

BEAM 230W MOVING HEAD

(IM-MH230)
AC90~260V/230W 7R



USER MANUAL



beam Lighting



Congratulations on purchasing this Beam 230W 7R Moving Head Light
Thank you for extending your trust in our technology!

Specification

1. Power: 230W
2. Voltage: AC90-260V,50/60Hz;
3. Lamp Source: Osram bulb 7R 230W;
4. Control Mode: DMX512/Maser/Auto/Sound;
5. DMX Channel: 16/20CH;
6. Pan scan: 540°(16bit) Electric correction;
7. Tilt scan: 270°(16bit) Electric correction;
8. Prism: 16 + 8 facet prism;
9. Display: Touch Screen Display;
10. Color Wheel:14 Color + White;
11. Gobos: 17 gobos + white;
12. Strobe: 13 t/s, free strobe and Pulse strobe;
13. With Unique Design G-clamp, no need disassemble, no need screws!
14. With Powercon IN and OUT

Mechanical dimmer

Frost Filter

Rapid and extensive pan and tilt movements

New, high-performance electronics

Eco-friendly: replaces far larger and more expensive spotlights

Electronic ballast fitted as standard

Performance trait:

- 1,Philips Lamp
- 2,completely parallel to the beam, similar to the laser beam, and no nimbus and no halo
- 3,adjustable beam angle from 0 to 3.8°
- 4,compared with a variety of lighting, the power is higher for several times(20m 59800LX)
- 5,8 kinds of patterns of self-turnstile Gobo
- 6,8prism
- 7,X and Y(Pan& Tilt)loudspeaker mute and fast movement
- 8,high-performance electronic components, small size, light weight, easy to transport(only 15kg)
- 9,environmental protection, replaced the big expensive beam light.
- 10,high-performance electronic ballasts

For reasons of safety and approval(CE) the personal reconstruction and/or modification of this product is prohibited. Please observe that damage caused by modifications performed manually to this device is not covered by the warranty.

This product leaves our works in a perfect condition. Please observe all notes in these operating instructions to warrant this condition and the safe operation of the product!

Any damage caused as a result of the non-compliance with these operating instructions leads to the expiration of any warranty claim. The manufacturer does not accept liability for any damage to property or for personal injury resulting from the improper handling of the product, or non-observance of the operating instructions.

Store these operating instructions in a safe place for later reference and pass them to any new holder when selling or lending or leaving this device in the hands of any other party.

Application According to Purpose

This product is a lighting effect which creates special light effects with one lamp. To generate these effects, the product must be connected to mains and a DMX-512 compatible controller.

This product is designed for AC110~127V/50~60Hz operation and exclusively for indoor use.

If used for any purpose other than described in these operating instructions, the device may suffer damage and the warranty expires. Also, any other use is linked with risks such as short circuits, fire, electrical shock, etc. The manufacturer's serial number must never be removed as otherwise the warranty expires.

Notes on Safety

1. Before Operation



Prior to the initial operation of this product, please do the followings

- Read these operating instructions with great care;
- Study and observe all instructions carefully;
- Ensure that everybody and anybody involved in the installation, operation, transport and storage of this product is suitably qualified;
- Verify whether any visible damage was caused during transport. If the power cord, housing or the light are damaged, do not operate the device; contact your specialized dealer immediately.

2. Supply Voltage, Mains Cord and Connection to Mains

The handling of supply voltage, mains cords and connections to mains calls for particular care considering the risk from a life-threatening electric shock, the risk of fire and the risk of short circuits please observe the following notes in particular:

Products operating on supply voltage should be kept out of the reach of children. Therefore ensure the permanent supervision if children are in the immediate vicinity of the product!

For commercial facilities the regulations on the prevention of accidents of the respective trade association must be observed. The operation of this equipment at schools, training facilities, and hobby yourself-help workshops must be supervised responsibly by trained personnel.

Check the product regularly for any damage to the mains cord! Should you discover any damage to the mains cord, do not operate or disconnect this product! Secure the product against accidental operation and contact your specialized dealer.

Always separate the product from mains by holding the mains plug by the handling surface. Never disconnect by holding the line cord! Be sure to connect the product exclusively to AC110~127V/59~60Hz!

Always be sure during installation, operation, transport and when storing the product that the mains cord is not exposed to possible mechanical damage, or damage caused by humidity, fluids, heat or cold!

The product's cable entry must not be exposed to stress from pull! Create the mains connection once the product has been installed only. Always connect the mains plug last!

The product must only be connected to a proper outlet of the public supply grid. Connect the mains cord to suitable outlets only! Use extension cords in compliance with specifications only! Do not allow the mains cord to come into contact with other cords!

Ensure during installation, operation, transport and storage that none of the cables are freely exposed! Never touch the mains cord, mains plug and outlet with wet or damp hands!

When not using the product, and prior to cleaning always disconnect the product from mains! To do so, hold the mains plug by the handling surface and never pull the mains cord!

Never connect the device to dimmer packs!

3. Housing



Always ensure during installation, operation, transport and when storing the product that no shocks or other forces impact the housing!

The housing must not touch onto any other devices or objects during operation!

Easily flammable materials, e.g. decoration material and other surfaces and objects must maintain a minimum distance of 3m to the housing! Walls must maintain a minimum distance of 50cm to the housing! The device must be installed on a fireproof surface only (no carpet)! Always ensure proper circulation of air.

Do not touch the housing during operation it will heat up. The housing is safe to touch approx. 5 minutes following the end of operation!

The device must never be carried via the projector arms. Use the carrying handles only!

Fluids must not enter the housing as this could reduce the protective insulation and may trigger short circuits which may lead to fatal electronics shocks! If fluids have entered, disconnect the mains plug immediately and secure the product against unintentional operation and contact your specialized dealer! Damage caused as a result of fluids entering the housing is exempt from warranty.

No metal parts or other items must enter the housing as this may reduce the protective insulation or trigger short circuits which may lead to fatal electric shocks! If metal parts or other items have entered, disconnect the mains plug immediately, secure the product against unintentional operation and contact your specialized dealer! Damage caused by metal parts or other items in the housing is exempt from warranty.

4. Operating Environment



The product must be operated and stored in a dry environment only! Splash water, rain, humidity, fog may reduce the protective insulation which may lead to fatal electric shocks! The limit value for relative humidity is 50% at 45°C. A minimum distance of 1.5m to a fog machine must be observed, fog saturation in the room must not reduce the visibility to below 10m.

The product must be operated at a temperature range of between -5°C and 45°C only. Protect the product against direct exposure to sunlight or other heat, such as from radiators! If the product is taken from a cold environment into a warm environment it must only be taken into operation once it has reached ambient temperature, since the condensation created by the difference in temperature may destroy the device!

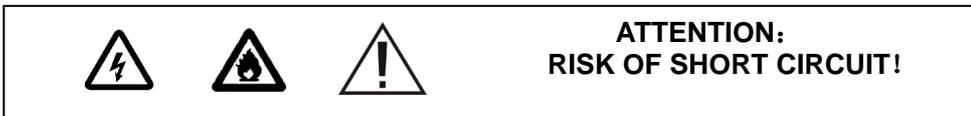
Protect the product against dust! Dust may reduce the protective insulation, which may cause fatal electric shocks!

The product must be operated at altitudes ranging between 20m below and 3000m above sea level only!

The product must not be operated during thunder storms; risk of destruction from surge voltages!

The product must be operated at a minimum distance of 1.5m to lit objects only!

5. Installation



This product can be operated suspended or as stand-alone system.

Should your lighting effect show any signs of damage, do not install the device! In this case, have your lighting effect repaired by your specialized dealer. The manufacturer does not accept responsibility or liability for damage to property or personal injury resulting from an improperly installation!

As a stand-alone system the device must be installed vertically on an absolute planar, firm, fireproof, shock- and vibration-free surface. The installation of this lighting effect must be carried out by trained and professional staff! The installation of this lighting must only be carried out with the appropriate materials!

The suspended installation of this lighting effect necessitates a suitable suspension system! The lighting effect must never be fixed swinging freely in the room. No individuals should linger underneath the lighting effect during suspended installation!

It is a must to install this device with a second independent fixture. Such second fixture must guarantee in the event of failure of the main fixture that no assembly parts will fall down. Use the fixture on the undersurface only.

The light effect unit must be attached via two certified hooks and omega bracket to a tie-bar system. Use the screw threads on the undersurface only.

It must be ensured that an expert inspects the mechanical and safety-relevant installation prior to the initial operation and following major modifications, prior to the renewed operation. It must be ensured that an expert inspects the mechanical and safety-relevant installation at least once a year. It must be ensured that an expert inspects the mechanical installation and the installation of relevance to safety within the framework of an acceptance test at least every four years.

The installation fixture must be as such that it can withstand for a period of 60minutes 10 times the load capacity without harmful deformation.

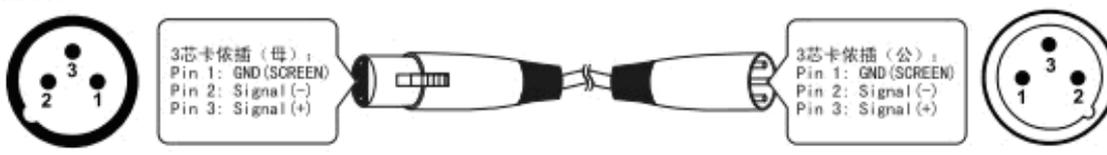
It is prohibited for any individual to unnecessarily stay or pass beneath the installation during any type of assembly work

The light effect unit must be secured by a safety arrester cable if fly-mounted. The cable must withstand 12 times the weigh of the light effect unit Use arrester cables equipped with quick closing links. The dropping distance must not exceed 20 cm. Defect arrester cables or arrester cables that have already been exposed to stress must not be used.

6. Operation



Controls



Link all DMX devices with a DMX-512 controller by using a standard,3-pin DMX cable. Connect the output of the first device with the input of the second device and the output of the second device with the input of the third device and so on.

Connect the mains plug to an outlet.

Operating the product for the first time may generate smoke and odor, this is not a defect. Avoid dis/connecting the product repeatedly and quickly from/with mains! Always wait 15 minutes prior to the next dis/connection!

The device starts not until a self-testing and starting time. If the moving head is ready to start, push and roll the function wheel. The LCD display shows the options as below:

7. Lamps



During operation, the lamps will reach temperatures of up to 600°C. Touching the lamps may cause serious burns! Objects coming into contact with the lamps during and shortly after operation may catch fire!

Disconnect the product from mains prior to installing or before changing a lamp! Allow a lamp to cool for approx. 15 minutes before exchanging it!

Never touch a lamp with bare hands! If damaged or deformed, a lamp must be exchanged!

When exchanging the lamp be sure to use suitable lamps only. Lamps with greater performance generate excessive heat for the product; risk of fire! Damage resulting from the use of an unsuitable lamp is exempt from warranty!

Never connect the lighting effect to the mains prior with opened housing.

8. Fuse



Disconnect the product from the mains prior before changing a fuse.
Only replace the fuse by a fuse of same type and rating! An incorrect fuse could damage or destruct the lighting effect.

Replace a fuse by levering the fuse holder cover with an appropriate screwdriver. Remove the old fuse and place the fuse inside the holder. Replace the fuse holder and insert it.

Never connect the lighting effect to the mains prior with opened housing.

9. Cleaning

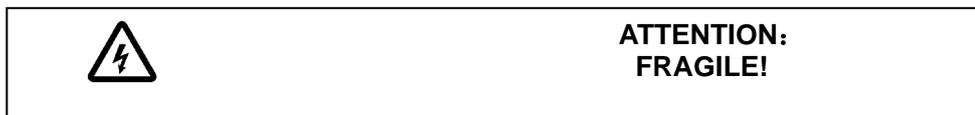


The product must be freed regularly from dust, other deposits and contamination as this may reduce the protective insulation, which may lead to a fatal electric shock!

Before cleaning, always disconnect the product from mains!

This product should be cleaned with a moist cloth only; never use aggressive cleaning agents, solvents or benzine for cleaning.

Ensure that the product is completely dry before operating it again after cleaning!



To avoid damage caused during transport, wrap the product in its original packaging only and handle it with great care during transport!

10. Menu settings:

1. DMX address= xxx
2. Exit
3. Address Address= xxx
4. Parameter ---back
 - a. Control b. Standard c. Model
5. Option --Back
 - a. X Reverse --No/Yes
 - b. Y Reverse -- No/Yes
 - c. XY Exchange --No/Yes
 - d. Dimmer reverse --No/Yes
 - e. Iris Rever --No/Yes
 - f. Turn shortest --No/Yes
 - g. DMX Reset --No/Yes

7. DMX Channel:

CHANNE L	CHANNEL MODE	
	16	20
1	PAN	PAN
2	TILT	TILT
3	PAN FINE	PAN FINE
4	TILT FINE	TILT FINE
5	PAN-TILT TIME	PAN-TILT TIME
6	FROST	FROST
7	STOP/STROBE	STOP/STROBE
8	DIMMER	DIMMER
9	COLOUR WHEEL	COLOUR WHEEL
10	COLOUR Effect	COLOUR Effect
11	Gobo Change	Gobo Change
12	Gobo Effect	Gobo Effect
13	FOCUS	FOCUS
14	PRISM INSERTION	PRISM INSERTION
15	PRISM ROTATION	PRISM ROTATION
16	Lamp_Control&Reset	Lamp_Control&Reset
17	RFU	Macro Fuction
18	RFU	COLOUR TIME
19	RFU	DIMMER-PRISM-FROST TIME
20	RFU	GOBO TIME

Channels Detail

- Ø PAN - channel 1
- Ø TILT - channel 2
- Ø PAN FINE - channel 3
- Ø TILT FINE - channel 4
- Ø Pan-Tilt time-channel 5

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

- Ø FROST - channel 6

BIT	EFFECT	Remark
128-255	FROST INSERTED	FROST
0-127	FROST EXCLUDED	NO FROST

- Ø STOP/STOBE - channel 7

BIT	EFFECT	Remark
253-255	OPEN	
250-252	CLOSED	
241-249	OPEN	
240	FAST STROBE	
.....	
51	SLOW STROBE	
1-50	OPEN	
0	CLOSED	

Ø DIMMER - channel 8

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

Ø COLOUR WHEEL - channel 9

BIT	EFFECT	Remark
255	FAST ROTATION	
.....	
192	SLOW ROTATION	
191	FAST ROTATION	
.....	
127	SLOW ROTATION	
116	BLUE + WHITE	For esay remember, the color value is the multiple of 8.
112	BLUE	
108	CTB 8000 + BLUE	Half color, controlled by 10 channel.
104	CTB 8000	
100	CTO 190 + CTB 8000	The color ratio is adjustable
96	CTO 190	
92	CTO 260 + CTO 190	
88	CTO 260	
84	CYAN + CTO 260	
80	CYAN	
76	MAGENTA + CYAN	
72	MAGENTA	
68	YELLOW + MAGENTA	
64	YELLOW	
60	PINK + YELLOW	
56	PINK	
52	LAVENDER + PINK	
48	LAVENDER	
44	LIGHT GREEN + LAVENDER	
40	LIGHT GREEN	
36	GREEN + LIGHT GREEN	
32	GREEN	
28	AQUAMARINE + GREEN	
24	AQUAMARINE	
20	ORANGE + AQUAMARINE	
16	ORANGE	
12	RED + ORANGE	
8	RED	
4	WHITE + RED	
0	WHITE	

Ø Colour_Effect- channel 10

BIT	EFFECT	Remark
128-255	Colour_Effect	
0-127	Colour_Effect	

Ø STATIC GOBO CHANGE - channel 11

BIT	EFFECT	Remark
255	FAST ROTATION	Positive
.....	
192	SLOW ROTATION	Positive
191	FAST ROTATION	Reverse
.....	
127	SLOW ROTATION	Reverse
119	GOBO 17	The value is a multiple of 7
112	GOBO 16	
105	GOBO 15	
98	GOBO 14	
91	GOBO 13	

84	GOBO 12
77	GOBO 11
70	GOBO 10
63	GOBO 9
56	GOBO 8
49	GOBO 7
42	GOBO 6
35	GOBO 5
28	GOBO 4
21	GOBO 3
14	GOBO 2
7	GOBO 1
0	WHITE

Ø Gobo_Effect- channel 12

BIT	EFFECT	Remark
191-255	FRU	
190	GOBO SHAKE, FAST SPEED	
.....	
1	GOBO SHAKE, SLOW SPEED	

Ø FOCUS - channel 13

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

Ø PRISM INSERTION - channel 14

BIT	EFFECT	Remark
32-255	PRISM INSERTED	
0-31	PRISM EXCLUDED	

Ø PRISM ROTATION - channel 15

BIT	EFFECT	Remark
255	FAST ROTATION	
.....	
192	SLOW ROTATION	
191	SLOW ROTATION	
.....	
128	FAST ROTATION	
0-127	POSITION ADJUSTMENT	

Ø LAMP CONTROL&RESET - channel 16

BIT	EFFECT	Remark
250-255	COMPLETE RESET	Reset is activated passing through the unused range and staying 5 seconds.
206-249	UNUSED RANGE	
200-205	LAMP ON	Lamp switch passing through the unused range and staying 5 seconds.
106-199	UNUSED RANGE	
100-105	LAMP OFF	
0-99	UNUSED RANGE	

Ø MACRO FUNCTION - channel 17

BIT	EFFECT	Remark
0-5	UNUSED RANGE	
6-15	MACRO FUCTION 1	The Macro function 1-15 acts only on the Color, Gobo, Prism, and Prism Rotation.
.....	
146-155	MARC FUCTION 15	
156-165	AUTO MODE 1	
166-175	AUTO MODE 2	The Macro function
176-185	AUTO MODE 3	

186-195	AUTO MODE 4	has priority over other channels. When the macro function is activated, the Channel1, channel2, channel5, and channel6 are invalid.
196-205	AUTO DRAW UP8	
206-215	AUTO DRAW FORWARD 0	
216-225	AUTO DRAW FORWARD STAND8	
226-235	AUTO DRAW FORWARD SLEEP8	
236-245	AUTO RUN RANDOM MODE	
246-255	SOUND CONTROL MODE	

Ø TIMING CHANNELS

	Timing Channel	Channel function	Remark	
18	Colour time	Colour wheel	255	SLOW SPEED
19	Beam time	Dimmer-Prism -Frost
20	Gobo time	Static Gobo	0	FAST SPEED

PS: The advance menu PASSWORD is: UP DOWN UP DOWN

More information welcome to visit: www.imrelax.com

Thank you very much! :)

12. Technical Information

Voltage: AC220-240V/50-60HZ
Lamp: Osram 230W 7R
Total Power: 250W
Fuse: 5A/250V
Step Motor: 13 PCS
Packing Size: 450 x 420 x 550cm
Gross Weight: 18Kg

Please note: All Information is subject to change without prior notice.