400 LED 3IN1 MOVE HEAD LIGHT USER MANUAL



Please read over this manual before operation the light

1. **Product Instruction**

Input voltage: AC110V-240V/50-60HZ

Light source specification: led 400W

Light source life: 50000 hours

Lumen illuminance: 4 meters 80,000 lm

Rated power: 500W CRI: 75

Channel mode: 22 channels & 26 channels

Horizontal scan: 540 degrees (16bit precision scan) electronic error correction

Vertical scanning: 270 degrees (16bit precision scanning) electronic error correction

Dimming system: 0-100% linear adjustment

Focusing system: linear adjustment from 4 meters to 50 meters

Atomization system: 1 independent atomization effect, soft and natural light spot

Magnification angle: 4-35 degrees

High-speed strobe: 0-30 times/sec. Adjustable speed strobe effect. Strobe macro function

Color: 12 colors + white light. Color half-color function

Color mixing system: linear CMY+CTO color mixing system. Fixed patterns: 12 fixed patterns + white light

Rotating pattern: 7 glass patterns, each glass pattern can be independently forward and reverse

Prism system: standard single 6-row prism and 8+8 prism, each prism can be independently

forward and reverse Macro function: console reset function, self-propelled mode, master-slave mode

Display mode: LCD display, key + touch dual operation mode Control signal: International standard DMX512. With RDM function, online software upgrade is

available, dial address code Cooling method: Adopt axial fan to enhance cooling Safety device: with electronic temperature control overheating protection, electronic temperature control automatic power-off protection when the overheating system fails

Appearance material: high temperature resistant plastic

Working environment: -20 degrees - 40 degrees

Protection level: IP20

Product net weight: 22.5KG Product size: 38*27*65CM (L*W*H)

2. 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.

Figure 3 Panel diagram

3. 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.

2. Parameter value setting

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

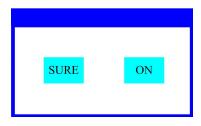


Figure 4 Dialog of value setting

- **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.

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.



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Figure 5 Dialog of confirm

4. Sub Menu (Parameter)



5. Fixture operating mode setting

operating mode

DMX Ctrl	DMY	node, receive DMX signal, RDM signal	
DIVIX CUI	DIVIX II	lode, receive Divix signal, KDIVI signal	
Auto Run	Fixture run automatically according to built-in programs		
Sound Ctrl	When t	the fixture detects a strong sound, the fixture automatically runs a scene	
	accord	ing to the built-in program, otherwise it will stay the last scene	
Scene Mode 01	runs in	a set scebe, 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 o	utput, fixture detect DMX cable state automatic switch output, prevent	
	data co	onflicts	
	Mast	fixture runs built-in program. If DMX has no signal, it outputs data	
	er	(synchronization), otherwise it does not output data.	
	Slave	ixture runs built-in program and do not output data	
	Auto	If DMX has no signal, the fxiture 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 cur	rent operation, turn on or off the lamp, switch time interval limited to 30	
	second	ds	
	Off	the current lamp output is off	
	On	The current lamp output is turned on	

6. Set display

DISPLAY SETTING

Language	display language settings		
	English		
	Chinese		
Screen saver	Set screen 3	0 seconds without operation, the screen's display content or method.	

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	OFF	Keep the last operation page		
	Mode1	Black		
	Mode2	le2 Black screen, showing the address code of the current fixture in the		
		lower left corner.		
	Mode3	Display trademark information, address code and operation mode.		
Screen Rot	Set the displa	ay direction of the screen.		
	OFF	No reverse display		
	ON	Reverse display		
	AUTO	Automatically detect the direction of lamps and automatically		
		switch direction.		
DMX Indicate	Set the indicate	ation 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 brigh	tness of the signal indicator		
	1~10	10		
Screen Lihgt	Set the screen backlight for 10 seconds without operation			
	1~10	10		
Touch switch	Choose whether to disable the touch function. When the screen touch is			
	accidentally	damaged, you can disable the touch function and use auxiliary input		
	to set the fixt	ure.		
Touch	When the sc	reen touch function work anomaly, you can enter the corrected page		
	correction so	reen touch		

7. Scene

SCENE MODE

Scene	Select the current of	pperation scenario.			
Select	1~10	The 10 scenes sets the format			
Scene Time	Sets the retention time of the current scene when it is automatic, unit in 0.1				
	seconds.				
	0	The current scene is not output in automatic scene output.			
	1-255	01s-25.5s			
1. PAN	0-255	Set up the data of each channel, and the contents and order of			
	0-255	the display are one-to-one correspondence with the channel			
	0-255	list of fixture.			
N. Function	0-255				

8. Set light run parameter

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 rotation direction of PAN	
	OFF	
	ON	
Tilt Invert	Set the rota	ation direction of TILT
	OFF	

	ON		
P/T Rectify	Setting up 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 the zero point of the PAN of the fixture		
	4-150		
Tilt Offset	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.	
Lamp mode	Set the way	to first open the lamp after power up	
	Power on	Turn on the lamp at power up and reset the lamp after 30	
		seconds.	
	After	Reset the fixture after 3 seconds when power-on, and turn on the	
	reset	lamp after reset.	
	Manual	After reset, manually turn on the lamp through the menu or	
		console.	
Factory	Pop up the	confirmation box, select "SURE", and return the lamp parameters	
Setting	to the facto	ry 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.

9. Status and information

Stepper info	Display information 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	Show the latest 8 error re	cords when the fixture is reset and running. The error records	
	are not saved after power	failure. The current power cycle is 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.	

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	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 critical state	data of the current fixture for reference.
	Communication 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 Temperatrue	Displays the temperature of the current display panel or the
		ambient temperature.
	Sensor1 Temperatrue	Display the ambient temperature of the motherboard
		temperature or the motherboard installation position.
Version	Display the information a	and version of the current fixtrue, 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 cumula	tive time of light source opening, unit minute, user manual
	cleaning, as a reference f	or regular maintenance of light source time
Total time	The total accumulated ti	me for recording the opening of fixture is not allowed to be
	removed.	

1. Channel table

CHANN EL1	CHAN NEL2	NAME	VALUE	DEFIE
CH1	CH1	PAN	0-255	0-540
CH2	CH2	PAN Fine	0-255	
СНЗ	СНЗ	TILT	0-255	0-270
CH4	CH4	TILT Fine	0-255	
CH5		XY speed	0-255	fast to slow
CH6	CH5	Dimmer	0-255	0-100% Dimmer

			0-3	Drak
			4-103	Slow strobe to fast strobe
			104-107	White
0117	0110	Otros la s	108-155	Slow strobe to open strobe
CH7	CH6	Strobe	156-207	Slow strobe to close open strobe
			208-212	White
			213-251	Free strobe
			252-255	White
			0-9	White
			10-19	Red
			20-29	Yellow
			30-39	Blue
			40-49	Green
			50-59	Amber
			60-69	Light blue
			70-79	Pink
			80-89	UV
			90-99	Red/White
CH8	CH7	Color	100-109	Red/Yellow
			110-119	Blue/Yellow
			120-129	Green/Blue
			130-139	Amber/Green
			140-149	Light Blue/Amber
			150-159	Pink/Light
			160-169	Blue UV/Pink
			170-179	CTO/UV
			180-215	CW Rotate
			216-220	STOP
			221-255	CCW Rotate
СН9	CH8	С	0-255	Cyan
CH10	СН9	М	0-255	Magenta
CH11	CH10	Y	0-255	Yellow
CH12	CH11	сто	0-255	Color Temperature
			0-4	Med Circle
			5-9	Small Circle
			10-14	5 Petals
			15-19	Circles
			20-24	8 X
CH13	CH12	Gobo wheel 1	25-29	Squiggle Star
			30-34	Dots Lots
			35-39	4 Dots
			40-44	5 Dots
				+
			45-49	6 Petals

CH14 CH1 CH15 CH1 CH16 CH17 CH1 CH18 CH1 CH20 CH1		120-127 128-190 191-192 193-255 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255 0-255	OPEN Rotate CW Stop Rotate CCW White Stars Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop Rotate reverse (slow to fast)
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	191-192 193-255 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Stop Rotate CCW White Stars Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CCW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	193-255 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Rotate CCW White Stars Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	White Stars Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	10-19 20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Stars Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	20-29 30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Vortex Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	30-39 40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Wheel Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	40-49 50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Nature Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	50-59 60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Flower Lace Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH15 CH1 CH16 CH17 CH1 CH18 CH1	4 Gobo rot	60-69 70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Dots Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		70-79 150-200 201-205 206-255 0-127 128-190 191-192 193-255	Dots Lots Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		150-200 201-205 206-255 0-127 128-190 191-192 193-255	Rotate CW Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		201-205 206-255 0-127 128-190 191-192 193-255	Stop Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		206-255 0-127 128-190 191-192 193-255	Rotate CCW 0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		0-127 128-190 191-192 193-255	0-400 degrees Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		128-190 191-192 193-255	Rotate forward (fast to slow) Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		191-192 193-255	Stop
CH16 CH17 CH1 CH18 CH1 CH19 CH1		193-255	<u> </u>
CH17 CH1 CH18 CH1 CH19 CH1	Gobo fine		Rotate reverse (slow to fast)
CH17 CH1 CH18 CH1 CH19 CH1	Gobo fine	0-255	, , , , , , , , , , , , , , , , , , , ,
CH18 CH1		0-200	
CH18 CH1	5 Prism1	0-127	Close prism
CH19 CH1	PHSIIII	128-255	Five-Facet(Center)Prism
CH19 CH1		0-127	Prism Indexing 1
CH19 CH1	Prism1 Rot	128-190	Clockwise Rotation
	Filsiii Rot	191-192	Stop
		193-255	Counterclockwise Rotation
	7 Prism2	0-63	Close prism
CH20 CH1	FIISIIIZ	64-127	Three-Facet Linear Prism
CH20 CH1		0-127	0-400 degrees
01120	B Prism2 Rot	128-190	Clockwise Rotation
	o Prism2 KOt	191-192	Stop
		193-255	Counterclockwise Rotation
CH21 CH1	9 Frost	0-127	Off
5711		128-255	On
CH22	Autofocsus		None
CH23	Zoom	0-255	small to large
CH24 CH21	Focus	0-255	far to near
CH25			
	Focus fine	210-215	Reset XY(over 6 seconds)
CH26	Focus fine	220 225	Reset effect moto(over 6 seconds)
CH22	Focus fine Function	220-235	1.0001 011001 111010(0701 0 00001100)
CH26	Focus fine	220 225	