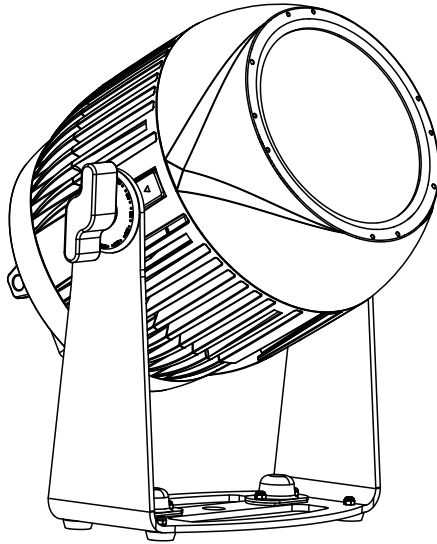


# *User Manual*



# **LEDING**

## **BOLT C**



---

***Please read carefully before use***

*Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*

## 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 °C



- 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.



—2.0m ta 45 °C

# GENERAL PRODUCT INFORMATION

## 1. Standard Configuration

- 1x BOLT C
- 1x True one power cable

In addition, we offer a range of professional accessories (optional). Please see under menu or at our website [www.leding.pt](http://www.leding.pt)

## 2. Control Functions

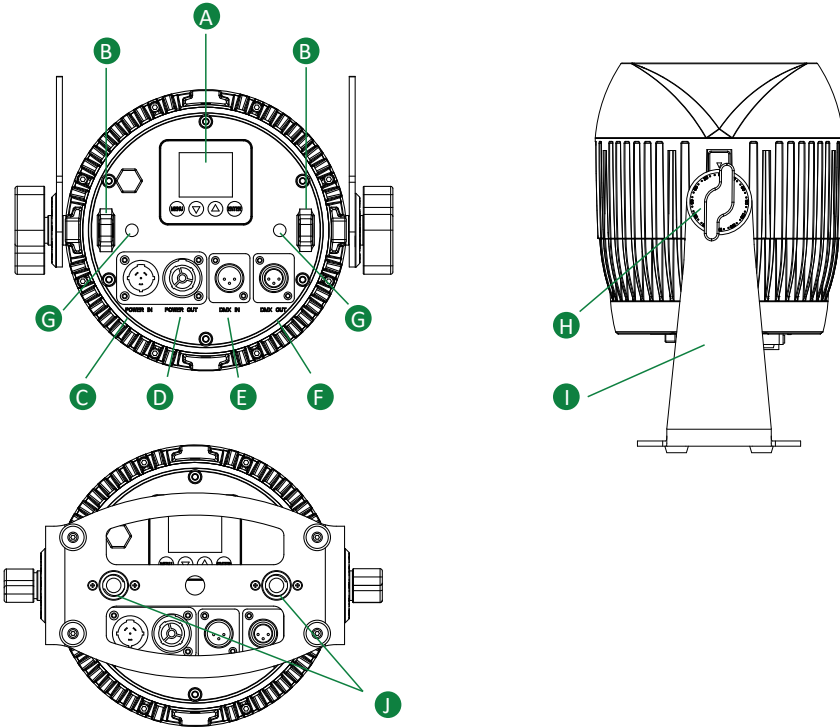
- Halogen / HalogenFull / HSV / 05 / RGBLA / 15 / 15b
- Master&Slave mode
- CRMX Wireless DMX(optional)
- VISION APP(optional)

## 3. Features

- Light Source: 1\*300W+RGBLA
- Native beam angle(s):110°
- Initial field of view (spot angle):85°
- Power consumption: 295W
- Voltage: 100~240V/ 50~60Hz
- Light output all LEDs on: 20500 LM
- Illuminance Lux @ 2m:2871 lx
- Illuminance Lux @ 5m:495 lx
- Illuminance Lux @ 8m:179 lx
- Illuminance Lux @ 10m:114 lx
- Run Mode: DMX 512 /Master Slave/Auto Run
- Maximum 66 ID setting for easy separately control
- Wireless DMX from Sweden
- 10 internal programs and 10 customerize programs
- 4 different dimming curve
- Smart temperature control
- Working time recordL
- Material: Aluminum body
- Painting: an-ti salt & an-ti UV
- TFT displayer with four buttons
- LCD Touch Screen
- IP65
- Temperature: -40°C~45°C
- N.W: 435 KG
- Dimensions: 293.5x 255 x 190mm

# INSTALLATION&SETUP

## 1. Connections



A: LCD Touch Screen

B: Safety rope hole

C: Power In

D: Power Out

E: DMX In

F: DMX Out

G: Mounting points for fast lock metal plate

H: Knob

I: Handle-removable


J: Mounting point for fast lock

# OPERATION

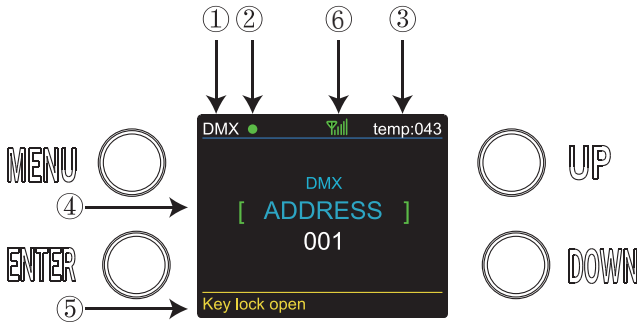
## 1. Control Display

 LCD Touch Screen

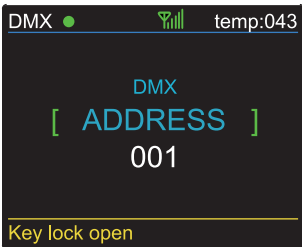
  Press arrows to scroll up and down inside the menu and change values, such as DMX address

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

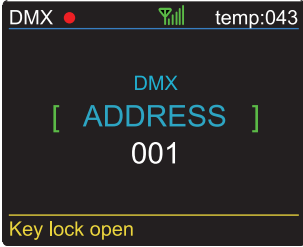
## 2. Displayer Introduction



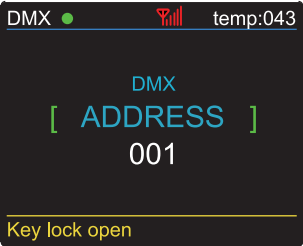
1. When you enter DMX Mode, it will be showed DMX, when you enter SLAVE Mode, it will be showed SLAVE.
2. This shows the condition of signal transmission. Green is connected. Red is disconnected.
3. This shows the temperature of the lights.
4. This shows the menus you can select.
5. This shows the condition 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.



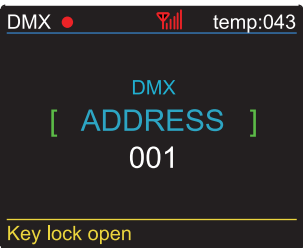
While DMX and Wireless signal are green, it means DMX Mode and Wireless are connected.



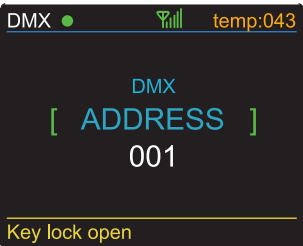
While DMX shows red but Wireless signal shows green, it means DMX Mode is disconnected and Wireless is connected.



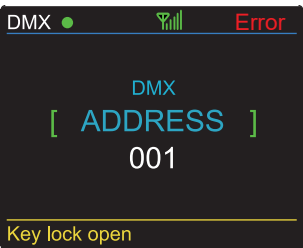
While DMX shows green but Wireless signal shows red, it means DMX Mode is connected and Wireless is disconnected.



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

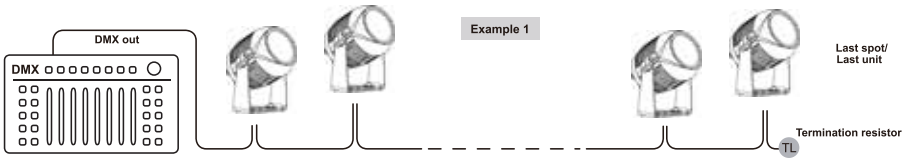


While the letters and number show change from white to yellow, it means the temperature is beyond the maximum temperature of default settings.

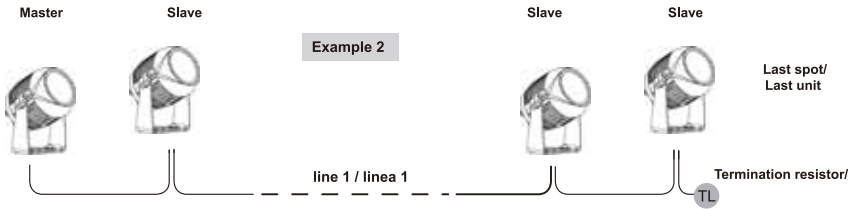


While the letters and number show Error, it means there are some problems with the temperature.

### 3. DMX connection



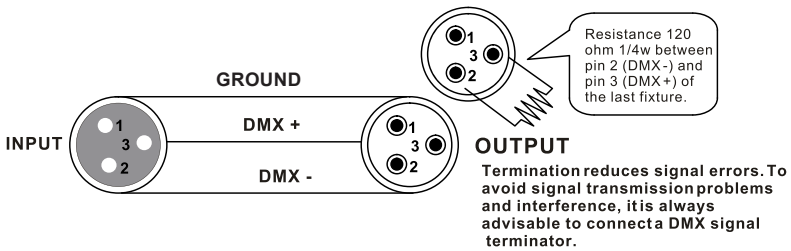
### 4. Master / Slave connection



### 5. CABLE CONNECTORS

Cabling must have a male XLR connector on one's end and a female XLR connector on the other's end.

#### DMX connector configuration



Caution: Do not allow contact between the ground and the fixture's chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

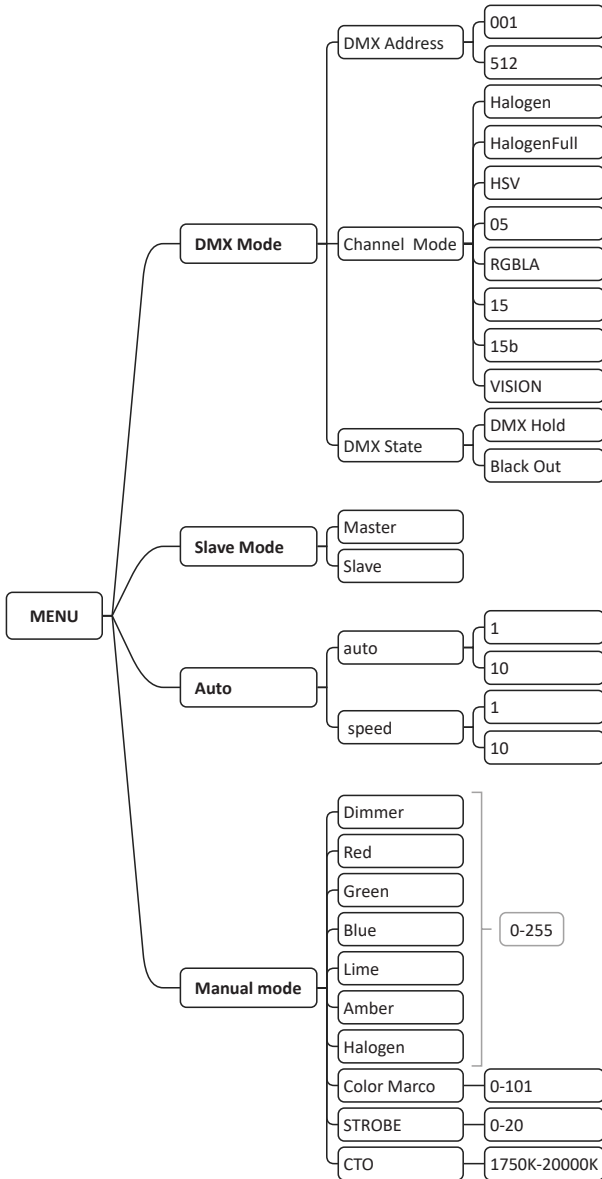
### 3-PIN TO 5-PIN CONVERSION CHART

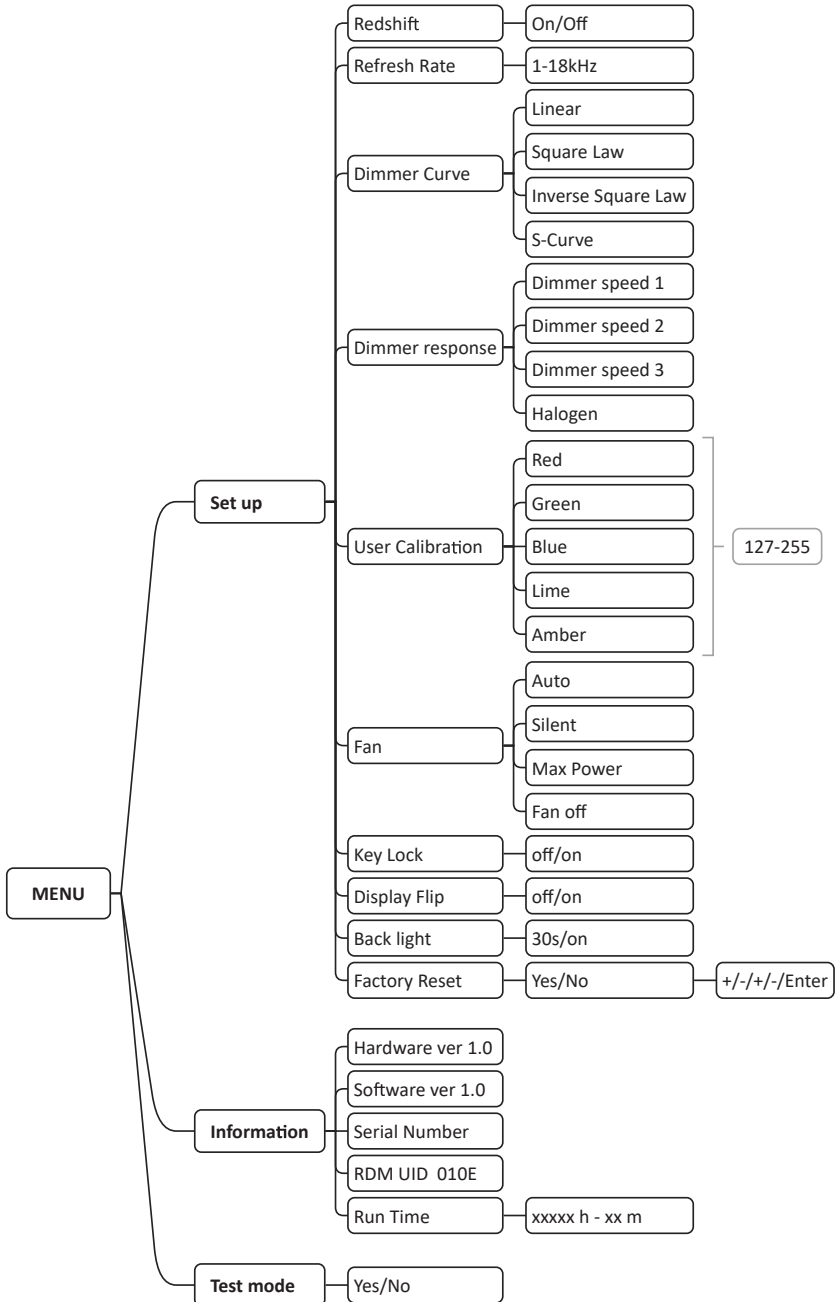
Please note if you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

3-PIN TO 5-PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data ( - ) signal	Pin 2	Pin 2
Data ( + ) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

# PROGRAMME MENU





**DMX Address and Channels Mode**-In these menu,you can connect several pieces of lights with DMX cable and control them with control console.

1. Press "ENTER" and then press "UP" or "DOWN" to "DMX Address", "Channels Mode" or "DMX State" and press "ENTER".

1) "XXX" will be showed in "DMX Address", "XXX" means the Address 1-512. You can press "UP" or "DOWN" to select the address you desired.

2) "Channel [xx]" will be showed in "Channels Mode", "XX" means 8 kinds of DMX Channels Modes. You can press "UP" or "DOWN" to select the Channel Mode you desired.

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.

**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 "01-10" for you choose.

2) AUTO MODE - It provides "AUTO 1- AUTO 10" for you choose.

**Manual MODE**-In this menu, you can adjust Dimmer, Halogen, Color Macro, Strobe, CTO you desired.

1. Press "ENTER" and then press "UP" or "DOWN" to "MANUAL MODE".

2. Press "ENTER" and there has 10 options then press "UP" or "DOWN" to select the value you desired as below:

1)Dimmer - You can adjust the overall brightness in this menu.

2)Red - You can adjust the brightness of Red in this menu.

3)Green - You can adjust the brightness of Green in this menu.

4)Lime - You can adjust the brightness of Lime in this menu.

5)Amber - You can adjust the brightness of Amber in this menu.

6)Halogen - You can adjust the brightness of Halogen in this menu.

7)Color Macro - You can select color 0-101 in this menu.

8)STROBE - You can adjust the speed of strobe in this menu.

9)CTO - You can adjust the color temperature in this menu.

**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)RedShift - In this item,the lamp displays the halogen effect when you select ON,and the lamp turns off the halogen effect when you select OFF.

2)Refresh Rate - it provides 1-18KHz of refresh rates for your choose

3)Dimmer Curve - It provides 4 kinds of dimmer curves for you choose.

4) Dimmer response - It provides 4 kinds of dimmer speed for you choose.

5) User Calibration - You can adjust the brightness of Red, Green, Blue, Lime, Amber.

6)Key Lock - You can select "OFF" or "ON" to make the Key Lock turn off all the time or turns on.

7)Display Flip - You can turn on/off the display flip.

8)Back light - You can choose turn on the backlight all the time or choose turn off 30s later.

9)FACTORY RESET-In this item, you can reset all the value of the system.

**INFORMATION**-In this menu, you can learn about the information of RDM, software, hardware , serial number and the run time of the light.

1. Press "ENTER" and then press "UP" or "DOWN" to "INFORMATION".

2. 2. Press "ENTER" and select "RDM" , "Serial number" , "Software" , "Hardware" or "Run times". Then press "ENTER",you can see 4 items as below:

1) Hardware - It shows the Hardware information.

2) Software - It shows the Software information.

3) Serial number - It shows the serial number information.

4) RDMUID - It shows RDM information.

5) Run times - It shows the working hours of the light.

**Test mode** - In this menu,you can test if the light work normally.

## DMX CONTROL MODE

Halogen CHANNELS		
Channel	Value	Function
1	000 - 255	Halogen Dimmer

HalogenFull channels		
1	000 - 255	Master Dimmer
2	000 - 255	Shutter
3	000 - 255	Halogen Dimmer
4	000 - 255	Dimmer Curve
5	000 - 255	Dimmer Response
6	000 - 255	Redshift

HSV channels		
1	000 - 255	HUE
2	000 - 255	Saturation
3	000 - 255	Value

5 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Color Marco
3	000 - 255	1750K- 20000K
4	000 - 255	whiteMagentaGreenShift
5	000 - 255	quality

RGBLA CHANNELS		
Channel	Value	Function
1	000 - 255	Red
2	000 - 255	Green
3	000 - 255	Blue
4	000 - 255	Lime
5	000 - 255	Amber

15 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Shutter
3	000 - 255	Red
4	000 - 255	Green
5	000 - 255	Blue
6	000 - 255	Amber
7	000 - 255	Lime
8	000 - 255	Color marco
9	000 - 255	CTO
10	000 - 255	Dimmer Curve
11	000 - 255	Dimmer Response
12	000 - 255	Redshift
13	000 - 255	Auto
14	000 - 255	Auto speed
15	000 - 255	Device setting

15b CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Dimmer fine
3	000 - 255	Shutter
4	000 - 255	Red
5	000 - 255	Red Fine
6	000 - 255	Green
7	000 - 255	Green Fine
8	000 - 255	Blue
9	000 - 255	Blue Fine
10	000 - 255	Lime
11	000 - 255	Lime fine
12	000 - 255	Amber
13	000 - 255	Amber fine
14	000 - 255	Dimmer Curve
15	000 - 255	Dimmer Response

Dimmer curve	000 - 51	No Function - Current Preset from Menu Settings
	052-101	Linear Dimmer Curve
	102-152	Square Law
	153-203	Inverse Square Law
	204-255	S-Curve

Dimmer response	000-042	No Function - Current Preset from Menu Settings
	043-084	Dimmer speed 1
	085-126	Dimmer speed 2
	127-169	Dimmer speed 3
	170-255	Halogen

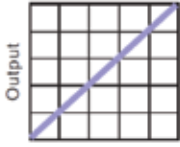
Redshift	000 - 084	No Function - Current Preset from Menu Settings
	085 - 170	Redshift Off
	171 - 255	Redshift On

Shutter	000 - 019	Shutter close
	020 - 024	Shutter open
	025 - 064	Strobe 1 (fast to slow)
	065 - 069	Shutter open
	070 - 084	Strobe 2: opening pulse (fast to slow)
	085 - 089	Shutter open
	090 - 104	Strobe 3: closing pulse (fast to slow)
	105 - 109	Shutter open
	110 - 124	Strobe 4: random strobe (fast to slow)
	125 - 129	Shutter open
	130 - 144	Strobe 5: random opening pulse (fast to slow)
	145 - 149	Shutter open
	150 - 164	Strobe 6: random closing pulse (fast to slow)
	165 - 169	Shutter open
	170 - 184	Strobe 7: burst pulse (fast to slow)
	185 - 189	Shutter open
	190 - 204	Strobe 8: random burst pulse (fast to slow)
	205 - 209	Shutter open
	210 - 224	Strobe 9: sine wave (fast to slow)
	225 - 229	Shutter open
230 - 244	Strobe 10: burst (fast to slow)	
245 - 255	Shutter open	

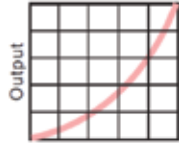
Device setting			
15	19	1Khz	RAT
20	24	2Khz	
25	29	3Khz	
30	34	4Khz	
35	39	5Khz	
40	44	6Khz	
45	49	7Khz	
50	54	8Khz	
55	59	9Khz	
60	64	10Khz	
65	69	11Khz	
70	74	12Khz	
75	79	13Khz	
80	84	14Khz	
85	89	15Khz	
90	94	16Khz	
95	99	17Khz	
100	104	18Khz	
105	109	no function	
110	114	Fan Auto	FAN
115	119	Fan Silent	
120	124	Fan Max Power	
125	129	Fan off	
130	134	no function	
135	139	Key lock off	
140	144	Key lock on	
145	174	no function	
175	179	Display Flip On	
180	184	Display Flip Off	
185	189	no function	
190	194	Display Back Light On	
195	199	Display Back Light 30S	
200	255	no function	

CTO					
11	1750K	86-87	3650K	160-161	5500K
12-13	1800K	88-89	3700K	162-163	5550K
14-15	1850K	90-91	3750K	164-165	5600K
16-17	1900K	92-93	3800K	166-167	5650K
18-19	1950K	94-95	3850K	168-169	5700K
20-21	2000K	96-97	3900K	170-171	5750K
22-23	2050K	98-99	3950K	172-173	5800K
24-25	2100K	100-101	4000K	174-175	5850K
26-27	2150K	102-103	4050K	176-177	5900K
28-29	2200K	104-105	4100K	178-179	5950K
30-31	2250K	106-107	4150K	180-181	6000K
32-33	2300K	108-109	4200K	182-183	6250K
34-35	2350K	110-111	4250K	184-185	6500K
36-37	2400K	112-113	4300K	186-187	6750K
38-39	2450K	114-115	4350K	188-189	7000K
40-41	2500K	116-117	4400K	190-191	7250K
42-43	2550K	118-119	4450K	192-193	7500K
44-45	2600K	120-121	4500K	194-195	7750K
46-47	2650K	122-123	4550K	196-197	8000K
48-49	2700K	124-125	4600K	198-199	8250K
50-51	2750K	126-127	4650K	200-201	8500K
52-53	2800K	128-129	4700K	202-203	8750K
54-55	2850K	130-131	4750K	204-205	9000K
56-57	2900K	132-133	4800K	206-207	9250K
58-59	2950K	134-135	4850K	208-209	9500K
60-61	3000K	136-137	4900K	210-211	9750K
62-63	3050K	138-139	4950K	212-213	10000K
64-65	3100K	140-141	5000K	214-215	11000K
66-67	3150K	142-143	5050K	216-217	12000K
68-69	3200K	144-145	5100K	218-219	13000K
70-71	3250K	146-147	5150K	220-221	14000K
72-73	3300K	148-149	5200K	222-223	15000K
74-75	3350K	150-151	5250K	224-225	16000K
76-77	3400K	152-153	5300K	226-227	17000K
78-79	3450K	154-155	5350K	228-229	18000K
80-81	3500K	156-157	5400K	230-231	19000K
82-83	3550K	158-159	5450K	232-233	20000K
84-85	3600K				

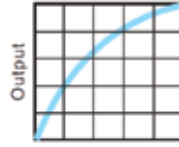
## DIMMER CURVE



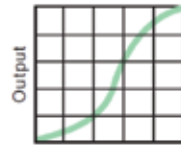
DMX %  
LINEAR



DMX %  
SQUARE LAW

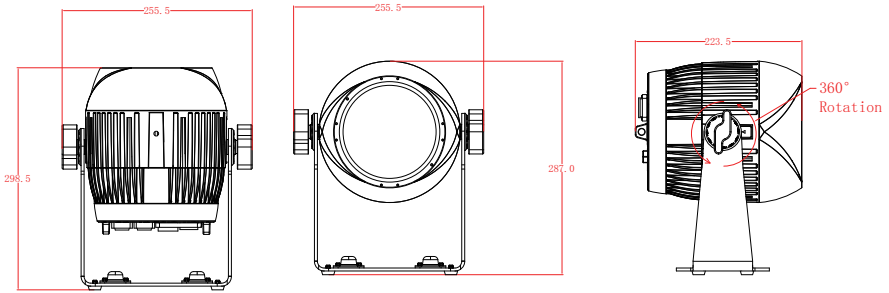


DMX %  
INVERSE SQUARE LAW

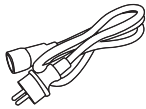


DMX %  
S-CURVE

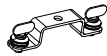
## MECHANICAL SPECIFICATION



## ACCESSORY



Power cable



Fast lock

## OPTIONAL ACCESSORIES



Halogen lens



Frosted lens



Fresnel lens



Barndoor



Fast lock  
metal plate



Connector



Panel

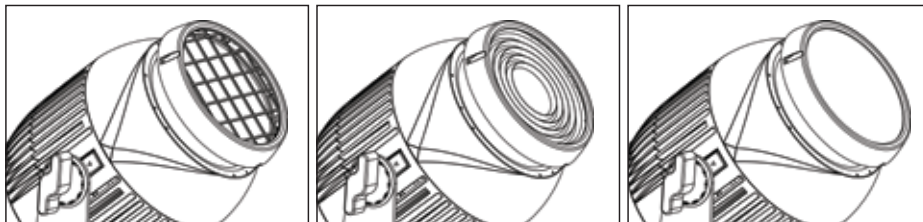
# RDM

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		√	√
“√”-executable command; “x”-to-be-updated command			

## INSTALLATION

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

- *Magnetic Lens Optional(Halogen lens/Fresnel lens/Frosted lens)*



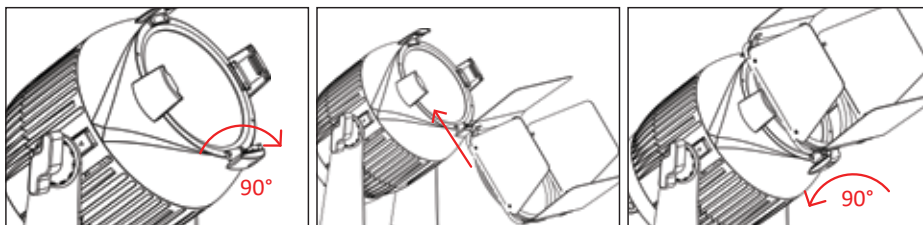
*Halogen lens*

*Fresnel lens*

*Frosted lens*

Replace lenses effortlessly to achieve diverse lighting effects without tools. The magnetic connection between the lens and the pre-installed magnets inside the fixture ensures a secure and stable attachment.

- *Barndoor*



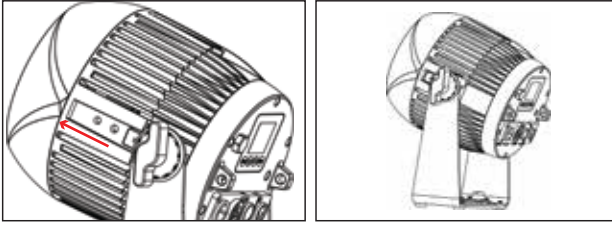
This barndoor prevents light leakage and is compatible with the magnetic cover. Pull the latch outward and rotate it 90 degrees. Slide the barndoor into position. After installation, pull the latch outward again and rotate it back 90 degrees to secure.



*Note:*

*When using both the magnetic cover and barndoor, please cut off the four slots on the magnetic cover.*

- *Bracket*



Align the pre-assembled handle with the grooves on the body. Push the handle forward until it clicks into position. Tighten the knob to lock the handle securely.

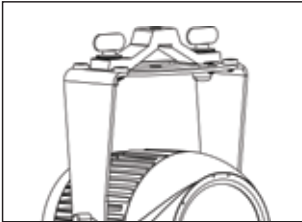
*Note:*

*Install the handle slider with the arrow-printed side facing outward and the arrow pointing toward the knob.*

2.DOLT C may be installed in any orientation. Our product provides several options:

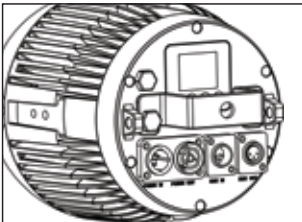
**HANGING**

- *Mounting point for fast lock*



Align the quick lock with the mounting hole on handle. Insert it into the hole and tighten to complete installation

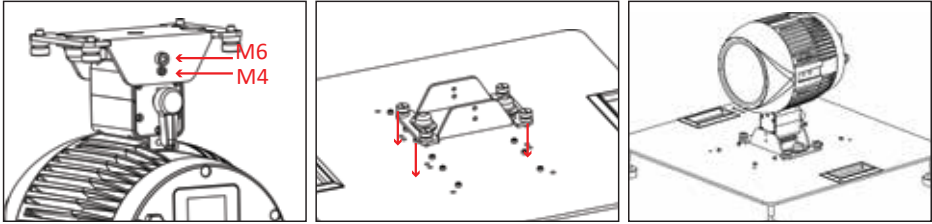
- *Fast lock metal plate*



Align the Fast lock metal plate with the mounting holes on the rear of the body. Fix it in place using M10×14 hex head screw. Ensure the fast lock metal plate is fully tightened to securely attach the DOLT C to the support structure.

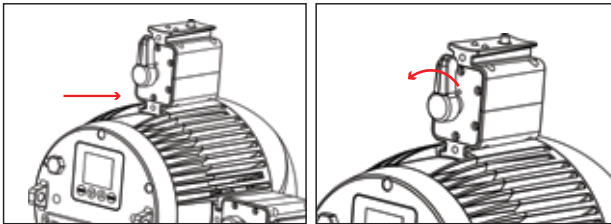
## STANDING

### ● AP03 Base



The AP03 can be installed in four directions (vertical or horizontal orientations) using a panel for single-row vertical configurations. Secure the panel and connector to the base with M6 and M4 hex socket screws. Then attach the panel to the AP03 using captive screws which pre-installed with the panel.

## SPLICING



Connector for multi-unit fixtures assembly:

Align the connector with the groove and push forward to install. To remove, please turn the knob counterclockwise and detach.

- *Splicing effect*

