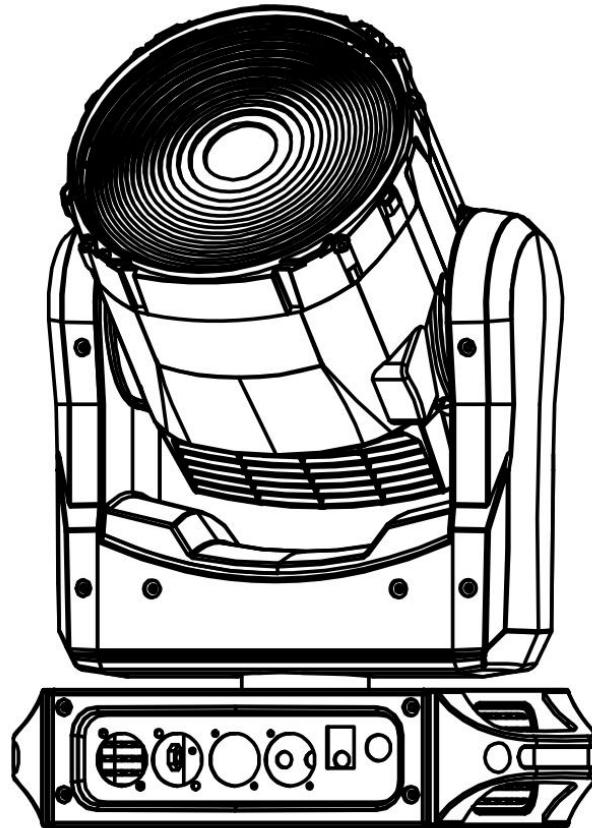


MAC ONE



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

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 device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of 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(5 Pin optional)
3. Folding Clamps
4. One safety rope
5. One English user manual

(Flight case is 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., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th 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

LIGHT SOURCE & OPTIC

Beam source: 1 x 150W RGBL LED

Backlight: 24 x 0.25W RGB LED

Maximum total beam LED engine power: 150 W

Maximum backlight LED engine total power: 6 W

Minimum lifespan of LED:>50000 hours (>70% luminous output)

Luminous output of the light engine: 5700 lumens

Lamp's luminous output width: 2500 lumens

The luminous output of the lamp is very narrow: 1900 lumens

Narrow peak luminous intensity: 375000cd

Color temperature: adjustable 2000K-12850K (+/-200K)

EFFECTS

Dimming: 16 bits linear 0-100% smooth dimming

Front lens diameter: 150 millimeters (5.91 inches)

Zoom range: 1:5

Half peak full zoom range (beam angle): 4 ° -19 °

Full zoom range (field of view) of the tenth peak: 6 ° -27 °

CONTROL & PROGRAM

Channel: 20CH/36CH/108CH/20aCH

AC power input/through: Power control TRUE1 top

DMX and RDM data input/transmission: 5-pin locking XLR

Ethernet (Art Net, sACN, and P3) input/pass through, including fault-tolerant bypass: etherCON

POWER SUPPLY

Voltage: 100-240V, 50/60Hz

Power consumption: 200 W

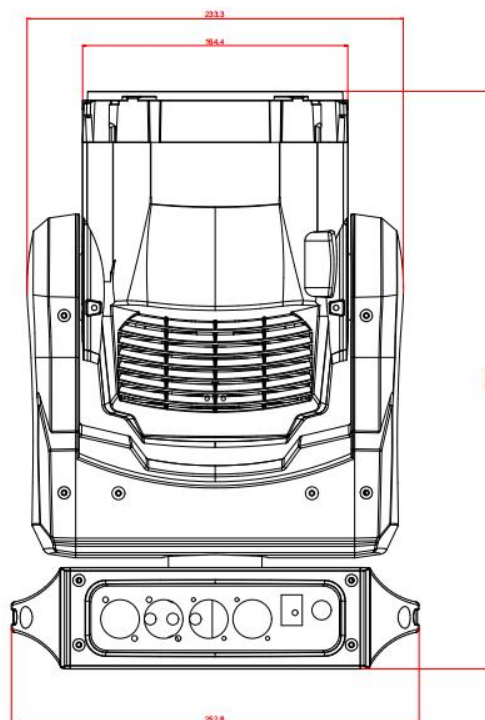
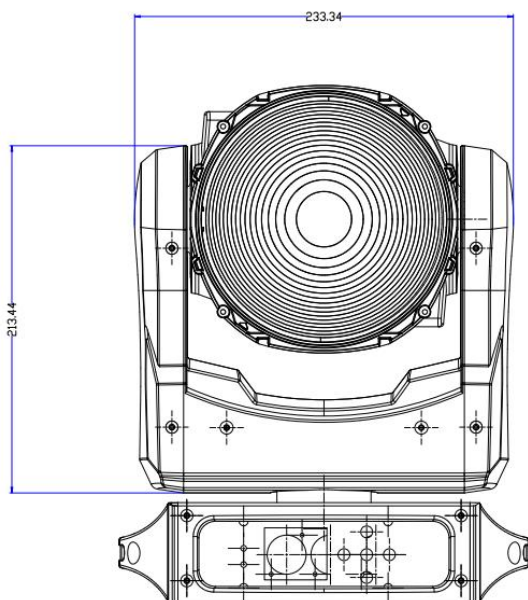
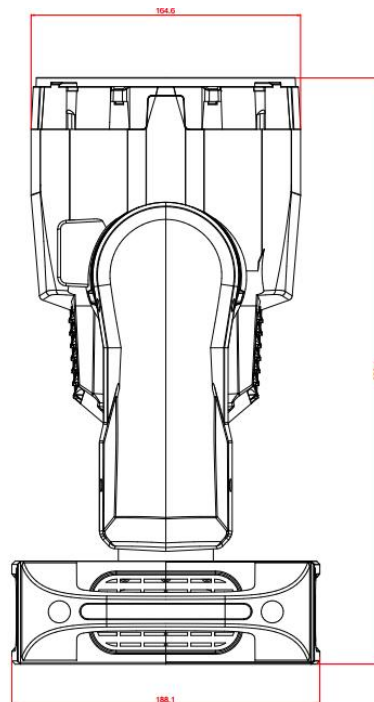
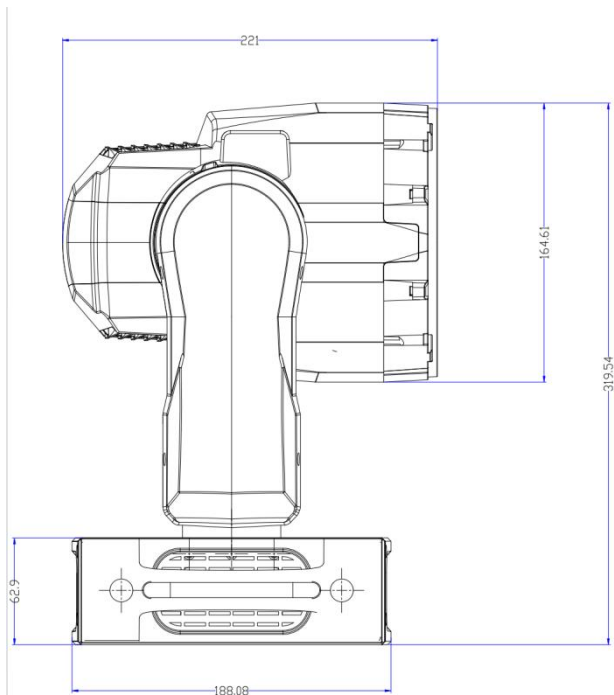
BODY

IP20

WEIGHT & SIZE

Size: 255 * 185 * 370MM

Net weight : 4.5KG



CHANNEL LIST

Compact DMX Mode 20CH channel data sheet

Channel	DMX Value	Function	Windows default
1		Strobe/shutter	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–200	Strobe (slow → fast)	
	201–210	Shutter open	
	211–255	Random strobe (slow → fast)	
2	0-65535	Dimmer	
3		Close->Open	
4	0-65535	Red	
5		Intensity 0 → 100%	
6	0-65535	Green	
7		Intensity 0 → 100%	
8	0-65535	Blue	
9		Intensity 0 → 100%	
10		CTC	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	...		
	255	12850K	
11		Tint (Green Magenta Shift)	
	0	$\Delta_{uv} - 0.05$ (full shift towards magenta)	
	1-126	$\Delta_{uv} - 0.05 \rightarrow \Delta_{uv} 0.00$	

	127-128	Δ_{uv} 0.00 (no shift - on black body curve)	
	129-254	Δ_{uv} 0.00 $\rightarrow$ Δ_{uv} + 0.05	
	255	Δ_{uv} + 0.05 (full shift towards green)	
12		Virtual color wheel	
	0-10	Close	
	11-106	LEE...	
	107-255	Close	
13		Zoom	
	0-51400	Narrow $\rightarrow$ wide	
14	51401-57825	Pulse forward fast $\rightarrow$ slow	
	57826-59110	Zoom stops at current position	
	59111-65535	Pulse backward slow $\rightarrow$ fast	
15		Pan	
16	0-65535	Left $\rightarrow$ right	
17		Tilt	
18	0-65535	Left $\rightarrow$ right	
19		Fixture control / settings	
	0-9	No Function	
	10-14	Reset fixture – 5 sec.	
	15-16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19-22	No function	
	23	Linear dimmer curve – 1 sec.	

	24	Square law dimmer curve (default) – 1 sec.	
	25	Inverse square law dimmer curve – 1 sec.	
	26	S-Curve dimmer curve – 1 sec.	
	27-255	No Function	
20		LED PWM frequency	
	0-255	No function	

Base DMX Mode 36CH channel data sheet

Channel	DMX Value	Function	Windows default
21	0-255	No Function	
22		Aid Led Effect	
	0-51	No Function	
	52-255	Aid Led Effect	
23		Aid Led Effect Speed	
	0–255	Aid Led Effect Speed(slow → fast)	
24		No Function	
	0-255	No Function	
25		No Function	
	0–255	No Function	
26		No Function	
	0–255	No Function	
27		Backlight strobe/shutter	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–255	Strobe (slow → fast)	
28	0-65535	Backlight Dimmer	
29		Close->Open	
30	0-255	Backlight Red	

		Intensity 0 → 100%	
31	0-255	Backlight Green	
		Intensity 0 → 100%	
32	0-255	Backlight Blue	
		Intensity 0 → 100%	
33		Backlight CTC	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	...		
	255	12850K	
34		BacklightTint (Green Magenta Shift)	
	0	$\Delta_{uv} - 0.05$ (full shift towards magenta)	
	1-126	$\Delta_{uv} - 0.05 \rightarrow \Delta_{uv} 0.00$	
	127-128	$\Delta_{uv} 0.00$ (no shift - on black body curve)	
	129-254	$\Delta_{uv} 0.00 \rightarrow \Delta_{uv} + 0.05$	
	255	$\Delta_{uv} + 0.05$ (full shift towards green)	
35		BacklightVirtual color wheel	
	0-10	Close	
	11-255	LEE...	
36		No Function	
	0–255	No Function	

Base DMX Mode 108CH channel data sheet

Channel	DMX Value	Function	Windows default
37		Backlight Pixel 1 Red	
	0-255	0 → 100%	
38		Backlight Pixel 1 Green	
	0-255	0 → 100%	
39		Backlight Pixel 1 Blue	
	0-126	0 → 100%	
...	...	...	
106		Backlight Pixel 24 Red	
	0-255	0 → 100%	
107		Backlight Pixel 24 Green	
	0-255	0 → 100%	
108		Backlight Pixel 24 Blue	
	0-255	0 → 100%	

Compact Direct DMX Mode 20aCH, channel data sheet

Channel	DMX Value	Function	Windows default
1		Strobe/shutter	
	0-19	Shutter closed	
	20-49	Shutter open	
	50-200	Strobe (slow → fast)	
	201-210	Shutter open	
	211-255	Random strobe (slow → fast)	

2	0-65535	Dimmer	
3		Close->Open	
4	0-65535	Red	
5		Intensity 0 → 100%	
6	0-65535	Green	
7		Intensity 0 → 100%	
8	0-65535	Blue	
9		Intensity 0 → 100%	
10	0-65535	Lime	
11		Intensity 0 → 100%	
12	No Function		
13		Zoom	
	0-51400	Narrow → wide	
14	51401-57825	Pulse forward fast → slow	
	57826-59110	Zoom stops at current position	
	59111-65535	Pulse backward slow → fast	
15		Pan	
16	0-65535	Left → right	32768
17		Tilt	
18	0-65535	Left → right	32768
19		Fixture control / settings	
	0-9	No Function	
	10-14	Reset fixture – 5 sec.	
	15-16	No function	
	17	Reset Beam only – 5 sec.	

	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	23	Linear dimmer curve(default) – 1 sec.	
	24	Square law dimmer curve – 1 sec.	
	25	Inverse square law dimmer curve – 1 sec.	
	26	S-Curve dimmer curve – 1 sec.	
	27-255	No function	
20		No function	
	0-255	No function	

REMARK

The product has perfect performance and integrity packing. All users should be strictly comply with the warning and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

Thank you again for your patronage!
We will be offering sincere service as always,
Wish you have a good lighting journey!