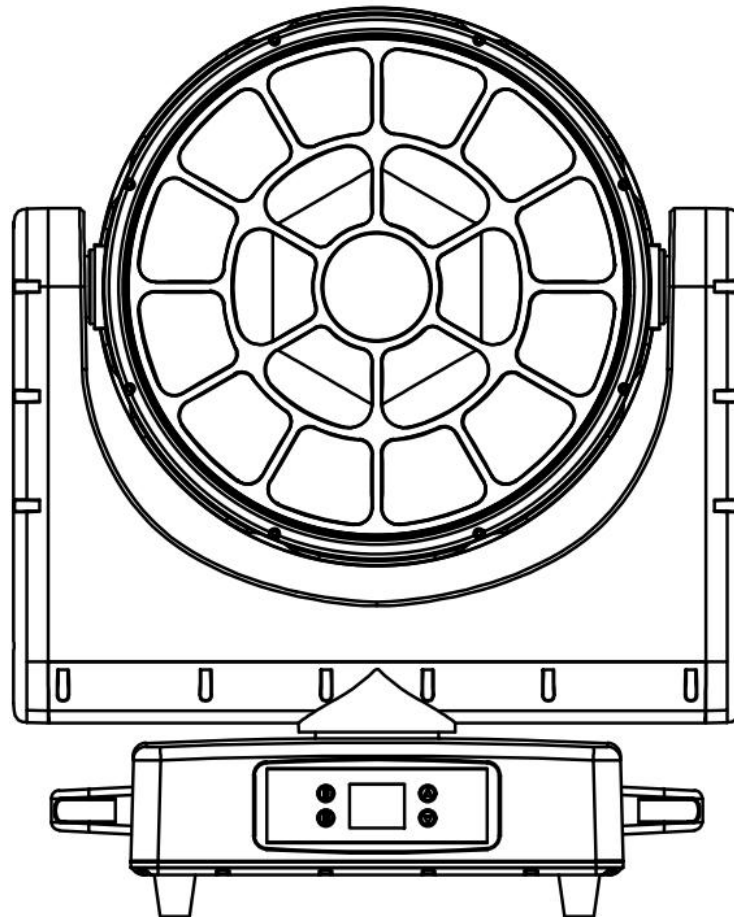


1980 IP



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 !

LIGHT SOURCE & OPTIC

Main light: 19pcs 80 watt LED chips.

Backlight: 3030.2W RGB

Operating temperature: -30°C to 50°C.

EFFECTS

Dimming: 16-bit linear dimming from 0 to 100%.

Characteristics: single bead swing, dyeing and light beam.

Stroboscopic frequency: 1~30Hz

Focus: Electric focus system

CONTROL & PROGRAM

Control modes: DMX512, Auto, Master-Slave, Voice Control, and RDM-enabled.

DMX Channel: 27CH/117CH/98CH/103CH/84CH/41CH

POWER SUPPLY

Input voltage: AC100-240V~ 50/60Hz

Consumed Power: 1950W

Power connectors: Seetronic PowerCon True1 IN/OUT

DMX connectors: Seetronic 3-Pin XLR IN/OUT Optional 5Pin

MOVEMENT

Pan: 540 degrees / Tilt: 270 degrees

P/T position: Auto correction

P/T: 16bit scanning

BODY

Working in any position

Magnesium Aluminum IP65 body

Two side hidden handles for transportation

Menu

MENU	FUNCTION	INFO
Address	001 - 512	Add or subtract one
System Settings	running mode	DMX/Car 1/Car 1/Sound
	channel pattern	27CH/41CH/84CH//103CH/98CH/117CH
	network settings	Set IP address and domain
	Horizontal Inversion	Turn on/off
	Vertical Reversal	Turn on/off
	Hall error correction	Turn on/off
	optocoupler error correction	Turn on/off
	signal holding	Turn on/off
	Screen Protector	Turn on/off

	Flip screen	On/Off/Auto
	Sync updates	Turn on/off
	language	the Chinese language /EN
	light dimming speed	Fast/Standard
	dimming curve	Curve 1/Curve 2/Curve 3/Curve 4
	dimming frequency	1K/4K/6K/10K/15K/25K
	Screen Lock	Turn on/off
	factory data reset	affirm
		cancel
manual mode	Current channel mode channel	Manual control mode
system calibration	Set calibration value	Set calibration value
system reset	effect motor reset	effect motor reset
	scan motor reset	scan motor reset
	reset all motors	reset all motors
system info	Reduction error message	Display reset error message
	DMX data monitoring	Channel value of the control console
	sensor information	Hall information
		X-ray coupling information
		Y-coupler information
	Hardware version	Display hardware version
	software release	Display software version

➤ Screen auto-rotation

The system automatically rotates the screen based on the direction of gravity, eliminating the need for manual rotation. You can also disable the auto-rotation feature.

➤ Manual control

This interface controls the current light.

Press OK to enter edit mode. Use the up and down keys to change channel values. Press OK again to save changes and exit edit. Press Exit to exit edit without saving changes.

➤ system calibration

Set a password here to prevent unauthorized access. Press OK to verify the password.

FUNCTION	INFO
Initial position calibration	After entering the sub-interface, the reset position of the motor can be adjusted, such as the X-axis, Y-axis, focusing and rotation, to compensate the error of hardware installation, and the adjustment range is 0-255,127 indicates no adjustment.
White balance	After entering the sub-interface, the white balance of red, green, blue and white of the lamp and LED1-19 can be adjusted, the adjustment range is 0~255,255 means no adjustment.
Power	After entering the sub-interface, the power of the lamp can be adjusted, the adjustment range is 0-255,255 means no adjustment.
MIC sensitivity	Voice sensitivity calibration.
Focus control	Adjust the focus travel range from 0 to 255, where 255 is the maximum value and 0 indicates no adjustment.
Change password	Change the password to access the system calibration interface.

➤ reset

Press the Up or Down key to switch between reset modes. Press OK to reset directly.

FUNCTION	INFO
effect motor reset	Reset effects panel except XY
scan motor reset	Reset only the XY axis
reset all motors	lamp reset

➤ system info

FUNCTION	INFO
Reduction error message	If the red ERR indicator light turns on, it means the lamp is malfunctioning. You can view the details in the sub-interface.
DMX data monitoring	This opens a sub-interface that displays channel values numerically for viewing.
sensor information	The real-time monitoring of the various photoelectric switches, Hall and other sensors on the lamp.
Hardware version	Lamp hardware information.
Software version	Lamp software version.

CHANNEL

27 CH	27+RGB 84CH	27+RGBW 103CH	Function	DMX Value	INFO
1	1	1	Red	0-255	Red linear dimming from dark to bright
2	2	2	Red fine-tuning	0-255	Red from dark to bright linear fine-tuning
3	3	3	Green	0-255	Linear dimming from dark to bright
4	4	4	Green fine-tuning	0-255	Linearly adjust the green from dark to light
5	5	5	Blue	0-255	Blue linear dimming from dark to light
6	6	6	Blue Fine-Tuning	0-255	Adjust the blue color linearly from dark to light
7	7	7	white	0-255	Linear dimming from dark to bright
8	8	8	White fine-tuning	0-255	Linearly adjust the white from dark to light
9	9	9	colour temperature	0-255	linear color temperature adjustment
10	10	10	dye	0-255	Built-in color gradient
11	11	11	strobe	0-3	lighting-off
				4-103	The synchronized strobe speed gradually increases from slow to fast (1HZ-25HZ)
				104-107	light up
				108-207	The strobe speed is adjusted from slow to fast (1HZ-25HZ)
				208-212	light up
				213-225	low speed random strobe
				226-238	medium speed random strobe
				239-251	high speed random strobe

				252-255	light up
12	12	12	global dimming	0-255	Linear dimming from dark to bright
13	13	13	dimming fine adjustment	0-255	Dimming fine-tuning control
14	14	14	X axle	0-255	0-540 degrees
15	15	15	X-axis fine-tuning	0-255	16-bit adjustable
16	16	16	Y axle	0-255	0-205 degrees
17	17	17	Y-axis fine-tuning	0-255	16-bit adjustable
18	18	18	function	0-255	obligate
19	19	19	reset	0-25	NF
				26-76	Head reset is valid for 5 seconds
				77-127	XY reset is valid for 5 seconds
				128-255	Full reset is valid for 5 seconds
20	20	20	focus	0-255	The angle is linearly adjusted from small to large.
21	21	21	halo dimming	0-255	0-100% Halo Dimming
22	22	22	halo strobismus	0-4	opening the light
				5-255	Synchronous strobe (fast to slow)
23	23	23	Aurora Red	0-255	Aurora Red (dark to light)
24	24	24	Aurora Green	0-255	Halo Green (dark to light)
25	25	25	Aurora Blue	0-255	Aurora Blue (dark to light)
26	26	26	Halo effect	0-2	NF
				3-128	Halo Effect (3 effects per number)
				129-255	Halo effect (3 effects per number)
27	27	27	Halo effect speed	0-127	Forward speed from fast to slow
				128-255	Reverse speed from slow to fast
	28	28	R1 LED dimming	0-255	R1 LED dimming

	29	29	G1 LED dimming	0-255	G1 LED dimming
	30	30	B1 LED dimming	0-255	B1 LED dimming
		31	WLED dimming	0-255	WLED dimming
	...	...	...	...	
	82	100	R19 LED dimming	0-255	R19 LED dimming
	83	101	G19 LED dimming	0-255	G19 LED dimming
	84	102	B19 LED dimming	0-255	B19 LED dimming
		103	W19 LED dimming	0-255	W19 LED dimming

41 CH	41+RGB 98CH	41+RGB 117CH	Function	DMX value	INFO
1	1	1	Red	0-255	Red linear dimming from dark to bright
2	2	2	Red fine-tuning	0-255	Red from dark to bright linear fine-tuning
3	3	3	Green	0-255	Linear dimming from dark to bright
4	4	4	Green fine-tuning	0-255	The green color is linearly adjusted from dark to light
5	5	5	Blue	0-255	Blue linear dimming from dark to light
6	6	6	Blue Fine-Tuning	0-255	Adjust the blue color linearly from dark to light
7	7	7	White	0-255	Linear dimming from dark to bright
8	8	8	White fine-tuning	0-255	Linearly adjust the white from dark to light
9	9	9	colour temperature	0-255	linear color temperature adjustment
10	10	10	dye	0-255	Built-in color gradient
11	11	11	strobe	0-3	lighting-off

				4-103	The synchronized strobe speed gradually increases from slow to fast (1HZ-25HZ)
				104-107	light up
				108-207	The strobe speed is adjusted from slow to fast (1HZ-25HZ)
				208-212	light up
				213-225	low speed random strobe
				226-238	medium speed random strobe
				239-251	high speed random strobe
				252-255	light up
12	12	12	master dimming	0-255	Linear dimming from dark to bright
13	13	13	dimming fine adjustment	0-255	Dimming fine-tuning control
14	14	14	X axle	0-255	0-540 degrees
15	15	15	X-axis fine-tuning	0-255	16-bit adjustable
16	16	16	Y axle	0-255	0-205 degrees
17	17	17	Y-axis fine-tuning	0-255	16-bit adjustable
18	18	18	function	0-255	obligate
19	19	19	reset	0-25	NF
				26-76	Head reset is valid for 5 seconds
				77-127	XY reset is valid for 5 seconds
				128-255	Full reset is valid for 5 seconds
20	20	20	focus	0-255	The angle is linearly adjusted from small to large.
21	21	21	Dynamic Effects Cooperation effect color colour)	0-7	/
				8	Static Effects 1
				9	Static Effects 2
				10	Static Effects 3
				11	/
				12	Static Effect 4
				13	Static Effects 5

				0-63	Static effect
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22	22	22	Dynamic effect speed	64-158	Forward from fast to slow
				159-160	static
				161-255	Reverse from slow to fast
23	23	23	Effect Dilution	0-255	Fade dynamic effects
24	24	24	Effect: Red	0-255	Dynamic effect red
25	25	25	Effect: Green	0-255	Dynamic effect green
26	26	26	Effect Blue	0-255	Dynamic effect blue
27	27	27	Effect: White	0-255	Dynamic effect white
28	28	28	Effect Dimming	0-255	Pattern 0-100% dimming
29	29	29	Background dimming	0-255	Background 0-100% dimming
30	30	30	Effect Transition	0-255	pattern variation control
31	31	31	Offset	0-255	Dynamic effect translation
32	32	32	frontal strobe	0-255	Frontal strobe (same as channel 11)
33	33	33	background strobe	0-255	Background strobe (same as channel 11)
34	34	34	background selection	0-255	background selection
35	35	35	halo dimming	0-255	0-100% Halo Dimming
36	36	36	halo strobismus	0-4	opening the light
				5-255	Synchronous strobe (fast to slow)
37	37	37	Aurora Red	0-255	Aurora Red (dark to light)
38	38	38	Aurora Green	0-255	Halo Green (dark to light)
39	39	39	Aurora Blue	0-255	Aurora Blue (dark to light)
40	40	40	Halo effect	0-7	NF
				8-255	Overall halo effect
41	41	41	Halo effect speed	0-127	Forward speed from fast to slow
				128-255	Reverse speed from slow to fast
	42	42	R1 LED dimming	0-255	R1 LED dimming
	43	43	G1 LED dimming	0-255	G1 LED dimming
	44	44	B1 LED dimming	0-255	B1 LED dimming
		45	WLED dimming	0-255	WLED dimming

	...	...	...	...	
	96	114	R19 LED dimming	0-255	R19 LED dimming
	97	115	G19 LED dimming	0-255	G19 LED dimming
	98	116	B19 LED dimming	0-255	B19 LED dimming
		117	W19 LED dimming	0-255	W19 LED dimming

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!