

## Beam Moving Head Lighting



Brightness / Stability

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## User Manual

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

## STATEMENT

The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

## DISPLAY PRODUCTION DESCRIPTION

Thank you for choose this B230 products, this model is the moving head light which is the latest development of the smart, efficient products, beautiful shape, smooth R & D, combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design , fully comply with CE standard,accepted international standard DMX512 signal mode.

This moving head lights, use ceramic luminescent film reflector as a condenser system, coupled with the high-quality optical lens components, broadband voltage, a clear pattern, sharp and uniform output light efficiency. the English language selection mode, intuitive operating menu, shortcut.

B230, has 16/20 international standard DMX512 channels optional Horizontal scan: 540 ° vertical scanning 270 ° (16bit precision scanning)electronic correction, LCD color+ single-Key flying shuttle can spin. It can be inverted 180 °, the color wheel is combined with white and 14 colors. The gobo wheel: 17 patterns + white effect round by eight prism and atomization function. 0-100% mechanical dimmer, support mechanical strobe and variable strobe effect, strobe macro function.

The optical system of the lens group electric focusing, the beam angle of 0 to 4 °with overheating protection function Moving head lights are widely used in television, disco, dance halls, nightclubs,large-scale performances and other professional venues.

## 1. PRODUCT INTRODUCTION

### 1.1 BEAM PACKING

Size : 395 (L) ×287 (W) ×495 (H) mm

Net Weight : 17.5KG

Gross Weight:21.5KG

## 2. SAFETY INFORMATION

#### Safety warning message

This product is only suitable for professional use, and does not apply to security for other purposes.

After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible.

This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry to avoid Moisture, overheating or dusty environment. Prevent lamps come into contact with water or any other liquid.

The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or

Shedding caused serious or fatal injury.

Need to read the instructions before use energized or installing.

Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment. If you have any problem for how to safely operate the equipment. Please contact your dealer.

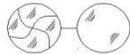
#### 2.1 ANTI-HIGH TEMPERATURE

Ta =40°C



Please don't use the equipment if the temperature above 40°C

#### 2.2 BURST PREVENTION



The lens should be changed if had damaged or any problems. Don't change the non-original manufacturer lens.

Len size:  $\varnothing$  1136×60 mm

#### 2.3 TO PREVENT FALLING WOUNDING



Please don't move the package by one person only.

When Hang the fixture, please must verify that the facilities to be able to withstand the weight of the lamps at least 10 times more.

Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location

## 2.4 UA PROTECTION AND THE BULB EXPLOSION

Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;

Do not use the equipment without the lens screen and the lid;

The lens and the light head covers should be timely replaced if any damage to rupture;

The Fixture should be used with the protection screen together.



## 2.5 PREVENTION OF ELECTIC SHOCK

The electrical connection must only be carried out with corresponding qualifications;

Before installing, make sure you use the power voltage lamps must comply with the identified power, voltage and have an overload or leakage protection;

Each lamp must be properly grounded, installed in accordance with the

relevant standards; 

Cut off the power when stall or replace the lamp and the fuse; 

Prohibit the use of a lightning storm or wet environment.



## 2.6 TO PREVENT BURNING OR FIRE

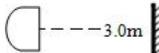
1. The fixture can be mounted directly on the surface of ordinary

combustible material. 

2. Do not short-circuit temperature protection switch or fuse, use the specified type of fuse.

3. The equipment must be installed away from inflammable and explosive materials.

4. The equipment should be projected range of 3 meters away objects and

projectiles temperature less than 60 ° C; ---- 3.0 m. 

5. Fan or ventilation, at least in the range of 0.5 meters can not be an obstacle.

6. Do not place any object on the lens.

7. Handling at least allow the device to cool for 20 minutes.



8. Do not replace the non-original parts.

### 3. PACKAGE

#### 3.1 ATTACHMENT

Beam230 packed with fly-case of one in one ,two in one ,or carton box.

Attach follow accessory.

#### ACCESSORY

CONTENT	QUANTITY
USER MANUL	1
HANG FIXTURE	2
SIGNAL CABLE	1

#### PACAKGE SIZE

CARTON BOX	46x44x57cm
Flight-Case 2 in 1	83x47x71cm

#### 3.2 TRANSPORT PROTECT LOCK

In order to protect the light, there is a protect lock; During the transport , the lock will closed keeping the item in safety state.

#### 3.3 ABOUT PACK STAGE

1. Before packed, make sure power is off, and wait for at least 20mins for cooling down.
2. Before clean the fixture, make sure X, Y axis protect lock closed.
3. After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.
4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.



5. Fly-case only up stacked two layers. Prohibited upside down
6. When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

#### 3.4 UNPACKING

**Note:** Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

1. Open the fly-case, and discover the inside plastic bag.
2. High-lift the product by two handles beside the bottom base and move it out.

3. Before power on, make sure you have opened the X, Y axis lock!

## 4. INSTALL STRANDARD

### 4.1 INSTALL LOCK

B230 can be placed on the stage, or mounted in an arbitrary direction of the truss. Two fast locks system could fix the item easily

### 4.2 EQUIPMENT FIXED

1. Before installation must verify the fast lock is keep in good state, and can withstand at least 10 times the weight of product. Verify that the building can withstand at least 10 times of the total weight of the product and accessory equipment.
2. Fix the hang fixture into the hole, which located on the base of the price. Seize handle of fasteners, clockwise rotate 1/4 turn and lock. Installed other one fastener in the same method.
3. Using the safety cable which can withstand 10 times the weight of the equipment.
4. Make sure the X,Y protect locks are opened, Verify that within 3 meters there is no combustibles .

## WARNING



Fixture must use two fixing devices, and make sure the fixing device have locked! And only fully clockwise rotate 90 ° can lock the hang fixture! Do remember plus a safety rope, and do not connect the safety Rope to plastic handle. It should be connect to the hole on the base!

### 4.3 FIXTURE CONNECT



Attention! One product only can accept one input one output. B200 DMX cable include 3 contact pins: Pin 1, FOR GROUND; Pin 2 connected to the negative polarity signal; The pin 3 connected to the positive polarity signal. DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add DMX 512 signal amplifier. Do not use two outputs to separate the connection, if separate a

continuous connection to branch, DMX512 splitter is necessary.

Attention! Do not overload the connection. One continuous connection can only connect up to 32 devices.



If use the DMX512 splitter. At first connect DMX512 Splitter input terminal to controller .And then connected from the splitter output terminal to next device.

Do as above guide to connect other device, and finally coupled with terminal insertion.

## 5. ALTERNATING CURRENT POWER SUPPLY

### 5.1 VOLTAGE, POWER, FUSE SPECIFICATION

<b>Input Voltage</b>	<b>Total Power</b>	<b>Frequency</b>
<b>110-240V</b>	<b>230W</b>	<b>50/60Hz</b>

<b>Fuse voltage</b>	<b>Fuse voltage</b>	<b>Specification</b>
<b>250V</b>	<b>6A</b>	<b>5×20</b>

### 5.2 POWER PROTECT

The equipment must be operated by professionals; Make sure that the voltage of power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.

#### ATTENTION!



**Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table.**

**If lamp cable is damaged, replacement should be operate by factory or qualified staff. Any question, please contact professionals or talk to a qualified electrician.**

<b>Live wire(L)</b>	<b>Null(N)</b>	<b>Ground wire</b>	
<b>RED</b>	<b>BLUE</b>	<b>Yellow+Green</b>	

## 6. LAMP

### 6.1 LAMP DESCRIPTION

<b>LAMP MODEL</b>	<b>POWER OF LAMP</b>	<b>LIFE/HOUR</b>	<b>COLOR</b>
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			TEMPERATUR E
Philips UHP 5R	200W	2200 HOURS	8000K
Osram VIP	230W	2200 HOURS	8000K
Original Yodn 7R	230W	2200 HOURS	8000K

**WARNING!**



**There is a safety hazard or damage if install similar bulb**  
**To reduce the risk of damage to light,do change the lamp**  
**before using time over 125% of lamp life.**

**6.2 LAMP REPLACE**

Attention! When replace the lamp is forbidden to touch lamp with bare hand, to avoid the greasy dirt stains filament.Filament must be kept clean.



1. Disconnect the power. Before replace lamp, fixture need 20 minutes for lamp cooling. Fasten the head with Y axis protect lock in 60 ° position.
2. Use cross screwdriver to open the light body cover, remove the fan bracket, pull out the bulb cable
3. Open stainless steel tablet holder with one hand and the use other hand to pull out the bulb at oblique 15 °
4. Install the lamp

**7. CONTROL PANEL(DISPLAY)**



LCD Touch Display

Rotating Button

**7.1 LCD Operation Menu**

	Level 1	Level 2	Press Enter	Level 3	Press Enter
<b>DMX ADDR:001</b>	<b>Address 001</b>			<b>001-512</b>	
	<b>Display</b>	<b>Show Reve ◀ ▶</b>		<b>Nature/Reverse</b>	
		<b>Language ◀ ▶</b>		<b>Chinese/English</b>	
		<b>Brig setting ◀ ▶</b>		<b>000-007</b>	
		<b>Backligh ◀ ▶ (Backlit delay)</b>		<b>1Min/5Min/8Min /Light</b>	
		<b>Menu back ◀ ▶</b>		<b>1Min/5Min/8Min /Off</b>	
		<b>Backlit Flash ◀ ▶</b>		<b>Open/Off</b>	
		<b>Return ◀ ▶</b>			
	<b>Feature</b>	<b>XY set up ◀ ▶</b>			
		<b>Short cup ◀ ▶ (shortest Route)</b>		<b>Open/Off</b>	
		<b>Full color ◀ ▶</b>		<b>Off/open</b>	
		<b>Chan Mode ◀ ▶</b>		<b>Smal/Defe/Stan</b>	
		<b>Rece Mode ◀ ▶</b>		<b>DMX/Auto/Wire</b>	
		<b>Run Mode ◀ ▶</b>		<b>Slve/Auto/Musc( Sound)</b>	
		<b>Signal Clear ◀ ▶</b>		<b>Open/Off</b>	
		<b>DMX Reset ◀ ▶</b>		<b>Open/Off</b>	
		<b>Return ◀ ▶</b>			
	<b>Lamp Sett</b>	<b>Default ◀ ▶</b>		<b>Open/Off</b>	
		<b>Control ◀ ▶</b>		<b>Open/Off</b>	
		<b>DMX Lamp ◀ ▶ (DMX lighting)</b>		<b>Open/Off</b>	
		<b>Lamp Time</b>			
		<b>Clear Time</b>			
		<b>Lamp State ◀ ▶</b>		<b>Ilum(cancel)</b>	
		<b>Return ◀ ▶</b>			
	<b>Info See (Information search)</b>	<b>Work Hours</b>			
		<b>Work Times</b>			
		<b>Fan1 Rotation</b>			
		<b>Fan2 Rotation</b>			
		<b>Version</b>		<b>DG01</b>	
		<b>Spare Time</b>		<b>Most</b>	

	<b>Spare cut</b>		<b>Most</b>	
	<b>Return</b>	▶		
<b>Control ( DMX control)</b>	<b>CH01</b>	◀ ▶	<b>000-255</b>	
	<b>CH02</b>	◀ ▶	<b>000-255</b>	
	...		...	
	<b>CH40</b>	◀ ▶	<b>000-255</b>	
<b>Assion Tool</b>	<b>Factory</b>	◀		
	<b>Defaults</b>	◀		
	<b>Redress</b>	◀		
	<b>Ch Define</b>	◀		
	<b>Brightness</b>	◀		
	<b>Check Sum</b>	◀		
	<b>Return</b>	◀		
<b>Chan Leve</b>	◀			
<b>Reset Light</b>	◀ ▶		<b>Annu(cancel)</b>	
<b>Exit Menu</b>	◀			

**Note:**

There is only one Projector to be set as a Master in a signal Cable. If Master's functions used, Please disable DMX control signal.

When multiple projectors' work together in synchronous control state, Parameters can be transmitted from the master projector to the slave projectors such as DMX channel mode, Display setting status and operation mode (User memory data is included).

Before parameters transmitted, the projector which will send parameters should be set as a Master and others be as Slaves.

**8.DMX PROTOCOL**

16Channel	20 Channel	DMX Value	Description
1CH Color	1CH Color	0-4	white
		5-8	White +color1
		9-12	Color1
		13-17	Color1+Color2
		18-21	Color2+Color3
		22-25	Color3
		35-38	Color4
		39-42	Color4+Color5
		43-46	Color5
		47-51	Color5+Color6
		52-55	Color6
		56-59	Color6+Color7
		60-63	Color7
		64-68	Color7+Color8
		69-72	Color8
		73-76	Color8+Color9
		77-81	Color9
		82-85	Color9+Color10
		86-89	Color10
		90-93	Color10+Color11
94-98	Color11		
99-102	Color11+Color12		
103-106	Color12		
107-110	Color12+Color13		
111-115	Color13		
116-119	Color13+Color14		
120-123	Color14		
124-127	Color14+Color15		
128-255	Color15		

2CH Strobe	2CH Strobe	0-3	white
		4-103	Strobe effect from slow to fast
		104-107	white
		108-207	Strobe effect from slow to fast
		208-212	White
		213-225	Random strobe effect,slow
		226-238	Random strobe effect,middle
		239-251	Random strobe effect,fast

		252-255	white
<b>3CH Dimmer</b>	<b>3CH Dimmer</b>	0-255	Linear dimming from 0% to 100%
<b>4CH Gobo wheel</b>	<b>4CH Gobo wheel</b>	0-3	Blank
		4-7	Gobo 1
		8-11	Gobo 2
		12-15	Gobo 3
		16-19	Gobo 4
		20-23	Gobo 5
		24-27	Gobo 6
		28-31	Gobo 7
		32-35	Gobo 8
		36-39	Gobo 9
		40-43	Gobo 10
		44-47	Gobo 11
		48-51	Gobo 12
		52-55	Gobo 13
		56-59	Gobo 14
		60-63	Gobo 15
		64-67	Gobo 16
		68-71	Gobo 17
		72-113	Backward gobo rotation from fast to slow
		114-117	Open
		118-159	Forward gobo rotation from slow to fast
		160-166	Shake from slow to fast : Gobo 1
		167-172	Shake from slow to fast : Gobo 2
		173-179	Shake from slow to fast : Gobo 3
		180-185	Shake from slow to fast : Gobo 4
		186-191	Shake from slow to fast : Gobo 5
192-198	Shake from slow to fast : Gobo 6		
199-204	Shake from slow to fast : Gobo 7		
205-211	Shake from slow to fast : Gobo 8		
212-217	Shake from slow to fast : Gobo 9		
218-223	Shake from slow to fast : Gobo 10		
224-230	Shake from slow to fast : Gobo 11		
231-236	Shake from slow to fast : Gobo 12		
237-243	Shake from slow to fast : Gobo 13		
244-249	Shake from slow to fast : Gobo 14		

		250-255	Shake from slow to fast : Gobo 15
5CH Prism	5CH Prism	0-127	White
		128-255	Prism
6CH Prism Rotating	6CH Prism Rotating	0-127	Prism Fine
		128-189	Backward rotate from fast to slow
		190-255	Forward rotate from slow to fast
7CH Macro	7CH Macro	0-255	Macro
8 CH Frost	8 CH Frost	0-127	white
		128-255	Frost effect
9CH Focus	9CH Focus	0-255	Linear Focus
10CH Pan	10CH Pan	0-255	0-540°
11CH Pan Fine	11CH Pan Fine	0-255	Pan Fine
12CH Tilt	12CH Tilt	0-255	0-270°
13CH Tilt Fine	13CH Tilt Fine	0-255	Tilt Fine
14CH XY Speed	Blank	0-255	linearity control/Blank
15CH Reset	15CH Reset	128	Reset All
16CH Lamp Control	16CH Lamp Control	63	Lamp off by Controller
		178	Lamp on by Controller
	18CH color speed adjust	0-255	linearity control
	17CH XY Speed	0-255	linearity control
	19CH Focus speed adjust	0-255	linearity control
	20CH Patterns speed adjust	0-255	linearity control