

Atomic 864

User Manual



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TECHNICAL PARAMETERS

Light source

Voltage: AC100~240V 50/60HZ

Power: 36V/200W

Light source: 864Pcs 5050 RGB LEDs+96Pcs White LEDs

Controls

Control: DMX512、 auto run、 master/slave、 sound active、 with RDM

Channel: CH04、 CH12、 CH32

Connection: DMX512/ Power in+out

Various shapes built-in channel

Effect

Dimmer: 32 bit 0~100% linear dimmer

Feature: 8+8 sections control + wash + strobe +pixel effect]

Strobe frequency: 1~30HZ

Construction

Working environment: -30~50 °C

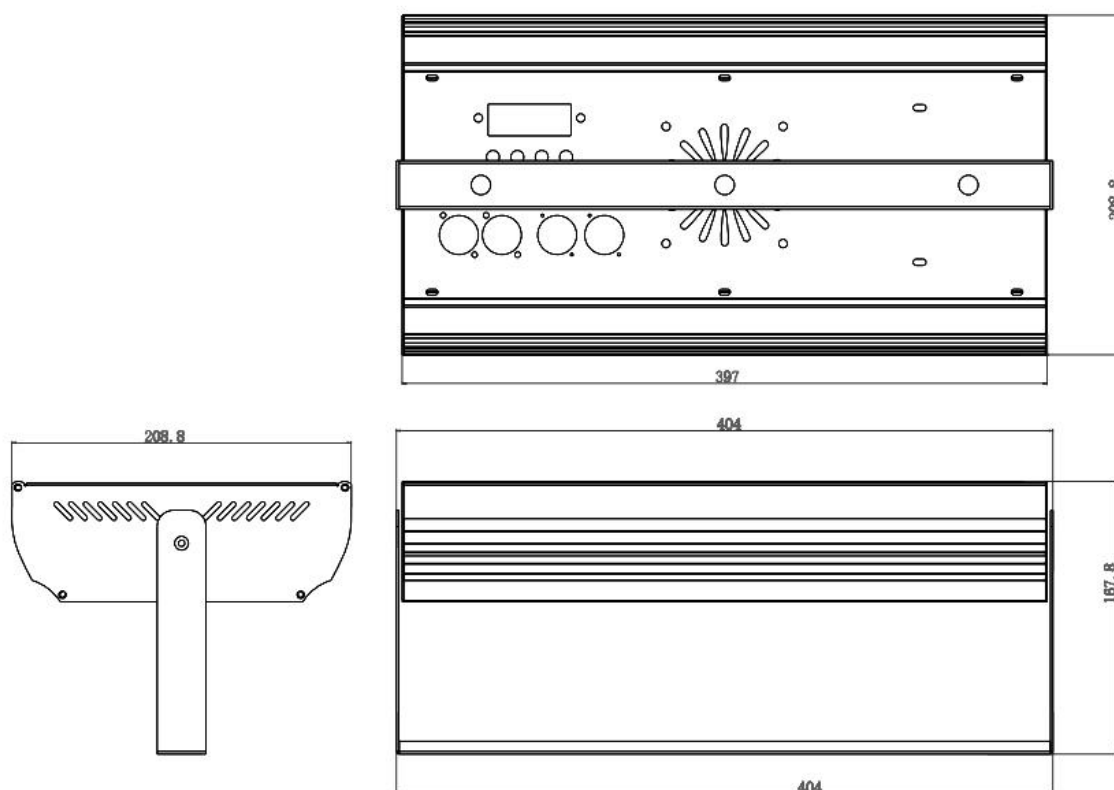
Housing: Black

IP rate: IP20

Weight&Dimension

Weight: 6.5KG

SIZE DRAWING



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 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(5 Pin optional)
3. One safety rope
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., 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!

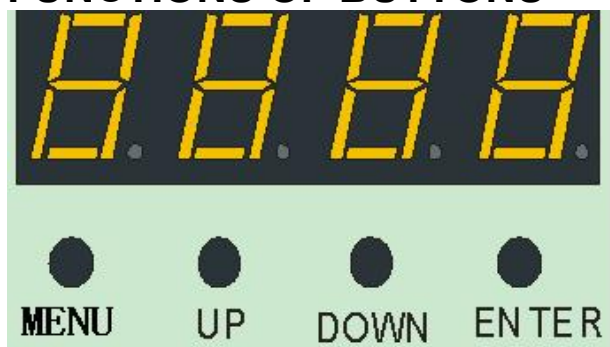
Disconnect from mains before starting maintenance operation!

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.

FUNCTIONS OF BUTTONS



MENU: Select the function

UP: Parameters increase

DOWN: Parameters decrease

ENTER: Confirm and save

MENU FUNCTION

Press the MENU button, click the menu table by pressing UP or DOWN to modify the function parameters and save the current function and parameters by "ENTER".

A001	➡	A512	Set the address code, modify the address code (A001~A 512 up or down), and press the enter key to save.
CH3	➡	CH39	Switch the CH04、CH11、CH32、CH39 by up or down.
M000	➡	M083	There are 84 built-in effects, and modify the built-in effects by up or down
S000	➡	S255	Modify the built-in effect running speed (S000~ S255) by up or down
M000	➡	M040	There are 41 built-in effects for white tube, and modify the built-in effects by up or down
S000	➡	S255	Modify the built-in effect running speed for white tube (S000~ S255) by up or down
Soud	➡	Soud	Sound control mode
R255	➡	R000	Modify the red bead brightness (R000~ R255) by up or down
G255	➡	G000	Modify green bead brightness (G000~ G255) by up or down
B255	➡	B000	Modify the blue bead brightness (B000~ B255) by up or down
W255	➡	W000	Modify the white bead brightness (W 000~W 255)by up or down
T000			Display temperature, such as T045 indicates that the current lamp temperature is 45℃; 10K thermistor is not installed, display T000.

MASTER/S�AVE MODE

Two or more identical lamps are connected with DMX three-core signal line, all lamps are set to A001~A512 any address code, set as the host, other lamps are host, adjust gradient, pulse, jump, sound control, dimming, departure effect, all slave synchronous gradient, pulse, jump, sound control, dimming and self-departure effect.

Special attention: 1. One set of lamps can only set up one host. If there are multiple hosts, all the lamps will flash and out of time.

All lamps must be the host and slave when the DMX512 console is turned off.

FACTORY SETTING

At any address code of A001~A512, press the menu key for 5 seconds to enter the factory settings. Factory setting is mainly the functions of output power, fan setting mode, setting temperature protection point and sending parameters. Press the Menu button for 5 seconds to exit the factory setting-up.

R255	➡	R032	Modify the red LED electric current (R032-R 255 up or down)press "enter" to save
G255	➡	G032	Modify the green LED electric current (G 032-G255 up or down) press "enter" to save
B255	➡	B032	Modify the blue LED electric current (B 032-B255) press "enter" to save
W255	➡	W032	Modify the white LED electric current(W 032-W255 up or down) press "enter" to

			save
FAN0	➡	FAN1	Fan setting: (FAN0) the fan starts working when power on (FAN1) the fan starts working when the temperature goes to protection point. Press "enter" to save
T040	➡	T 070	Modify the temperature parameters up or down (40°C~70°C) press "enter" to save
Send	➡	Send	Send the parameters of factory setting by up or down to all other lights connected by 3-pin signal cables; "Exit" by pressing the menu key for 5 seconds, or cancel by pressing the ENTER key.

DMX CHANNEL LIST

4CH MODE

CH	VALUE	FUNCTION
1	000-255	R
2	000-255	G
3	000-255	B
4	000-255	W

CH11 MODE

CH	VALUE	FUNCTION
1	000-255	Dimmer
2	000-255	Strobe
3	000-255	Direction stick, mode effect running direction
4	000-255	RGB effect
5	000-255	RGB shape built in
6	000-255	RGB speed
7	000-255	W self-propelled
8	000-255	W self-propelled speed, from slow to fast
9	000-255	R
10	000-255	G
11	000-255	B
12	000-255	W

CH32 MODE

CH	VALUE	FUNCTION
1	000-255	1 st section R Dimmer
2	000-255	1 st section G Dimmer
3	000-255	1 st section B Dimmer
4	000-255	2 nd section R Dimmer
5	000-255	2 nd section G Dimmer
6	000-255	2 nd section B Dimmer
...

22	000-255	8 th section R Dimmer
23	000-255	8 th section G Dimmer
24	000-255	8 th section B Dimmer
25	000-255	1 st section W Dimmer
26	000-255	2 nd section W Dimmer
27	000-255	3 rd section W Dimmer
28	000-255	4 th section W Dimmer
29	000-255	5 th section W Dimmer
30	000-255	6 th section W Dimmer
31	000-255	7 th section W Dimmer
32	000-255	8 th section W Dimmer

RGB SHAPE CHART

VALU E	NO.	EFFECT
0-2	0	No function
3-5	1	R
6-8	2	G
9-11	3	B
12-14	4	RG
15-17	5	RB
18-20	6	GB
21-23	7	RGB
24-26	8	NO.1 to NO.7 rainbow
27-29	9	Gradual changing
30-32	10	Pulse changing
33-35	11	1 st section R running
36-38	12	1 st section G running
39-41	13	1 st section B running
42-44	14	1 st section RG running
45-47	15	1 st section RB running
48-50	16	1 st section GB running
51-53	17	1 st section RGB running
54-56	18	No.11 to No.17 rainbow
57-59	19	2 nd section R running
60-62	20	2 nd section G running
63-65	21	2 nd section B running
66-68	22	2 nd section RG running
69-71	23	2 nd section RB running
72-74	24	2 nd section GB running
75-77	25	2 nd section RGB running
78-80	26	NO.19 to No.25 rainbow
81-83	27	1 st section R refresh
84-86	28	1 st section G refresh
87-89	29	1 st section B refresh
90-92	30	1 st section RG refresh
93-95	31	1 st section RB refresh
96-98	32	1 st section GB refresh
99-101	33	1 st section RGB refresh
102-104	34	NO.27 to No.33 rainbow
105-107	35	R @each end refreshing back and forth
108-110	36	G @each end refreshing back and forth
111-113	37	B @each end refreshing back and forth
114-116	38	RG @each end refreshing back and forth

117-119	39	RB @each end refreshing back and forth
120-122	40	GB @each end refreshing back and forth
123-125	41	RGB @each end refreshing back and forth
126-128	42	No.35 to No.41 rainbow
129-131	43	Two R running back and forth
132-134	44	Two G running back and forth
135-137	45	Two B running back and forth
138-140	46	Two RG running back and forth
141-143	47	Two RB running back and forth
144-146	48	Two GB running back and forth
147-149	49	Two RGB running back and forth
150-152	50	No.43 to No.49 rainbow
153-155	51	R+G running back
156-158	52	G+B running back
159-161	53	B+R running back
162-164	54	RG+RB running back
165-167	55	RG+GB running back
168-170	56	GB+RGB running back
171-173	57	RGB+R running back
174-176	58	No.51 to No.57 rainbow
177-179	59	Two R square running
180-182	60	Two G square running
183-185	61	Two B square running
186-188	62	Two RG square running
189-191	63	Two RB square running
192-194	64	Two GB square running
195-197	65	Two RGB square running
198-200	66	No.59 to No.65 rainbow
201-203	67	R running in shadow
204-206	68	G running in shadow
207-209	69	B running in shadow
210-212	70	RG running in shadow
213-215	71	RB running in shadow
216-218	72	GB running in shadow
219-221	73	RGB running in shadow
222-224	74	No.105 to No.111 rainbow
225-227	75	R heaping up
228-230	76	G heaping up
231-233	77	B heaping up
234-236	78	RG heaping up
237-239	79	RB heaping up
240-242	80	GB heaping up
243-245	81	RGB heaping up
246-248	82	No.113 to No.119 rainbow
249-251	87	7-Color heaping up
252-254	88	7-Color changing
255	89	No.11 to NO.81, can change RGB color

WHITE SHAPE CHART

VALUE	NO.	FUNCTION
0-5	1	No function
6-11	2	1 st section White
12-17	3	2 nd section White
18-23	4	3 rd section White
24-29	5	4 th section White

30-35	6	5 th section White
36-41	7	6 th section White
42-47	8	7 th section White
48-53	9	8 th section White
54-59	19	1 st section white from left to right running
60-65	20	1 st section white from right to left running
66-71	23	2 nd section white from left to right running
72-77	24	2 nd section white from right to left running
78-83	27	3 rd section white from left to right running
84-89	28	3 rd section white from right to left running
90-95	30	1 st section white running back and forth
96-101	33	2 nd section white running back and forth
102-107	34	3 rd section white running back and forth
108-113	37	1 st section white crash from left to right
114-119	39	1 st section white crash from right to left
120-125	40	One white from left to right falling
126-131	43	One white from right to left falling
132-137	45	One white running back and forth
138-143	47	One white from left to right refresh
144-149	49	One white from right to left refresh
150-155	51	Each section of white refreshing in the middle.
156-161	53	Middle white refreshing at both ends
162-167	55	Each section of white running back and forth
168-173	57	A section of white light accumulates from left to right
174-179	59	A section of white light accumulates from right to left
180-185	61	White waves run from left to right
186-191	63	White waves run from right to left
192-197	65	Each second wave of white merges into the middle
198-203	67	Separate each white wave from the middle to two ends
204-209	69	Four segments interval between a white running back and forth
210-215	71	Four segments are connected with white light running back and forth
216-221	73	One white light squir from left to right
222-227	75	One white light squir from right to left
228-233	77	A gradual white light moves from left to right and finally shines back
234-239	79	Two sections of white pendulum
240-245	81	After a section of white accumulates, another paragraph disappears
246-251	87	The white collided and grows at both ends
252-255	88	Synthesized modeling

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.