

440 CMY Beam Moving Head



User manual

Please read the instructions carefully before use

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statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- ⊠ Unpack and check carefully there is no transportation damage before using the unit.
- ⊠ Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- ⊠ It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- ⊠ The unit is for indoor use only. Use only in a dry location.
- ⊠ The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- ⊠ Disconnect main power before replacement or servicing.
- ⊠ Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- ⊠ Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- ⊠ Maximum ambient temperature is $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C . DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- ⊠ In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- ⊠ DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- ☒ To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- ☒ DO NOT open the unit within five minutes after switching off.
- ☒ The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2. Technical Specifications

Light source: YODN 440W

Maximum power: 600-800W

Power supply: wide voltage input switching power supply 100V-240V 50-60Hz

Color temperature: 6500K-8000K

Lamp life: 2000 hours

Spot angle: 2-50 degrees

RDM function: It can change DMX address code and channel mode from console.

Optional Artnet functionality

Control mode: DMX512, automatic operation, master-slave mode channel mode: 27CH/31CH

X/Y scan: level 540 degrees,

Vertical: 270 degrees

CMY independent color mixing system, can adjust more colors

Color Disk: 13 color plates + pure white light, rainbow effect, can be arbitrarily positioned

6-color disc: an independent 6-color disc, which can achieve pattern rainbow

effect

Rotary Patterns Disk: 7 Pluggable Patterns, Patterns Rotary, Patterns Pipeline Effect

Rotating Patterns Rotation: Arbitrary Angle Location

Fixed Patterns: 14 Fixed Patterns, Fluctuating Pipeline Effect

Dynamic Effect Disk: An independent effect Disk can achieve the effects of water marks, flame and stars.

Atomizing Mirror: Atomizing Soft Mirror

Dimming: 0-100% linear dimming

Stroboscopic: synchronous pulse stroboscopic, random pulse stroboscopic

Prism Disk 1:8 Prism, Bidirectional Rotation Effect

Prism disc 2:16 prism, bidirectional rotation effect, optional 6 rows of mirrors

Prism

Focusing: Prisms can focus independently to achieve richer prism effects

Focus: Patterns can be adjusted and clear at will

Amplification: The spot can be adjusted from 3 degrees to 50 degrees.

Display: 2.8 Inch Touch color LCD display, Chinese and English display, reversible display

Net weight: 23kgs, Gross weight: 27kgs

Packaging size: 660*560*500MM

3. How To Control The Unit

On the base of the control panel offers a number of features, such as setting DMX fixture address, switch the lamp, run the test program, the mode selection.

MainMenu	Second Menu	Third Menu	Forth Menu	
Settings	Dmx Address	1 - 512		
	Fixture Set	Dmx Mode	STD / EXT	
		Run Mode	DMX / Host	
		Pan Inverse	Close / Open	
		Tilt Inverse	Close / Open	
		Lamp Open	Close / Open	
	Display	Language	CH / EN	
		Display Flip	Close / Open	
		Display Mode	Show / 60s	
	Reset	Reset	Cance / Run	
		Factory	Cance / Run	
	Info	Time	Current Time	xxxH
			Show Time	xxxH
Power Count			xxx	
Sensor		xxxxxx		
Software Version		Panel	Vx.xxx	

		Motor_XY	Vx.xxx
		Motor	Vx.xxx
Manual	Pan	0 - 255	
	PanFine	0 - 255	
	Tilt	0 - 255	
	TiltFine	0 - 255	
	⋮	⋮	
Factory	Password	0 - 255	
	Pan	0 - 255	
	Tilt	0 - 255	
	Dim	0 - 255	
	Cyan	0 - 255	
	Magenta	0 - 255	
	Yellow	0 - 255	
	Color	0 - 255	
	FixGobo	0 - 255	
	Effect	0 - 255	

	Rot Gobo	0 - 255	
	Gobo Rot	0 - 255	
	Color7	0 - 255	
	Frost	0 - 255	
	PrismZoo	0 - 255	
	Prism1	0 - 255	
	Prism1Ro	0 - 255	
	Prism2	0 - 255	
	Prism2Ro	0 - 255	
	Focus	0 - 255	
	Zoom	0 - 255	

4. DMX channel(20/25DMX channels):

Standard mode	Simple mode	DMX Value	Function
1	1	0—255	Pan
2	2	0—255	Pan Low
3	3	0—255	Tilt
4	4	0—255	Tilt Low
5	5	0—255	P/T Speed
6	6		Function
		50—99	Reset
		100—149	Lamp Off
		150—199	Lamp On
7	7		Shutter
		0-3	Closed
		4-103	SLOW STROBE -> FAST STROBE
		104-107	Open
		108-207	SLOW STROBE -> FAST STROBE
		208-212	Open
		213-251	RANDOM STROBE SLOW -> FAST
		252-255	Open
8	8		Dimmer
		0—255	Linear Dimmer
9	9		CMY Select
		0-127	CMY Disable
		128-255	CMY Enable

10	10	0—255	CMY-C
11	11	0—255	CMY-M
12	12	0—255	CMY-Y
13	13		colour temperature
		0—127	reserve
		128—255	
14	14		CMY colour mixture
		0—255	CMY colour mixture
15	15		Macro Colour
		0-4	white
		5-9	Colour 1
		10-14	Colour 2
		15-19	Colour 3
		20-24	Colour 4
		25-29	Colour 5
		30-34	Colour 6
		35-39	Colour 7
		40-44	Colour 8
		45-49	Colour 9
		50-54	Colour 10
		55-59	Colour 11
		60-64	Colour 12
		65-69	Colour 13
		70-74	Colour 14
75-79	Colour 15		
80-84	Colour 16		

		85-89	Colour 17
		90-94	Colour 18
		95-99	Colour 19
		100-104	Colour 20
		105-109	Colour 21
		110-114	Colour 22
		115-119	Colour 23
		120-124	Colour 24
		125-129	Colour 25
		130-134	Colour 26
		135-139	Colour 27
		140-194	FAST ROTATION - SLOW ROTATION
		195-200	STOP
		201-255	SLOW ROTATION - FAST ROTATION
16	*		Color Fine
		0—255	Linear
17	16		Gobo 1
		0-3	white
		4-9	Gobo 1
		10-15	Gobo 2
		16-21	Gobo 3
		22-27	Gobo 4
		28-33	Gobo 5
		34-39	Gobo 6
		40-45	Gobo 7
		46-51	Gobo 8

		52-57	Gobo 9
		58-63	Gobo 10
		64-69	Gobo 11
		70-75	Gobo 12
		76-81	Gobo 13
		82-87	Gobo 14
		88-95	Gobo 1 Jitter
		96-103	Gobo 2 Jitter
		104-111	Gobo 3 Jitter
		112-119	Gobo 4 Jitter
		120-127	Gobo 5 Jitter
		128-135	Gobo 6 Jitter
		136-143	Gobo 7 Jitter
		144-151	Gobo 8 Jitter
		152-159	Gobo 9 Jitter
		160-167	Gobo 10 Jitter
		168-175	Gobo 11 Jitter
		176-183	Gobo 12 Jitter
		184-191	Gobo 13 Jitter
		192-201	white
		202-227	FAST ROTATION - SLOW ROTATION
		228-229	STOP
		230-255	SLOW ROTATION - FAST ROTATION
			Gobo2
18	17	0-4	white
		5-9	white

		10-39	Gobo1
		40-69	Gobo2
		70-99	Gobo3
		100-129	FAST ROTATION - SLOW ROTATION
		130-135	STOP
		136-165	SLOW ROTATION - FAST ROTATION
		166-195	Gobo 1 Jitter
		196-225	Gobo 2 Jitter
		226-255	Gobo 3 Jitter
19	18		Gobo 3
		0-9	white
		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
		80-94	Gobo 1 Jitter
		95-109	Gobo 2 Jitter
		110-124	Gobo 3 Jitter
		125-139	Gobo 4 Jitter
		140-154	Gobo 5 Jitter
		155-169	Gobo 6 Jitter
		170-184	Gobo 7 Jitter
185-189	white		

		190-222	FAST ROTATION - SLOW ROTATION
		223-255	SLOW ROTATION - FAST ROTATION
20	19		Gobo3 Rot
		0—127	Rotation
		128—190	FAST ROTATION - SLOW ROTATION
		191—192	STOP
		193—255	SLOW ROTATION - FAST ROTATION
21	*		Gobo2 Rotation Fine
		0—255	Linear
22	20		Color7/Frost
		0—127	White
		128—191	Frost
		192—255	Color7
23	21		Prism-zoom
		0—255	Linear
24	22		Prism1
		0-127	Reserve
		128-255	prism1
25	23		Prism-1 Rot
		0—127	Rotation
		128—190	FAST ROTATION - SLOW ROTATION
		191—192	STOP
		193—255	SLOW ROTATION - FAST ROTATION
26	24		Prism2
		0-127	Reserve
		128-255	prism2

27	25		Prism-2 Rot
		0—127	Rotation
		128—190	FAST ROTATION - SLOW ROTATION
		191—192	STOP
		193—255	SLOW ROTATION - FAST ROTATION
28	26		Foucs
		0-255	Linear
29	*		Foucs Fine
		0-255	Linear
30	27		Zoom
		0-255	Linear
31	*		Foucs Fine
		0-255	Linear

5. Trouble shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.