

230W 7R Sharpy Beam Moving Head



User Manual

1. Specifications

◆Lamp Source: 230W Osram Lamp

Color temperature:8,500K

Average Life: 2,000Hrs

◆Electrical

Input Voltage: AC90-240V 50/60HZ

Power Consumption: 280W

◆Control

Big LCD display selectable, can be turned 180°&record the using time

Control Protocol: DMX512 automatic and master/slave mode

Channel: 16CH/20CH

◆Optical System

3in1 optical group combination

Dimming: 0-100% linear adjustment

Strobe: heat-proof plastic+module pressing alloy materials

Focus: Electronic

Prism: Rotating 8-facet prism

Frost filter

Beam angle:0-3.8 degree

◆Movement

Pan:540°

Til:270°

Pan/Tilt Resolution: 16bit

Gobos&Colors

Rotating Gobos: 1 gobos wheel with 16 fixed gobos+open

Colors: 1 color wheel with 14 fixed colors+open

◆Physical

Housing Color: Black

Fixture Connection: 3-Pin DMX in&out, power in

Cooling: Quiet cooling fan and aluminum radiator

Working environment: Indoor

Operation temp:-20~40°C

N.W.:17.00KGs

2. LCD display and touch buttons

LCD Display Panel	MENU	DOWN	UP	ENTER
-------------------	------	------	----	-------

There are four buttons besides the LCD screen (4x12 bit):MENU, DOWN, UP, ENTER

Press MENU to activate the main menu, to return to the upper menu or to cancel the current operation. Press UP/DOWN to browse into the menu options or to adjust the value. Press ENTER to confirm.

3. Menu Instruction

MENU	Setup	----Run Mode
		----DMX Address
		----Channel
		----ArtNet
		---- Invert Pan
		---- Invert Tilt
		---- Pan-Tilt-Swap
		---- Pan-Tilt Encoder
		----No DMX Signal
		---- RDM
		----Display Protection
		----Lamp On @ Startup
		----Screen Invert
		--Color Wheel Linear Change
		--Reset
	Manual	
	System	--Software Version
		--DMX Channel
		--System Error Record
	Advantage	--Sensor Monitoring
--Location Correction		
--Gobos Colors Correction		
	--English/Chinese	
	--Screen Invert	

➤ Screen Invert

System will invert automatically according to gravity direction. No need manual invert. If you don't need auto invert function, you can close it.

➤ No Electricity Set Address Function

PCB is with battery. Even there is no electricity, press ENTER 5 seconds, display will get electricity from battery. It can set the address accordingly.

➤ Setup

Item	Instruction	
Run Mode	DMX	Salve status: receiving DMX signal from DMX console or master
	Auto Run	
	Sound Run	
DMX Address	1~512	Press "Enter" to enter editing. Then, press "Up" or "Down" to modify address. At last, press "Enter" again to confirm the modification and exit.
Channel	17CH	17 Channels
	20CH	20 Channels
Artnet	IP Address	Default 192.168.1.89
	Gateway	Default 255.255.255.0
	Domains	Default1; Range: 0-32767
Invert Pan	Close	
	Open	
Invert Tilt	Close	
	Open	
Pan-Tilt-Swap	Close	
	Open	Exchange Pan/Tilt channel (including fine)
Pan-Tilt Encoder	Open	Use encoder to judge losing step and correct it automatically
	Close	Close the encoder and correction
No DMX Signal	Keeping	Keep running at the original state
	Zero	Motor reset, and stop to run
RDM	Open	Always working
Display Protection	Open	After 30 seconds, it will close the back lighting
	Close	The black lighting is always on
Lamp On @ Startup	Close	After the power on, it will reset directly and don't switch on lamp (at that moment, need to switch on lamp by manual or console)
	Open	After power on, the lamp will switch on automatically, then, reset
Screen Invert	Close	Close Screen Invert
	Open	Open Screen Invert
Reset		Press "Enter", will see the confirm remind, then, press "Enter" again will reset the machine

➤ Manual

This interface is using to control current machine.

Press "Enter" to enter editing. Then, press "Up" or "Down" to modify address. At last, press "Enter" again to confirm the modification and exit.

➤ System

Item	Instruction
Software Version	Current software version
DMX Channel	This interface to see channel's value
System Error Record	If ERR red lamp is on, it means light machine running has problem. You can check it via this interface. Notice: Not all are hall or magnet installation problems. Sometime is motor cable invert connections.

Error Information	Instruction
Motor Reset Fail, Serial Port Error	Driving PCB has no action. It means the wiring connections between display and driving pcb have problems. Or Driving PCB is damaged.
Pan Reset Fail	Pan optoelectronic switch or pan motor has problem
Tilt Reset Fail	Tilt optoelectronic switch or tilt motor has problem
Pan Hall Error	Pan hall problem
Tilt Hall Error	Tilt hall problem
Color Wheel Reset Fail	Color wheel hall or motor has problem
Gobos Wheel Reset	Gobos hall or motor has problem

Fail	
Focus Reset Fail	Focus hall or motor has problem
Lamp Control Fail	Lamp on or off fail is problem from lamp ignitor or lamp itself

➤ **Advantage**

This is machine pass word setting. It is only for professional lighting technician. Default pass word is "up up up down down down". Press "Enter" to confirm the pass word

Item	Instruction
Reset Adjusting	This interface, can adjust pan or tilt motor reset position, that can adjust the production assembly tolerance. The range is -128~+127. +0 means no adjustment.
Sensor Monitoring	It is monitoring light machine's halls and optoelectronic switches

4. DMX Chart

CHANNEL	CHANNEL MODE	
	Std.16CH	Ext.20CH
1	COLOUR	COLOUR
2	STOP/STROBE	STOP/STROBE
3	DIMMER	DIMMER
4	GOBO	GOBO
5	PRISM	PRISM
6	PRISM ROATION	PRISM ROATION
7	FROST	FROST
8	RFU	RFU
9	FOCUS	FOCUS
10	PAN	PAN
11	PAN FINE	PAN FINE
12	TILT	TILT
13	TILT FINE	TILT FINE
14	MACRO FUNCTION	MACRO FUNCTION
15	RESET	RESET
16	LAMP CONTROL	LAMP CONTROL
17		PAN-TILT TIME
18		COLOUR TIME
19		BEAM TIME
20		GOBO TIME

➤ **COLOUR_16CH**

BIT	EFFECT	Remark
255	FAST ROTATION	
.....	
128	SLOW ROTATION	
124-127	Color 14 + WHITE	
120-123	Color 14	
116-119	Color 13 + Color 14	
111-115	Color 13	
107-110	Color 12 + Color 13	
103-106	Color 12	
99-102	Color 11 + Color 12	
94-98	Color 11	
90-93	Color 10 + Color 11	
86-89	Color 10	
82-85	Color 9 + Color 10	
77-81	Color 9	
73-76	Color 8 + Color 9	
69-72	Color 8	
64-68	Color 7 + Color 8	

60-63	Color 7	
56-59	Color 6 + Color 7	
52-55	Color 6	
47-51	Color 5 + Color 6	
43-46	Color 5	
39-42	Color 4 + Color 5	
35-38	Color 4	
30-34	Color 3 + Color 4	
26-29	Color 3	
22-25	Color 2 + Color 3	
18-21	Color 2	
13-17	Color 1 + Color 2	
9-12	Color 1	
5-8	WHITE + Color 1	
0-4	WHITE	

➤ **COLOUR_20CH**

BIT	EFFECT	Remark
255	FAST ROTATION	
.....	
183	SLOW ROTATION	
174-182	Color 14 + WHITE	
168-173	Color 14	
162-167	Color 13 + Color 14	
156-161	Color 13	
150-155	Color 12 + Color 13	
144-149	Color 12	
138-143	Color 11 + Color 12	
132-137	Color 11	
126-131	Color 10 + Color 11	
120-125	Color 10	
114-119	Color 9 + Color 10	
108-113	Color 9	
102-107	Color 8 + Color 9	
96-101	Color 8	
90-95	Color 7 + Color 8	
84-89	Color 7	
78-83	Color 6 + Color 7	
72-77	Color 6	
66-71	Color 5 + Color 6	
60-65	Color 5	
54-59	Color 4 + Color 5	
48-53	Color 4	
42-47	Color 3 + Color 4	
36-41	Color 3	
30-35	Color 2 + Color 3	
24-29	Color 2	
18-23	Color 1 + Color 2	
12-17	Color 1	
6-11	WHITE + Color 1	
0-5	WHITE	

➤ **STOP/STOBE**

BIT	EFFECT	Remark
252-255	OPEN	Control by Dimmer Channel
239-251	RANDOM FAST STROBE	
226-238	RANDOM MEDIUM STROBE	

213-225	RANDOM SLOW STROBE	
208-212	OPEN	Control by Dimmer Channel
207	FAST PULSATION	
.....	
108	SLOW PULSATION	
104-107	OPEN	Control by Dimmer Channel
103	FAST STROBE	
.....	
4	SLOW STROBE	
0-3	CLOSED	

➤ **DIMMER**

BIT	EFFECT	Remark
255	100%	
.....	
0	0%	

➤ **GOBO**

BIT	EFFECT	Remark
255	GOBO 16 SHAKE, FAST SPEED	
.....	
250	GOBO 16 SHAKE, SLOW SPEED	
.....	
166	GOBO 1 SHAKE, FAST SPEED	
.....	
160	GOBO 1 SHAKE, SLOW SPEED	
159	FAST ROTATION	
.....	
118	SLOW ROTATION	
114-117	STOP	
113	SLOW ROTATION	
.....	
72	FAST ROTATION	
68-71	GOBO 17	
64-67	GOBO 16	
60-63	GOBO 15	
56-59	GOBO 14	
52-55	GOBO 13	
48-51	GOBO 12	
44-47	GOBO 11	
40-43	GOBO 10	
36-39	GOBO 9	
32-35	GOBO 8	
28-31	GOBO 7	
24-27	GOBO 6	
20-23	GOBO 5	
16-19	GOBO 4	
12-15	GOBO 3	
8-11	GOBO 2	
4-7	GOBO 1	
0-3	WHITE	

➤ **PRISM**

BIT	EFFECT	Remark
128-255	PRISM INSERTED	
0-127	PRISM EXCLUDED	

➤ **PRISM ROTATION**

BIT	EFFECT	Remark
255	FAST ROTATION	
.....	
193	SLOW ROTATION	

191-192	STOP	
190	SLOW ROTATION	
.....	
128	FAST ROTATION	
0-127	POSITION	

➤ **FROST**

BIT	EFFECT	Remark
128-255	FROST INSERTED	
0-127	FROST EXCLUDED	

➤ **FOCUS**

BIT	EFFECT	Remark
255	100%	
.....	
0	0%	

- **PAN**
- **PAN FINE**
- **TILT**
- **TILT FINE**
- **MACRO FUNCTION**

➤ **RESET - channel 15**

BIT	EFFECT	Remark
128-255	COMPLETE RESET	Reset is activated passing through the unused range and staying 5 seconds.
77-127	PAN/TILT RESET	
26-76	EFFECTS RESET	
0-25	UNUSED RANGE	

➤ **LAMP CONTROL- channel 16**

BIT	EFFECT	Remark
101-255	LAMP ON	Lamp switch passing through the unused range and staying 5 seconds.
26-100	LAMP OFF	
0-25	UNUSED RANGE	

➤ **PAN-TILT TIME**

	Timing Channel	Channel function	Remark	
0-255	Pan-Tilt time	Pan-Tilt-(Pan fine-Tilt fine)	255	SLOW SPEED
		
			0	FAST SPEED

➤ **COLOUR TIME**

	Timing Channel	Channel function	Remark	
0-255	Colour wheel time	Colour wheel	255	SLOW SPEED
		
			0	FAST SPEED

➤ **BEAM TIME**

	Timing Channel	Channel function	Remark	
0-255	Beam time	Dimmer-Frost-Prism	255	SLOW SPEED
		
			0	FAST SPEED

➤ **GOBO TIME**

	Timing Channel	Channel function	Remark	
0-255	Gobo time	Static Gobo	255	SLOW SPEED
		
			0	FAST SPEED