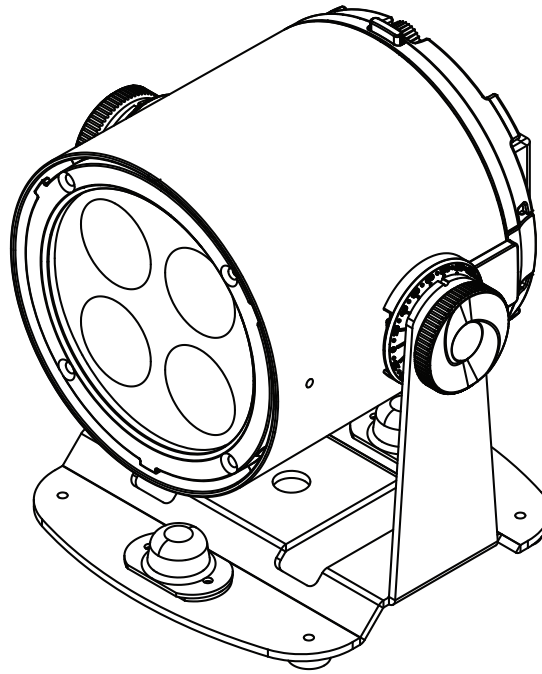
BATCOOL420IP

4*20W RGBL 4IN1 LEDs



USER MANUAL

SAFETY INTRODUCTION

Before you operate this unit read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating. This product is for professional use only. It is not for household use.



•Do not operate the unit in areas of high temperature conditions. It will cause abnormal function or damage the product.
•Always use a suitable safety wire when mounting the light overhead.
•Connect the safety wire only to the intended safety mount.
• Always follow local safety requirements.



•Only qualified personnel may repair this product.
•Do not open the product housing.
•Do not apply power if the light is damaged.



•Do not directly look into the light.
•It can cause harm to your eyes.
•Do not look at the LEDs with a magnifying glass or any other optical instrument that may concentrate the light output.
•Please don't look at the light directly when the light's radiation temperature reach 40℃



•The exterior surfaces of the light can become hot, up to 55°C during normal operation.
•Ensure that accidental physical contact with the device is impossible.
• Install only in ventilated locations.
•Do not cover the light.



•Always charge with the flight case open.
• It is recommended to charge at a temperature between 15°C and 35°C



•Do not look directly at the light source.



•Don't throw the unit into the garbage at the end of its lifetime.
• Make sure to dispose is according to your local ordinances and/or regulations, to avoid polluting the environment!
•The packaging is recyclable and can be disposed.



GENERAL PRODUCT INFORMATION

1. Standard Configuration

- 1x BATCOOL420IP
- 1x Adapter(18V/5A)
- 1x Power cable

2.Control Functions

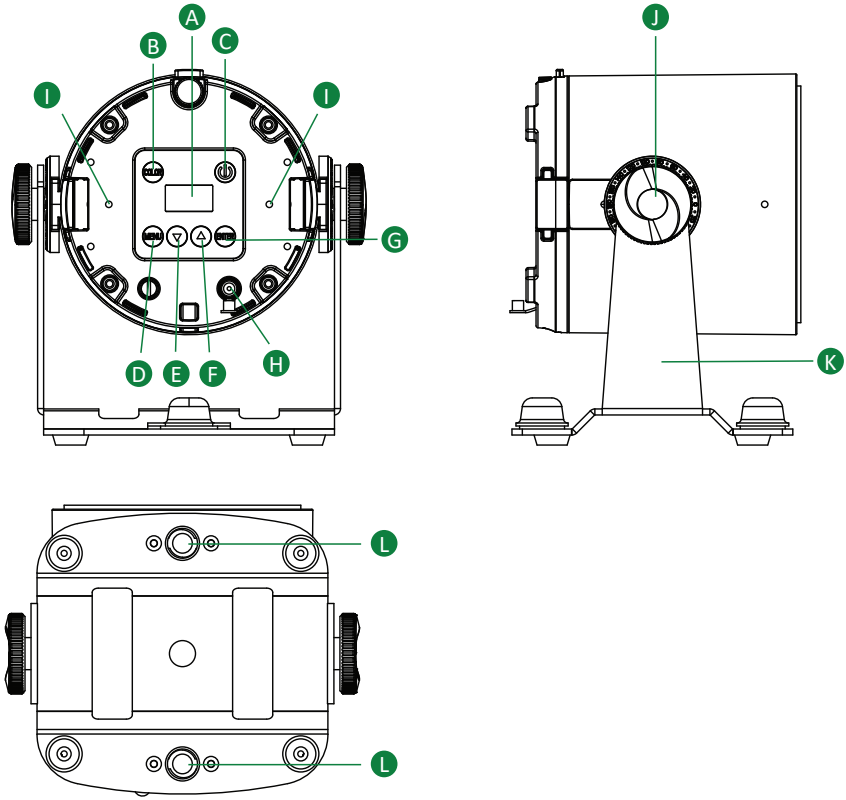
- 2/HSV/5/8/11/15CH
- Master&Slave mode
- CRMX Wireless DMX(optional)
- VISION APP(optional)

3.Features

- Light Source: Main Led Panel:4*20W RGBW
- Native beam angle(s):20°
- Initial field of view (spot angle):25°
- Color Temperature range(W)6000K
- Total power:51W
- Battery working time @ full light:4H
- Battery working time @ auto:8H
- Battery charging time:4.5H
- DC Input 18V/5A
- Luminous flux:3150 lm
- Illuminance Lux @ 2m:8574 lx
- Illuminance Lux @ 5m:1372 lx
- Illuminance Lux @ 8m:536 lx
- Illuminance Lux @ 10m:343 lx
- Run Mode: DMX 512 /Master Slave/Auto Run
- Wireless DMX from Sweden
- 10 internal programs and 10 customerize programs
- 4 different dimming curve
- Strobe:0 - 20Hz adjustable
- Tilt:0-360°
- IP65
- LED PWM Frenquency:1K-18KHz
- N.W: 2.87 KG
- Dimensions: 177 x 160 x 187mm

INSTALLATION&SETUP

1. Connections



A: LCD Screen
B: Color
C: Power switch
D: Menu
E: Down
F: Up
G: Enter
H: DC Input
I: Mounting hole of the hanging plate
J: Knob 0-360°
K: Removable stand
L: Mounting hole of fast lock

OPERATION

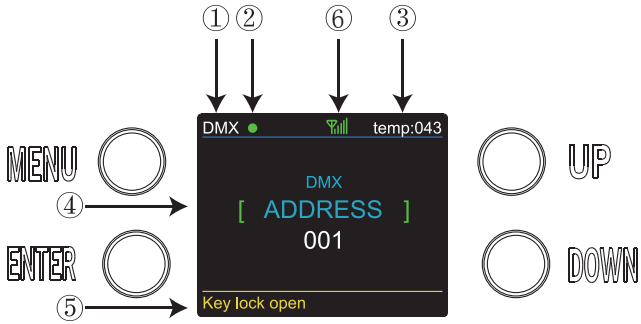
1. Control Display

MENU TFT displayer with four buttons

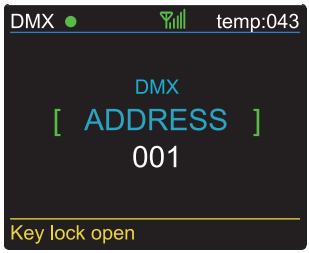
Press arrows to scroll up and down inside the menu and change values, such as DMX address

ENTER Press ENTER to access theselection menu for system settings or confirm changes

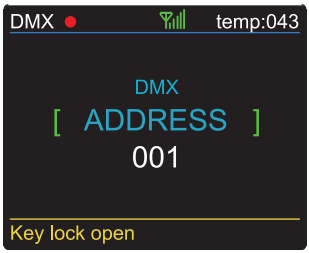
2.Displayer Introduction



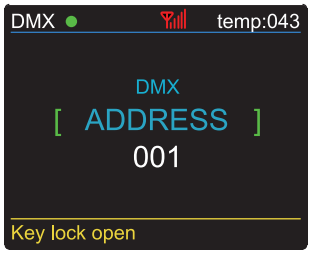
1. When you enter DMX Mode,it will be showed DMX,when you enter SLAVE Mode,it will be showed SLAVE.
2. This shows the condition of signal transmission. Green is connected.Red is disconnected.
3. This shows the temperature of the lights.
4. This shows the menus you can select.
5. This shows the condition of key lock. “Key lock open” means it is open and “Key lock off” means it is close.
6. This shows the condition of wireless signal. Green is connected.Red is disconnected.



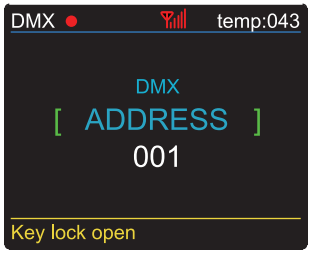
While DMX and Wireless signal are green,it means DMX Mode and Wireless are connected.



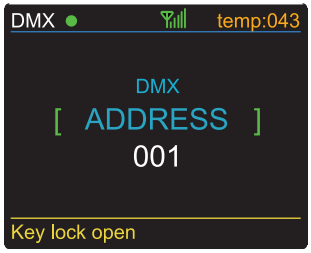
While DMX shows red but Wireless signal shows green,it means DMX Mode is disconnected and Wireless is connected.



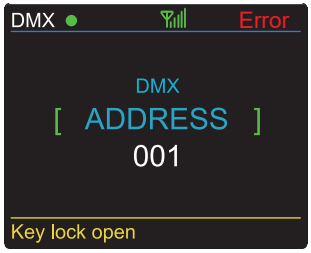
While DMX shows green but Wireless signal shows red,it means DMX Mode is connected and Wireless is disconnected.



While DMX and Wireless are show red,it means DMX Mode and Wireless are disconnected.

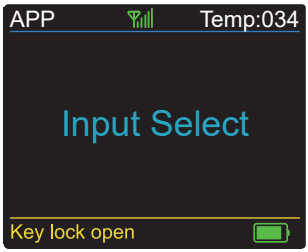


While the letters and number shows change from white to yellow,it means the temperature beyond max temperature of default settings.

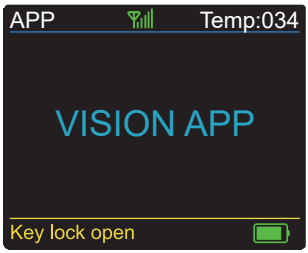


While the letters and number shows Error,it means have some problems of temperature.

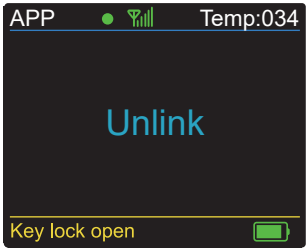
3.APP Control operating method



When the lamp is turned on, press the up or down button, find the Input Select option, and click enter



Click Enter to enter the VISION APP interface, and then click Enter

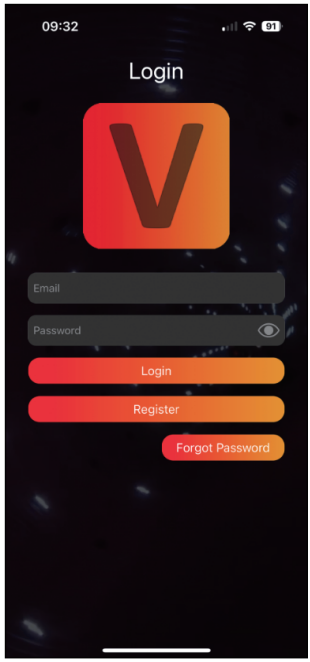


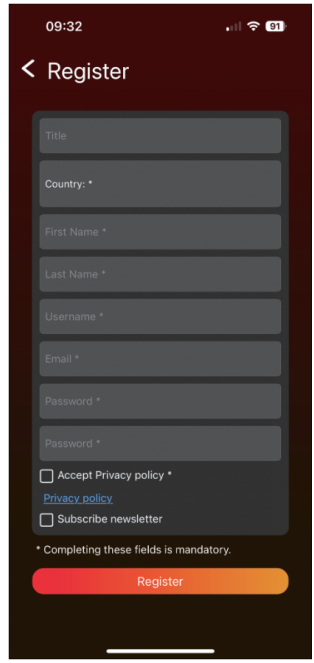
Click Enter to enter the Unlink interface, and then click Enter

4.App Download

Turn on the scanning function of the phone and scan the corresponding QR code to download the Vision control APP for use.

App Store	
Google Play	
Microsoft	

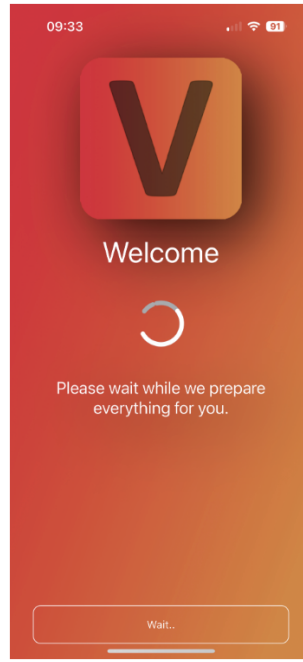




1. Log into the Google play store on your phone, search for Vision Control, and click Download to install.

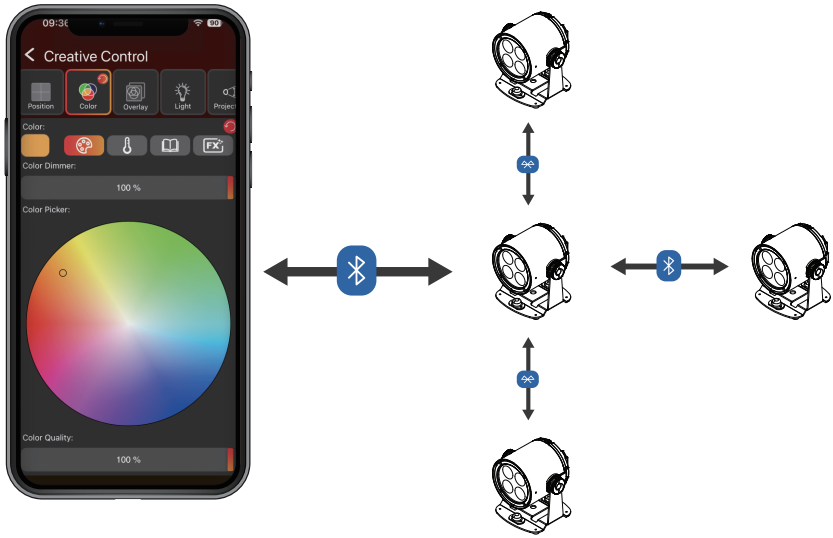
2.Click the Vision APP to enter the login screen.

3.Click the Register button to enter the registration screen
1) Fill in all the contents on the registration page and click the registration button to submit information.
2) Then check your email for confirmation.
3) Click on the confirmation link provided in the email. After clicking the confirmation link, a success message will be displayed on the website. If you click the link a second time, an error message may appear; you can safely ignore it, as the confirmation was successful the first time.
4) Return to the Vision App and use your registered email and password to log in.
Note:For security reasons, it is recommended to keep your login credentials confidential.



The application is being prepared and the process may take some time.If there is no Internet connection at this stage, the application will not launch.Because it requires library information, it is not available without the Internet.Click “Next” to proceed.
1) Grant permission for Bluetooth by clicking “Request”.
2) A popup will open; click “Ok”.
3) Finally, click “Start”.

5.Mesh Networking



EASY INTERACTION WITH YOUR FIXTURE:
NFC support included

EFFORLESS FIXTURE SETUP PROCESS:
No knowledge of DMX/RDM required

LARGE EFFECT TEMPLATE LIBRARY:
Smooth background-Fast party effects

CONNECT TO YOUR NETWORK:
No seperate gateway required

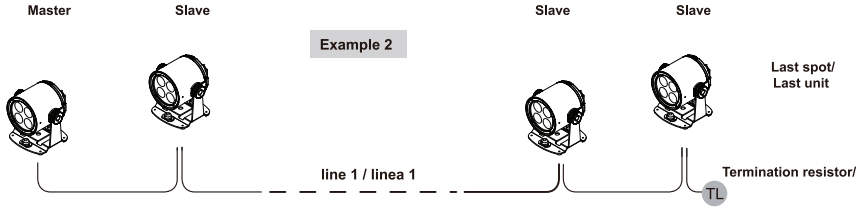
FIXTURE TO FIXTURES COMMUNICATION:
Creating a powerful and robust network without range limitations

SYNCHRONIZED & FIXTURE TO FIXTURE EFFECTS:
Seamless Transition

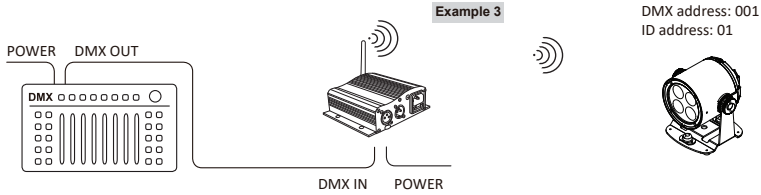
REAL TIME CONTROL:
Control your fixtures without delay

ACCESSIBILITY FROM ANYWHERE:
Cloud synchronization for app & Fixture data

6.Master / Slave connection



7.Wireless connection



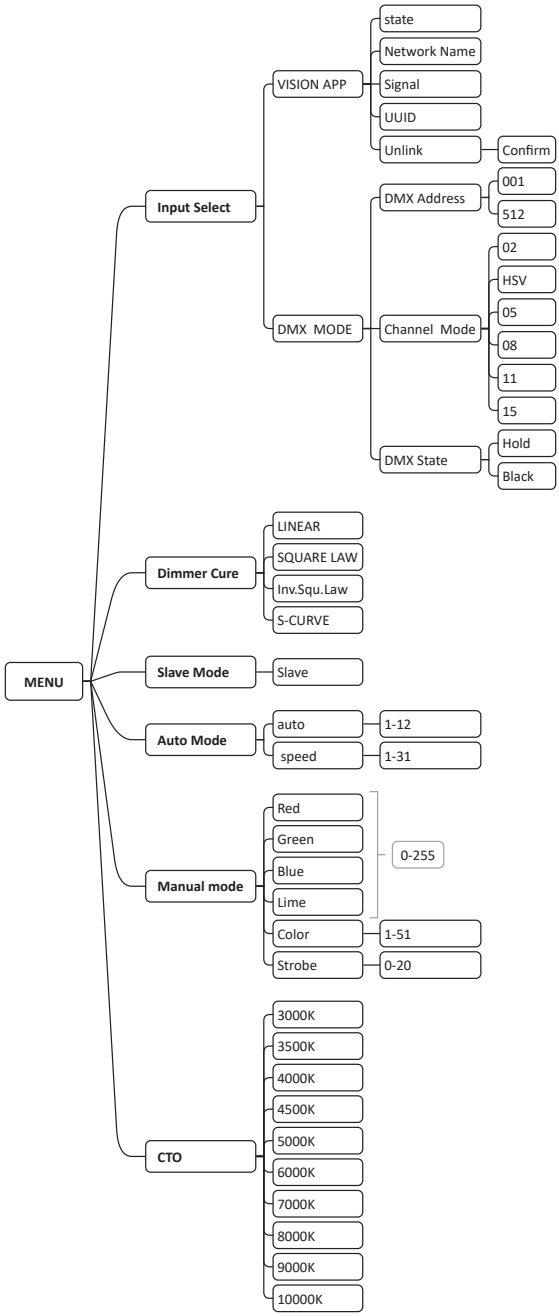
Press “ENTER” button and then “UP” or “DOWN” button until “SET UP” is showed.
Press “ENTER” button and then “UP” or “DOWN” button until “Wirless rel” is displayed, press ENTER button. Then press DMX Mode is ok.
Then, until Green wireless signal is displayed. Then Wireless DMX connected success.
About the condition of wireless signal, Green represents the successful setting, while red represents the signal is unsuccessful.

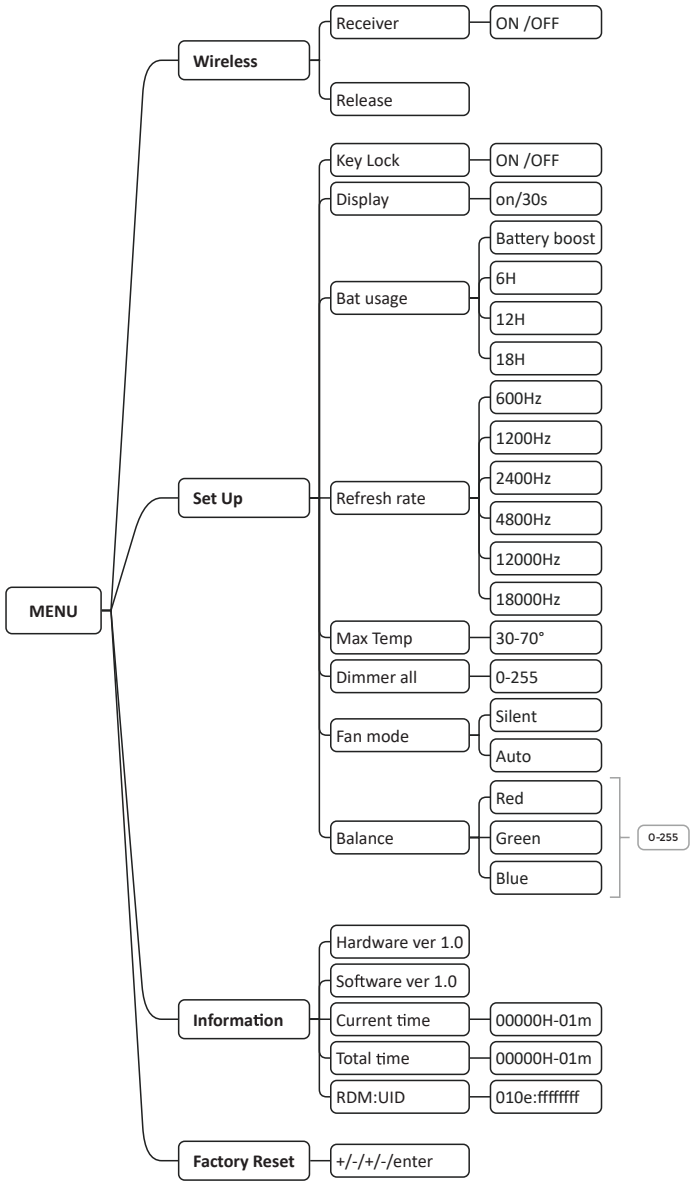
Release wireless DMX signal

Press “ENTER” button and then “UP” or “DOWN” button until “Wirless rel” is showed.
Press “ENTER” button and then “UP” or “DOWN” button until “press +/-” is displayed, press “UP” or “DOWN” button, long press “UP” or “DOWN” button about 5-6 seconds. Until “Initialization” to “Release finish” is displayed. It means release signal successfully.

Please noted:The wireless controller hangs on will be in a good position,the antenna of the products should be face to the controller can be used within 200M.

PROGRAMME MENU




MENU
Wireless
Receiver
ON /OFF
Release
Set Up
Key Lock
ON /OFF
Display
on/30s
Bat usage
Battery boost
6H
12H
18H
Refresh rate
600Hz
1200Hz
2400Hz
4800Hz
12000Hz
18000Hz
Max Temp
30-70°
Dimmer all
0-255
Fan mode
Silent
Auto
Balance
Red
Green
Blue
0-255
Information
Hardware ver 1.0
Software ver 1.0
Current time
00000H-01m
Total time
00000H-01m
RDM:UID
010e:ffffffff
Factory Reset
+/-/+/-/enter

Input Select-In this menu,there are DMX Mode and APP control Mode for you to choose.
1.DMX Mode-In this menu,and you can see three items as below.
1)"Channel [xx]" will be showed, "X" represents the showed DMX channel mode. You can press the UP or DOWN button to select your desired Channel mode.
2)"xxx" will be showed, "x" represents the showed address. You can press the UP or DoWN button to select your desired address.
3)DMX STATE-In this menu,you can choose the DMX signal you desired. Press "ENTER" and you can choose "BLACKOUT" or "DMX HOLD","BLACKOUT" means cut off the DMX signal and "DMX HOLD" means connect DMX signal.
2.Vision APP-In this menu, you can use APP control function via a Bluetooth connection to your phone.
1)Press "ENTER" button and then UP or DOWN button until "Vision APP " is showed.
2)Press "ENTER" button, and "unlink" will be showed.Then will showed confirm after click enter and displayed. click enter again.
3) Press "up or down" button, and the APP connection state,network name, signal and UUID will be displayed.

Dim Curve-In this menu,you can adjust the dimmer curve of the light.
1.Press "ENTER" button and then UP or DOWN button until "Dim Curve" is showed.
2.Press "ENTER" button,and "Linear" “SQUARE LAW” “Inv.Squ.Law” “S-CURVE” will be showed. Then press ENTER to select your desired Dim Curve.

SLAVE MODE-In this menu, you can select one light as the MASTER light and other lights in SLAVE Mode will run following the MASTER light.
1. Press “ENTER” and then press “UP” or “DOWN” to “SLAVE Mode”.
2.Press “ENTER” and “SLAVE” will be showed, then press “ENTER” to select.

AUTO MODE-In this menu, you can select your desire AUTO Mode and adjust the running speed.
1. Press “ENTER” and then press “UP” or “DOWN” to “AUTO MODE”.
2. Press “ENTER” then “SPEED” or “AUTO MODE” is showed.Then press “ENTER” and you can see 2 items as below:
1) SPEED - It provides “01-31” for you choose.
2) AUTO MODE - It provides “AUTO 1- AUTO 12” for you choose.

Manual MODE-In this menu,you can adjust dimmer, static color, strobe you desired.
1. Press “ENTER” and then press “UP” or “DOWN” to “MANUAL MODE”.
2. Press “ENTER” and there has 6 options then press “UP” or “DOWN” to select the value you desired as below:
1)Red-You can adjust the red brightness in this menu.
2)Green-You can adjust the green brightness in this menu.
3)Blue-You can adjust the blue brightness in this menu.
4)Lime-You can adjust the white brightness in this menu.
5)COLOR-You can select 51 different kinds of color in this menu.
6)Strobe-You can adjust the strobe mode in this menu.

CTO-In this menu,you can adjust the color temperature of the light.
1.Press "ENTER" button and then UP or DOWN button until "CTO" is showed.
2.Press "ENTER" button and select the color temperature you want.

Wireless-In this menu,you can receive or clear wireless signals.
1.Press “ENTER” button and then UP or DOWN button until “Wireless” is showed.
2.Press “ENTER" button,and "Receiver" or "Release" will be showed.Then press ENTER,and you can see

two items as below:
1)Transmitter- In this item,you can select "ON" or "OFF".If you select ON,you can use the wireless transmit function or select “OFF” to turn off.
2)Receiver- In this item,you can select "ON" or "OFF".If you select ON,you can use the wireless reception function.And if you select OFF,wireless reception will be turned off.
3)Release-In this item, you can clear wireless signals."SUCCEESS" will be displayed when the wireless signal is successfully cleared.

SET UP-In this menu, you can adjust the value of the function.
1. Press “ENTER” and then press “UP” or “DOWN” to “SET UP”.
2. Press “ENTER” and there has 10 options then press “ENTER” to select the options and press “UP” or “DOWN” to select the value you desired as below:
1)Key Lock-You can select whether the password is on or off in this menu and the password is [UP]+[DOWN]+[UP]+[DOWN].If you select "on" ,then you have to input the password before pressing the buttons.Otherwise,the light won't respond to your order.
2)Display-in this item,you can select "10s"or "ON".If you select ON,the display will be on all the time.And if you select 10s,the screen will turn off after 30 seconds.
3)Bat Usage-You can select the battery usage mode.Battery boost is the most power-hungry mode and 18H is the most power-saving mode and in addition to that, there are 6H,12H,Battery boost to choose from.
4)Refresh Rate-You can select the refresh rate from 600Hz to 18000 Hz.
5)Max temp- You can set the your desired Max working temperature about the light from 30°to 70° in this menu.When the working temperature of the light exceeds the Max temperature.the color of letter "Temp xx” showed in the menu will change from white to yellow.Meanwhile,the light will adjust the working temperature automatically.
6)Dimmer All-You can adjust the brightness of each color from 0 to 255 in this menu.
7)Fan mode-You can adjust the fan mode in this menu.
8)Balance-You can adjust the value of "Red",“Green" and "Blue" from 0 to 255.

INFORMATION-In this menu, you can learn about the information of RDM, software, hardware , current time and the total time of the light.
1. Press “ENTER” and then press “UP” or “DOWN” to “INFORMATION”.
2. Press “ENTER” ,you can see 5 items as below:
1) Hardware - It shows the Hardware information.
2)Software - It shows the software information.
3) Current time - It shows the working time information.
4) RDM UID - It shows RDM information.
5) Total times - It shows the total working hours of the light.

Factory Reset-In this menu,you can reset all the value of the system.

DMX CONTROL MODE

2 CHANNELS		
Channel	**Value**	**Function**
1	0-255	Color 1-color 51
2	0-255	White color marco: 3000K-10000K

HSV CHANNELS		
Channel	**Value**	**Function**
1	0-255	Hue
2	0-255	Saturation
3	0-255	Value (brightness)

5 CHANNELS		
Channel	**Value**	**Function**
1	000 - 255	Red
2	000 - 255	Green
3	000 - 255	Blue
4	000 - 255	Lime
5	000 - 255	Strobe (slow -fast)

8 CHANNELS		
Channel	**Value**	**Function**
1	**000 - 255**	**Master dimmer**
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	Lime
6	000 - 255	Color 1-color 51
7	000 - 255	White color marco: 3000K-10000K
8	000 - 255	Strobe (slow -fast)

11 CHANNELS		
Channel	**Value**	**Function**
1	**000 - 255**	**Master dimmer**
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	Lime
6	000 - 255	Color 1-color 51
7	000- 255	White color marco: 3000K-10000K
8	000 - 255	Strobe (slow -fast)
9	000 - 255	Auto 1-12
10	000 - 255	Auto speed
11	000 - 009	No function
	010 - 029	Linear dimmer
	030- 069	Dimmer 1 (fast)
	070 - 129	Dimmer 2
	130 - 189	Dimmer 3
	190 - 255	Dimmer 4(slow)

15 CHANNELS		
Channel	**Value**	**Function**
1	**000 - 255**	**Master dimmer**
2	000 - 255	Red
3	000 - 255	Red fine
4	000 - 255	Green
5	000 - 255	Green fine
6	000 - 255	Blue
7	000 - 255	Blue fine
8	000 - 255	Lime
9	1 - 255	Lime fine
10	000 - 255	Color 1-color 51
11	000- 255	White color marco: 3000K-10000K
12	000 - 255	Strobe (slow -fast)
13	000 - 255	Auto 1-12
14	000 - 255	Auto speed
15	000 - 009	No function
	010 - 029	Linear dimmer
	030- 069	Dimmer 1 (fast)
	070 - 129	Dimmer 2
	130 - 189	Dimmer 3
	190 - 255	Dimmer 4(slow)

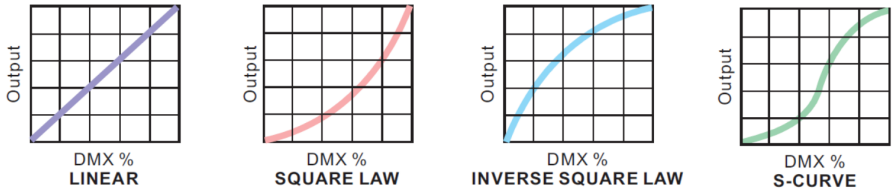
DMX CONTROL SHEET

Color					
12	15	Color 1	116	119	Color 28
16	19	Color 2	120	123	Color 29
20	23	Color 4	128	131	Color 31
24	27	Color 5	132	135	Color 32
28	31	Color 6	136	139	Color 33
32	35	Color 7	140	143	Color 34
36	39	Color 8	144	147	Color 35
40	43	Color 9	148	151	Color 36
44	47	Color 10	152	155	Color 37
48	51	Color 11	156	159	Color 38
52	55	Color 12	160	163	Color 39
56	59	Color 13	164	167	Color 40
60	63	Color 14	168	171	Color 41
64	67	Color 15	172	175	Color 42
68	71	Color 16	176	179	Color 43
72	75	Color 17	180	183	Color 44
80	83	Color 19	188	191	Color 46
84	87	Color 20	192	195	Color 47
88	91	Color 21	196	199	Color 48
92	95	Color 22	200	203	Color 49
96	99	Color 23	204	207	Color 50
100	103	Color 24	208	211	Color 51
104	107	Color 25	212	215	Color 52
108	111	Color 26	216	255	Color 51
112	115	Color 27			

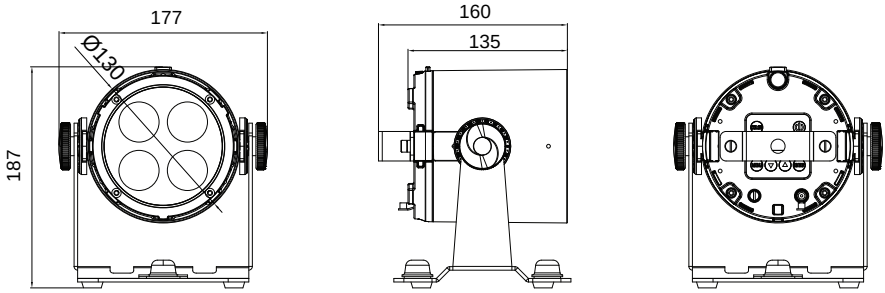
CTO		
8	31	3000K
32	55	3500K
80	103	4500K
104	127	5000K
128	151	6000K
152	175	7000K
176	199	8000K
200	223	9000K
224	255	10000K

Auto		
21	39	Auto 1
40	60	Auto 2
61	80	Auto 4
81	100	Auto 5
101	120	Auto 6
121	140	Auto 7
141	160	Auto 8
161	180	Auto 9
181	200	Auto 10
201	220	Auto 11
221	255	Auto 12

DIMMER CURVE



MECHANICAL SPECIFICATION

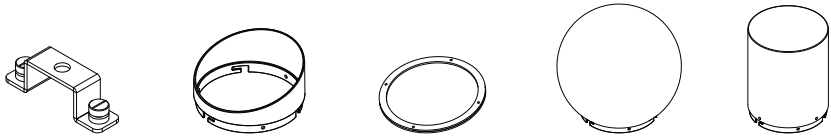


ACCESSORY



Power cable | Fast lock | Adapter

OPTIONAL ACCESSORIES



Hanging plate | Half-Antiglare barndoor | Frost filter | Bat Ball | Bat Tube 15/50cm

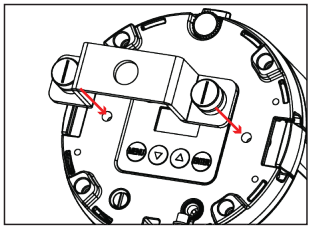


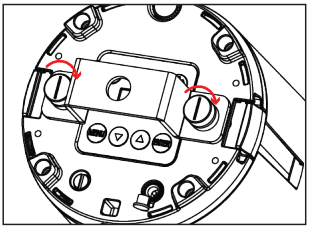
Bat cover

INSTALLATION

1.Customize your setup with various accessories to achieve diverse lighting effects and installation configurations. Options include:

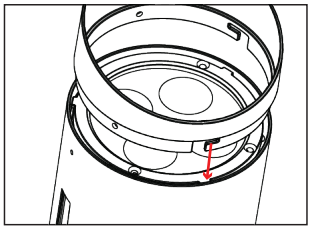
● *Hanging plate*

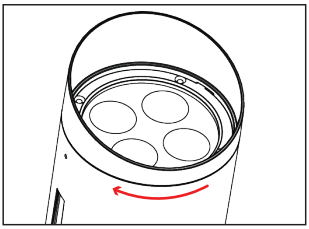




Fixed by pre-drilled holes in the back cover.

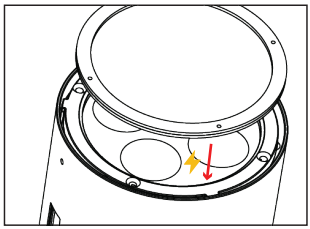
● *Half-Antiglare barndoor*

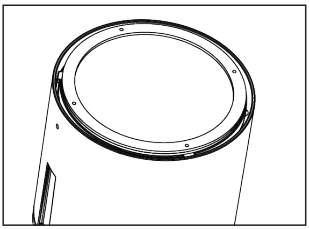




Align the three slots of the Half-Antiglare barndoor with the corresponding teeth in the front cover. Insert and secure by rotating clockwise 5°.

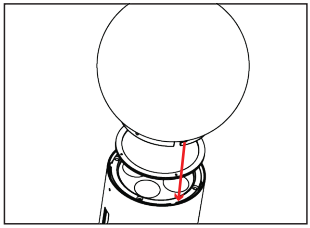
● *Magnetic Frost filter*

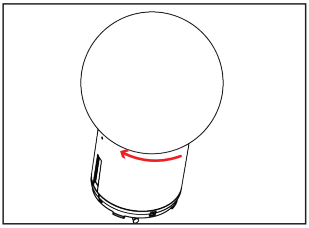




The light head has built-in magnets for attachment. Placing it on the light head to complete adsorption installation.

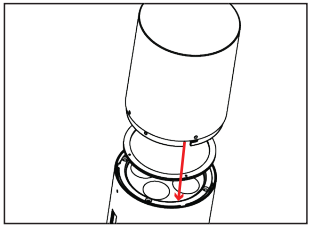
● *Bat Ball - You can optionally install a frost filter before attaching the bat ball for more uniform lighting.*

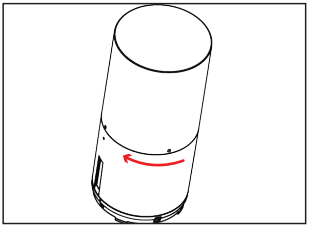




Align the three slots of the bat ball with the corresponding teeth inside the front cover.
Insert and rotate clockwise by 5° to lock in place.

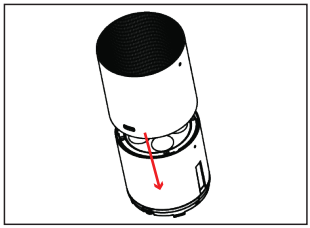
● *Bat Tube 15/50cm - You can optionally install a frost filter before attaching the bat tube for more uniform lighting.*

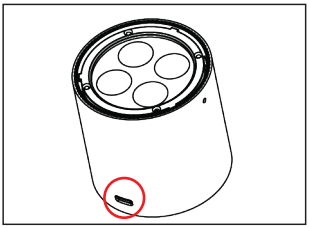




Align the three slots of the Bat Tube with the corresponding teeth in the front cover and rotate clockwise by 5° to lock in place.

● *Bat cover*





Align the notch on the bat slivery cover bottom with the button on the light body.
Slide into place, then press the button until it locks into the notch.

RDM

RDM compliance:ANSI/ESTA E.120

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
LAMP_HOURS			√
RESET_DEVICE		√	
CURVE		√	√
DMX STATE		√	√
DIMMER SPEED		√	√