

# Beam 7R Hybrid Plus

## USER MANUAL



**Congratulations on purchasing this 230W moving Beam Light**  
**Thank you for extending your trust in our technology!**

Voltage :110V/240V AC, 50/60Hz  
Power Consumption:260W  
Lamp:7R 230W Osram (DMX on/off)  
Lumen output:120000LM/10meter  
Color Temperature:8000K  
Lens:3-layer optic glass lens  
Prism:8 Prism rotation  
Gobo:Gobo wheel with 14 + 1gobos  
Colors:Color wheel with 14 +1colors,single rotation rainbow effect  
DMX Channel: 16/20CH

**Frost function**

Control:Master-slave mode  
DMX Mode:Auto mode  
Head movement:Pan 540° (16bit) Electric correction  
Tilt 270° (16bit) Electric correction  
with auto-correction function

Focus :Double automatic focusing

Dimmer:Independent dimmer channel, 0-100% linear dimmer

Strobe:Independent strobe channel, 1-13times/s, speed adjustable

LAMP DMX ON/OFF: LAMP DMX ON/OFF, ignited by inverter, protect and lengthen the lifetime of the bulb

Other functions

Fixture and lamp usage time display

Highly Positioning precision

Adjustable fan speed

Built-in analyzer for easy fault finding, error messages

Input signal isolating protection

Body Size: 47\*33\*27cm

Net Weight: 11Kg

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 hte 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 specila light effects with one lamp.Togenerate these effects,the product must be connected to mains and a DMX-512 compatible controller.

This product is designed for AC110~240V/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 or self-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/50~60Hz!

Always insure 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 a dimmer packer!

### 3. Housing



Always insure 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 a 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 electric 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.

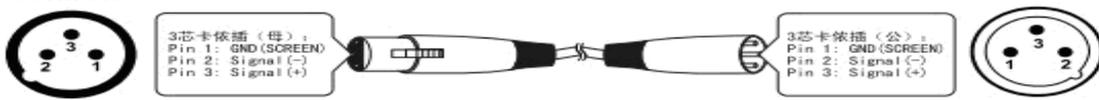
It is prohibited for any individual to unnecessarily stay or pass beneath the installation during any type of assembly work

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 odour, 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. DMX channel

CHANNEL1	CHANNEL2	CHANNEL NAME	VALUE	
CH1	CH1	COLOR	0-4	white
			5-9	White +Color1
			10-13	Color1
			14-18	Color1 + Color2
			19-22	Color2
			23-27	Color2 + Color3
			28-31	Color3
			32-36	Color3 + Color4
			37-40	Color4
			41-45	Color4 + Color5
			46-49	Color5
			50-54	Color5 + Color6
			55-58	Color6
			59-63	Color6 + Color7
			64-68	Color7
			69-72	Color7 + Color8
			73-77	Color8
			78-81	Color8 + Color9
			82-86	Color9
			87-90	Color9 + Color10
			91-95	Color10
			96-99	Color10 +Color11
			100-104	Color11
105-108	Color11 + Color12			
109-113	Color12			
114-117	Color12 + Color13			
118-122	Color13			
123-127	Color13 + Color14			
128-255	From slow to fast forward ranibow			
CH2	CH2	STROBE	0-3	closed
			4-103	From slow to fast strobe pluse
			104-107	on
			108-207	From slow to fast
			208-212	on
			213-251	From slow to fast strobe random
			252-255	on

<b>CH3</b>	<b>CH3</b>	<b>DIMMER</b>	0-255	0-100% dimmer
<b>CH4</b>	<b>CH4</b>	<b>GOBO</b>	0-5	white
			6-10	gobo 1
			11-15	gobo 2
			16-20	gobo 3
			21-25	gobo 4
			26-30	gobo 5
			31-35	gobo 6
			36-40	gobo 7
			41-45	gobo 8
			46-50	gobo 9
			51-55	gobo 10
			56-60	gobo 11
			61-65	gobo 12
			66-70	gobo 13
			71-75	gobo 14
			76-120	From slow t fast positive fanibow effect
			121-122	stop
			123-166	from slow to fast backward
			167-172	slow to fast gobo sharke1
			173-179	slow to fast gobo sharke2
			180-185	slow to fast gobo sharke3
			186-191	slow to fast gobo sharke4
			192-198	slow to fast gobo sharke5
			199-204	slow to fast gobo sharke6
			205-211	slow to fast gobo sharke7
212-217	slow to fast gobo sharke8			
218-223	slow to fast gobo sharke9			
224-230	slow to fast gobo sharke10			
231-236	slow to fast gobo sharke11			
237-243	slow to fast gobo sharke12			
244-249	slow to fast gobo sharke13			
250-255	slow to fast gobo sharke14			
<b>CH5</b>	<b>CH5</b>	<b>PRISM</b>	0-127	move prism
			128-255	Insert prism
<b>CH6</b>	<b>CH6</b>	<b>PRISM ROTATION</b>	0-127	0-400 degree
			128-190	From fast to slow forward rotation
			191-192	Stop
			193-255	From slow to fast backfard rotation
<b>CH7</b>	<b>CH7</b>	<b>BLANK</b>		
<b>CH8</b>	<b>CH8</b>	<b>FROST</b>	0-255	0-100% insert frost
<b>CH9</b>	<b>CH9</b>	<b>FOCUS</b>	0-255	From far to closed
<b>CH10</b>	<b>CH10</b>	<b>PAN</b>	0-255	0-540 degree
<b>CH11</b>	<b>CH11</b>	<b>PAN FINE</b>	0-255	
<b>CH12</b>	<b>CH12</b>	<b>TILT</b>	0-255	0-270 degree
<b>CH13</b>	<b>CH13</b>	<b>TILT FINE</b>	0-255	
<b>CH14</b>	<b>CH14</b>	<b>BLANK</b>		
<b>CH15</b>	<b>CH15</b>	<b>RESETS</b>	128-255	3 seconds reset
<b>CH16</b>	<b>CH16</b>	<b>LAMP</b>	26-100	3 seconds lamp off
			101-255	3seconds lamp on

	<b>CH17</b>	<b>PAN/TILF SPEED</b>	0-255	Fast to slow
	<b>CH18</b>	<b>COLOR WHEEL SPEED</b>	0-255	Fast to slow
	<b>CH19</b>	<b>FOCUS SPEED</b>	0-255	Fast to slow
	<b>CH20</b>	<b>GOBO SPEED</b>	0-255	Fast to slow