	
Scene	Tilt Offset	010	
Advanced	Data hold	OFF	
	Scene time	001	
Status	Data hold	OFF	
Escape	Factory Setting		

Figure 6-5

Enter the page shown in Figure 6-5, adjust the field parameters of fixture, facilitate the installation of fixture, etc.

ADVANCED SETTING

Pan Invert	Set the r	otation direction of PAN			
	OFF				
	ON				
Tilt Invert	Set the r	Set the rotation direction of TILT			
	OFF				
	ON				
P/T Rectify	Setting ι	p fixture to detect XY lost step and correct			
	OFF	Uncorrected position after out of step			
	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.			
Pan Offset	Setting t	he zero point of the PAN of the fixture			
	4-150				
Tilt Offset	Setting t	Setting the zero point of the TILT of the fixture			
	4-48				
Data hold	When the fixture is not equipped with DMX signal, the output state				
	of the fixture				
	OFF	No signal, so the motor and light source return to the			
		position and state when reset is completed.			
	ON	No signal, keep the last frame DMX data output.			
Scene Time	Work with the scene time to determine the scene retention time				
(multiple)	1-255	Retention time = Scene time * multiple			
Lamp mode	Set the way to first open the lamp after power up				
	Power	Turn on the lamp at power up and reset the lamp after			
	on	30 seconds.			
	After	Reset the fixture after 3 seconds when power-on, and			
	reset	turn on the lamp after reset.			
	Manual	After reset, manually turn on the lamp through the menu			
		or console.			
Factory Setting		he confirmation box, select "SURE", and return the lamp			
	paramet	ers to the factory settings.			



When choosing power-on mode, the lamp will wait for 30 seconds after power-on, let the lamp fully start, internal voltage is stable enough, then start the reset program, if the field capacity is stable, recommend power-on mode.

When the fixture can not calibrate the position, please check whether the "P/T Rectify" is turned off. When the signal is unplugged, check the Data Hold setting first if the position of the fixture is not output as expected.

When setting the XY offset, after setting up, please control XY with the maximum stroke first to check that XY will not bump into the positioning rod or shell.

6. Status and information

Address	Stepper info		•
WorkMode	Error Logging		•
	Fixture Status		
Display	version	H3.12	•
Scene	Light time	0:02	•
Advanced	Total time	10:02	2
Status			
Escape			



Entering the page shown in Figure 6-6, you can view the information and real-time status of the fixture to get their usage status. If the fixture need customer service, please provide the status information displayed on the page as a basis for judgment, as shown in the following table:

STATUS INFORMATION

Stepper info	Display inform	nation status of all motors and signals in fixture.
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback
	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
Error Logging		st 8 error records when the fixture is reset and running. ords are not saved after power failure. The current s valid.
	Error Logging	Total number of failures detected after power on
	12: :03	The time of power failure when the fault occurs is in minutes.
	Hall error	The effective hall signal is not detected when the motor is reset



	Hall short	When the motor is reset, the hall signal of the motor is always effective	
	Opti error	No effective optocoupler signal is detected when the motor is reset.	
	Lose stop	The corresponding motor is out of step during its operation.	
	Hit	Striking the positioning rod when the motor is reset	
	Lamp error	Lamp explosion accident	
	NTC error	The temperature sensor signal is abnormal	
	Fan error	The main fan is not working properly.	
Fixture status	Displays the c	ritical state data of the current fixture for reference.	
	Communicat ion prec	0~100%, Communication quality of internal data link of lamps and lanterns	
	Error Cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.	
	Light Temperature	Show the temperature of the current light source, "" means no detection.	
	Panel	Displays the temperature of the current display panel	
	Temperature	or the ambient temperature.	
	Sensor1 Temperature	Display the ambient temperature of the motherboard temperature or the motherboard installation position.	
Version	Display the information and version of the current fixture, important reference for after sales maintenance.		
	Device	The name of the fixture is the same as the equipment information of RDM.	
	Model	The type of fixture is the same as the model information of RDM.	
	Panel	Firmware version and serial number of display panel	
	Main Board	Firmware version and serial number of mother board 1	
Light time	Record the total cumulative time of light source opening, unit minute user manual cleaning, as a reference for regular maintenance of light source time		
Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.		



Chapter 3 Channel description

1. Channel table

This fixture channel can be viewed in scene mode in order, channel mode is set in the "Address Settings" page, specific details of the data as follows:

			CHA	NNEL TABLE
LIST-1	LIST-2	NAME	VALUE	BRIEF
[CH1]	[CH1]	Pan	0-255	0-540(degree)
[CH2]		Pan Fine	0-255	0-2(degree)
[CH3]	[CH2]	Tilt	0-255	0-270(degree)
[CH4]		Tilt Fine	0-255	0-1(degree)
[CH5]	[CH3]	PT Spd	0-255	Fast to slow
[CH6]	[CH4]	Dimmer	0-255	0-100% dimmer
[CH7]	[CH5]	Strobe		
			0-3	Dark
			4-103	Pluse strobe slow to fast
			104-107	Open
			108-207	Fade strobe slow to fast
			208-212	Open
			213-251	Rand strobe slow to fast
			252-255	Open
[CH8]	[CH6]	Colour		
			0-4	White
			5-9	White+colour1
			10-14	Colour1
			15-19	Colour1+Colour2
			20-24	Colour2
			25-29	Colour2+Colour3
			30-34	Colour3
			35-39	Colour3+Colour4
			40-44	Colour4
			45-49	Colour4+Colour5
			50-54	Colour5
			55-59	Colour5+Colour6
			60-64	Colour6
			65-69	Colour6+Colour7
			70-74	Colour7
			75-79	Colour7+Colour8
			80-84	Colour8
			85-89	Colour8+Colour9
			90-94	Colour9
			95-99	Colour9+Colour10
			100-104	Colour10
			105-109	Colour10+Colour11
			110-114	Colour11
			115-119	Colour11+Colour12
			120-124	Colour12



			125-129	Colour12+Colour13
			130-134	Colour13
			135-139	Colour13+Colour14
			140-144	Colour14
			145-149	Colour14+Colour15
			150-202	Rotate forward (fast to slow)
			203-255	Rotate reverse (slow to fast)
[CH9]	[CH7]	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
			70-74	Gobo14
			75-79	Gobo15
			80-128	Rotate reverse (fast to slow)
			129-131	Stop
			132-180	Rotate forward (slow to fast)
			181-185	Shake slow to fast Gobo1
			186-190	Shake slow to fast Gobo2
			191-195	Shake slow to fast Gobo3
			196-200	Shake slow to fast Gobo4
			201-205	Shake slow to fast Gobo5
			206-210	Shake slow to fast Gobo6
			211-215	Shake slow to fast Gobo7
			216-220	Shake slow to fast Gobo8
			221-225	Shake slow to fast Gobo9
			226-230	Shake slow to fast Gobo10
			231-235	Shake slow to fast Gobo11
			236-240	Shake slow to fast Gobo12
			241-245	Shake slow to fast Gobo13
			246-250	Shake slow to fast Gobo14
			251-255	Shake slow to fast Gobo15
[CH10]	[CH8]	Rot Gobo		
			0-9	White
			10-19	Gobo1
			20-29	Gobo2
			30-39	Gobo3



			40-49	Gobo4
			50-59	Gobo5
			60-69	Gobo6
			70-79	Gobo7
			80-89	Gobo8
			90-130	Rotate reverse (fast to slow)
			131-135	Stop
			136-175	Rotate forward (slow to fast)
			176-185	Shake slow to fast Gobo1
			186-195	Shake slow to fast Gobo2
			196-205	Shake slow to fast Gobo3
			206-215	Shake slow to fast Gobo4
			216-225	Shake slow to fast Gobo5
			226-235	Shake slow to fast Gobo6
			236-245	Shake slow to fast Gobo7
			246-255	Shake slow to fast Gobo8
[CH11]	[CH9]	Gobo.Rot		
	[00]		0-127	0-360(degree)
			128-190	Rotate reverse (fast to slow)
			191-192	Stop
			193-255	Rotate forward (slow to fast)
[CH12]	[CH10]	Gobo.R F	0-255	
[CH13]	[CH11]	Prism1		
[••]	[•]		0-127	None
			128-255	Inert prism1
[CH14]	[CH12]	Prism1.R		
	<u> </u>		0-127	0-360(degree)
			128-187	Rotate forward (fast to slow)
			188-195	Stop
			196-255	Rotate reverse (slow to fast)
[CH15]	[CH13]	Prism2		
			0-127	None
			128-255	Insert frost
[CH16]	[CH14]	Zoom	0-255	Large to small
[CH17]	[CH15]	Focus	0-255	Far to near
[CH18]	[CH16]	Reset		
			0-99	None
			100-105	Turn off lamp over 3 second
			106-199	None
			200-205	Turn on over 3 second
			206-209	None
			210-215	Reset XY motor over 3 second
			216-219	None
			220-235	Reset Effect motor over 3 second
			220-235	Reset Effect motor over 3 second None



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.

