



# SMART BEAM 100LED+

## LED BEAM



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

User manual

**Please read the instructions carefully before use**

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Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.  
For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly.

We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



**CAUTION!**

Keep this device away from rain and moisture!



**CAUTION!**

Unplug mains lead before opening the housing!

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow carefully the instructions of this manual

## **INTRODUCTION:**

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3-Pin DMX cable
3. Two bracket clamps
4. One English user manual

( Flight case, Clamps are optional, please contact your dealer )

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

## **GENERAL GUIDELINES**

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6<sup>th</sup> page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed

to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0.5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

## SAFETY INSTRUCTIONS



### CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.

2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

### ▲ Important:

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class I . Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually. Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



**CAUTION!**

Never touch the device during operation!  
The housing may heat up!



**CAUTION!**

Never look directly into the light source,  
As sensitive persons may suffer an epileptic shock.

**Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.**

## **CLEANING AND MAINTENANCE**

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



**CAUTION!**

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

## **TECHNICAL PARAMETERS**

### **Power supply**

AC100V~240V, 50/60Hz

Power consumption: 180W

### **Light source**

1\*100W LED

Rated life: 50,000 hrs

Color temperature: 6600K

CRI > 70

### **Effect**

Beam angle: 2° 81000lux@5m@Min angle

Color wheel:13 color+ white

Fixed gobo:19 gobos + white

Prism: 8 facet prism with bi-direction rotation

Frost filter for soft-edge projection

Focusing: 0-100% linear

Strobe: 1-25 hz, random and pulse flash

Dimmer: 0-100% linear

### **Control**

Pan/Tilt: 540/270° & Infinity

Control mode: DMX512

DMX channels: 14/15/16

XLR in & out: 3-pin

Net weight: 10kg

Carton box(1-in-1):

Size: 61×41×31cm

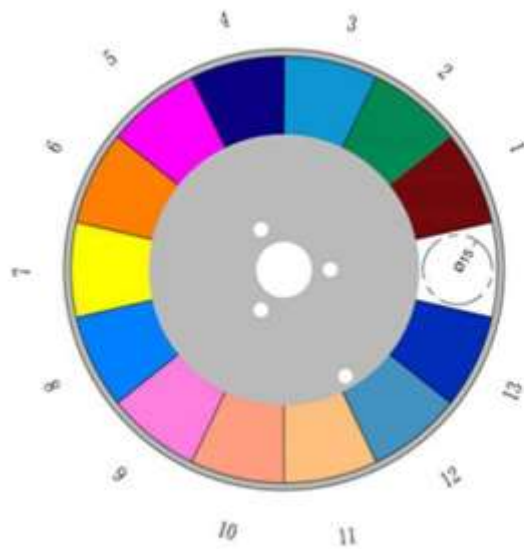
Packed weight: 12.5kg

Flight case(4-in-1):

Size: 70×61×74cm

Packed weight:50kg

## COLOR WHEEL



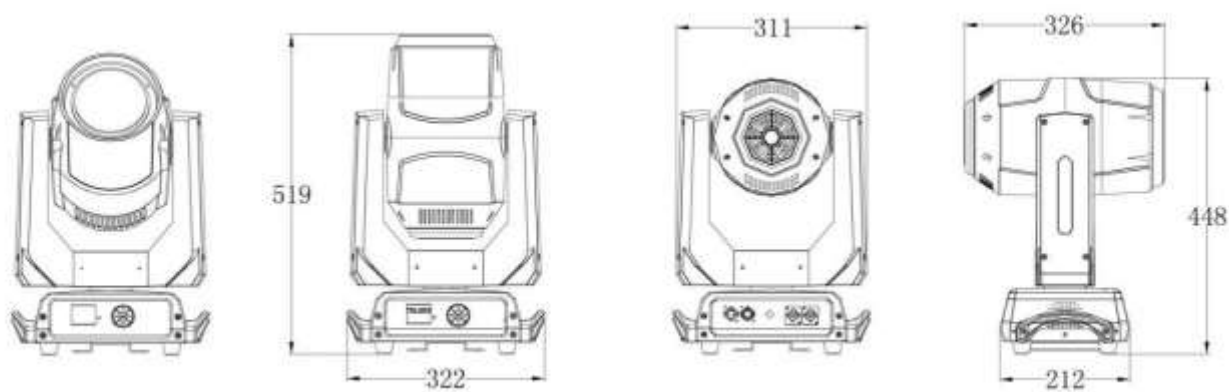
- |               |              |
|---------------|--------------|
| 1 Red         | 8 Blue       |
| 2 Green       | 9 Pink       |
| 3 Light blue  | 10 CTO3200K  |
| 4 Fluorescent | 11 CTO2500K  |
| 5 Magenta     | 12 CTB8000K  |
| 6 Orange      | 13 Dark blue |
| 7 Yellow      |              |



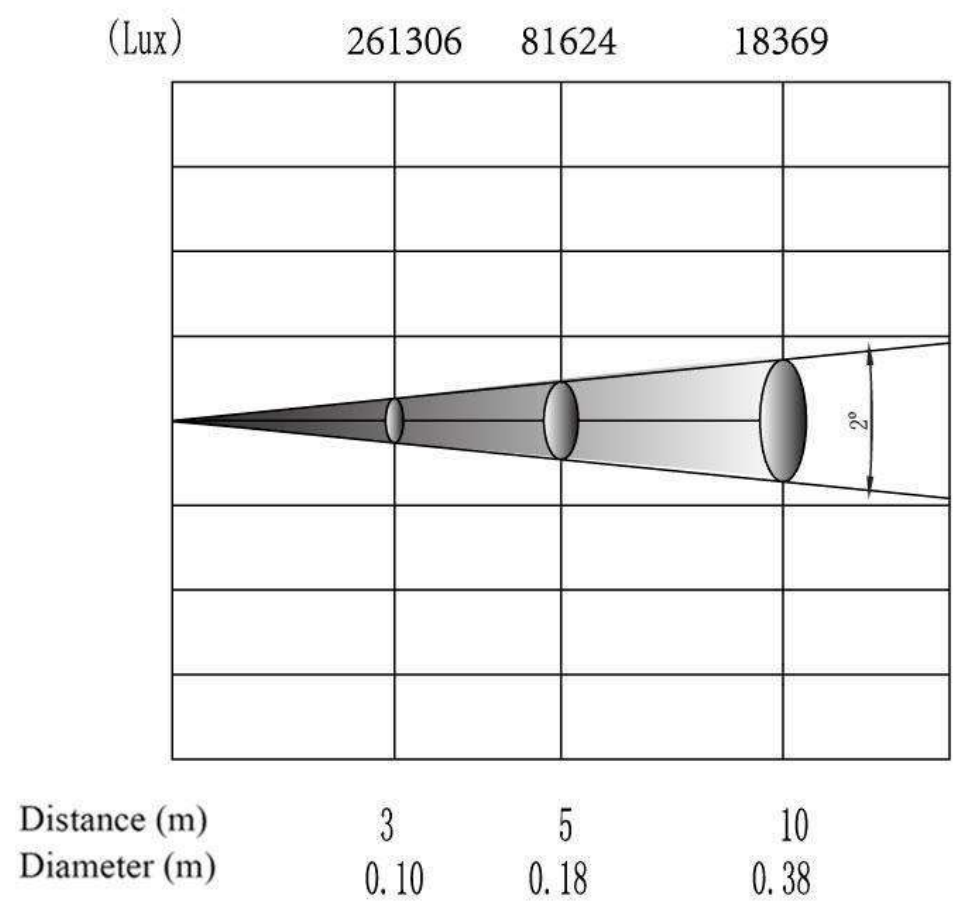
## FIXED GOBO WHEEL



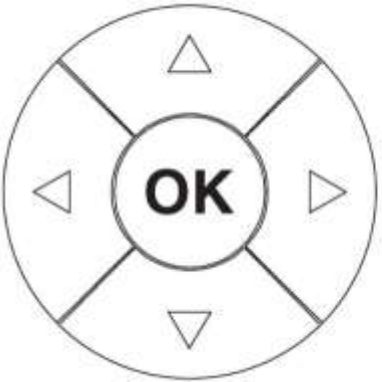





**FIXTURE SIZE**



**PHOTOMETRICS**



## FUNCTIONS OF BUTTONS

	 Confirms the displayed value, or activates the displayed function, or enters the successive menu.
	 DOWN Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
	 UP Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
	 LEFT Return to the top level.
	 RIGHT Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menu.

MENU SETTING			
Address	Setting Address*		
Run Mode	DMX	14CH 15CH 16CH	
	AUTO TEST		
	Manual Test	PAN	0-255
		PAN ROT	0-255
		Tilt	0-255
		Tilt ROT	0-255
		P/T speed	0-255
		Dimmer	0-255
		Shutter	0-255
		Color	0-255
		Gobo	0-255
		Prism&Rota	0-255
		Forst	0-255
		Focus	0-255
	AUTO		
	Sound		
	Pan Reverse	Yes NO	

Setting	Tilt Reverse	Yes NO	
	Screen Reverse	Yes NO	
	Pan Angle	0-540	
	Tilt Angle	0-270	
	Sensitivity	0-99	
	Language	EN CN	
	Reset Function		
	Factory Setting		
SysInFo	VRE		
	Running Mode		
	DMX Address		
	Temperature		

## CHANNEL

CH	14CH	CH	15CH	CH	16CH
1	COLOR	1	COLOR	1	PAN
2	SHUTTER	2	SHUTTER	2	PAN 16Bit
3	DIMMER	3	DIMMER	3	Tilt
4	DIMMER 16Bit	4	GOBO	4	Tilt 16Bit
5	GOBO	5	PRISM	5	PAN/Tilt Speed
6	PRISM	6	PRISM ROT	6	PAN ROT
7	PRISM ROT	7	DIMMER 16Bit	7	TILT ROT
8	FOCUS	8	-----	8	DIMMER
9	PAN	9	FOCUS	9	DIMMER 16Bit
10	PAN 16Bit	10	PAN	10	SHUTTER
11	Tilt	11	PAN 16Bit	11	COLOR
12	Tilt 16Bit	12	Tilt	12	GOBO
13	CONTROL	13	Tilt 16Bit	13	PRISM&PRISM ROT
14	FORST	14	FORST	14	FORST

		15	CONTROL	15	FOCUS
				16	CONTROL

	FUNCTION	DMX	Description
1	PAN	0-255	0-540°
2	PAN 16Bit	0-255	16bit
3	Tilt	0-255	0-270°
4	Tilt 16Bit	0-255	16bit
5	PAN/Tilt Speed	0-255	From fast to slow
6	PAN ROT	0-255	0-540°
7	TILT ROT	0-255	0-270°
8	DIMMER	0-255	From 0% to 100%
9	DIMMER 16Bit	0-255	From 0% to 100%
10	SHUTTER	0-3	Shutter closed
		4-7	Shutter open
		8-76	Synchronous strobe from slow to fast
		77-145	Pulse strobe from slow to fast
		146-215	Random strobe from slow to fast
		216-255	Shutter open
11	COLOR	0-5	Open
		6-11	Red
		12-17	Green
		18-23	Light blue
		24-29	Fluorescent
		30-35	Magenta
		36-41	Orange
		42-47	Yellow
		48-53	Blue
		54-59	Pink
		60-65	CTO3200K
		66-71	CTO2500K
		72-77	CTB8000K
		78-79	Dark blue
		80-90	Open+ Red
		91-97	Red+ Green
		98-104	Green+ Light blue

		105-111	Light blue + Fluorescent
		112-128	Fluorescent + Magenta
		129-135	Magenta +Orange
		136-142	Orange +Yellow
		143-149	Yellow +Blue
		150-156	Blue +Pink
		157-163	Pink +CTO3200K
		164-170	CTO3200K+CTO2500K
		171-177	CTO2500K+CTB8000K
		178-184	CTB8000K+Dark blue
		190-221	Forwards rainbow effect from fast to slow
		222-223	No rotation
		192-255	Backwards rainbow effect from slow to fast
12	GOBO	0-2	Open
		3-5	Gobo 1
		6-8	Gobo 2
		9-11	Gobo 3
		12-14	Gobo 4
		15-17	Gobo 5
		18-20	Gobo 6
		21-23	Gobo 7
		24-26	Gobo 8
		27-29	Gobo 9
		30-32	Gobo 10
		33-35	Gobo 11
		36-38	Gobo 12
		39-41	Gobo 13
		42-44	Gobo 14
		46-48	Gobo 15
		49-51	Gobo 16
		52-54	Gobo 17
		56-58	Gobo 18
		59-61	Gobo 19
		65-70	Gobo 1 shake slow to fast
		71-73	Gobo 2 shake slow to fast
		74-76	Gobo 3shake slow to fast
		77-79	Gobo 4 shake slow to fast

		80-82	Gobo 5 shake slow to fast
		83-85	Gobo 6 shake slow to fast
		86-88	Gobo 7 shake slow to fast
		89-91	Gobo 8 shake slow to fast
		92-94	Gobo 9 shake slow to fast
		95-97	Gobo 10 shake slow to fast
		98-100	Gobo 11 shake slow to fast
		101-103	Gobo 12 shake slow to fast
		104-106	Gobo 13 shake slow to fast
		107-109	Gobo 14 shake slow to fast
		110-112	Gobo 15 shake slow to fast
		113-115	Gobo 16 shake slow to fast
		116-118	Gobo 17 shake slow to fast
		119-121	Gobo 18 shake slow to fast
		122-124	Gobo 19 shake slow to fast
		125-127	White
		128-191	Forwards rainbow effect from fast to slow
		192-255	Backwards rainbow effect from slow to fast
13	PRISM&PRISM ROT	0-15	No rotation
		16-31	Prism effect
		32-159	Forwards rotation from slow to fast
		160-168	No rotation
		169-255	Backwards rotation from slow to fast
14	FORST	0-255	Frost effect
15	FOCUS	0-255	Continuous adjustment from far to near
16	CONTROL	0-139	Open
		140-149	P/T reset
		150-159	Color reset
		160-169	Gobo reset
		170-179	Strobe/Prism reset
		180-189	Open
		190-199	Frost/Focus/Zoom reset
		200-209	All reset
		210-255	Open

## IMPORTANT

To prevent accidental breakage of the effects, which could collide with each others during transport, before switching the projector OFF, check that all the fixture Channels have been excluded (DMX level = 0 bit.).

Remember to "Switch-Off" the bulb, before to "Switch-Off" the fixture.