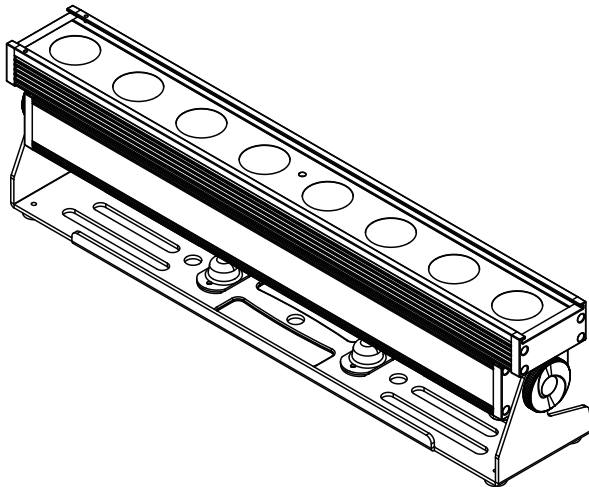


SHOWPRO

Expo Bar

SHWBAR120

RGBW - IP65



User Manual

Introduction

Packaging: Thank you for purchasing the Expo Bar. Before operating, please check the fixture to ensure that no damage has occurred during transit. If damage is found, or the light operates abnormally, please contact the distributor for further instructions.

Overview: The Expo Bar has three operating modes:

- DMX Mode
- Auto Mode
- Master/Slave Mode

There are five DMX modes: 3, 8, 12, 32 and 37 channel.

SAFETY AND HANDLING

Before operating the Expo Bar, read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. This manual cannot address all possible dangers and working environments. Please use your own caution when operating. This product is for professional use only, not household use.



- Do not operate this unit in areas with high ambient temperatures. It will cause abnormal function or damage.
- Always use a suitable safety wire when rigging the light overhead.
- Connect the safety wire to the intended safety mount.
- Always follow local safety requirements.



- Only qualified technicians may repair this product.
- Do not open the product housing.
- Do not supply power if the fixture is damaged.



- Do not look directly into the light source.
- Looking into the light source can cause damage to your eyes.
- Do not look at the light source with a magnifying glass or any other optical instrument that may concentrate the light output.



- The housing of the fixture can become hot. It can reach up to 70°C during normal operation.
- Ensure that accidental physical contact cannot occur with the fixture.
- Only install in well ventilated locations.
- Do not cover the fixture.



LI-ION Battery: A rechargeable lithium ion battery is built into this unit.

- Only authorised technicians may service the battery
- Do not place near heat or flames.
- Do not use or charge the fixture if damaged.
- Avoid bumping or dropping. It may cause a fire or an explosion.
- Never store the battery when fully drained.
- Immediately recharge if the battery is drained.
- Make sure to fully charge all units before storing them.
- Partially charged batteries will lose capacity.
- The battery shall only be replaced with an original spare part.



- Always charge with the flight case open.
- It is recommended to charge with ambient temperatures between 15°C and 35°C.



- The light contains a lithium ion battery.
- At end of life, dispose the unit responsibly in accordance to local regulations or procedures.
- The packaging is recyclable.

Troubleshooting

The fixture does not turn on.

The battery might not have charge. Connect to power and try again.

The fixture and display turns on, but the LED engine does not emit.

The fixture could be set to BLACKOUT mode or set to DMX Hold and isn't receiving a valid signal. Verify if receiving DMX. Perform a Factory Reset.

The fixture is not working correctly- it does not output the colour or effect it should be.

Check that the DMX address and mode is set correctly. Ensure that the fixture is receiving DMX. Otherwise perform a Factory Reset.

The fixture still cannot be controlled, or not as expected after Factory Reset.

Power cycle the fixture. If the issue still occurs, contact distributor.

The fixture doesn't run long enough on battery.

The fixture runtime can be set and is defaulted to seven hours. You can set the runtime to a different duration if required.

Alternatively program the fixture using colours with less mixing.

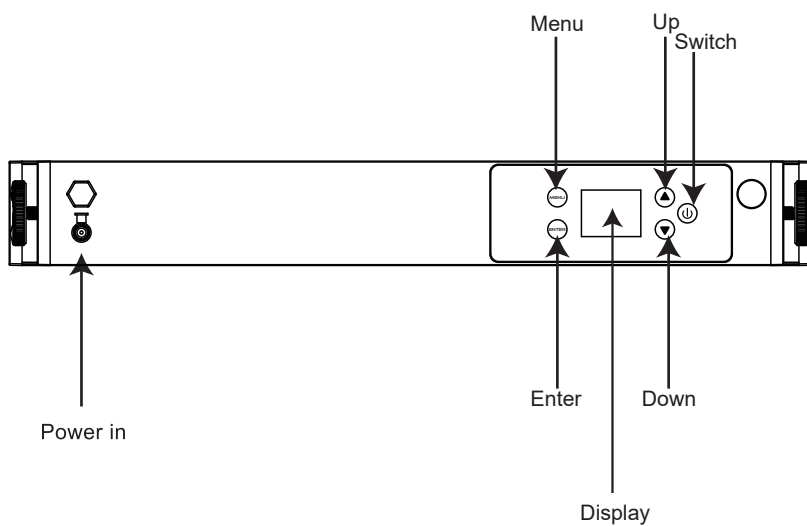
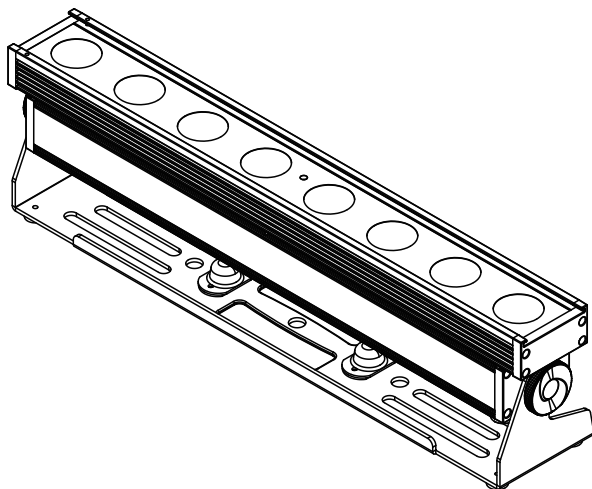
The batteries performance can be reduced in colder environments.

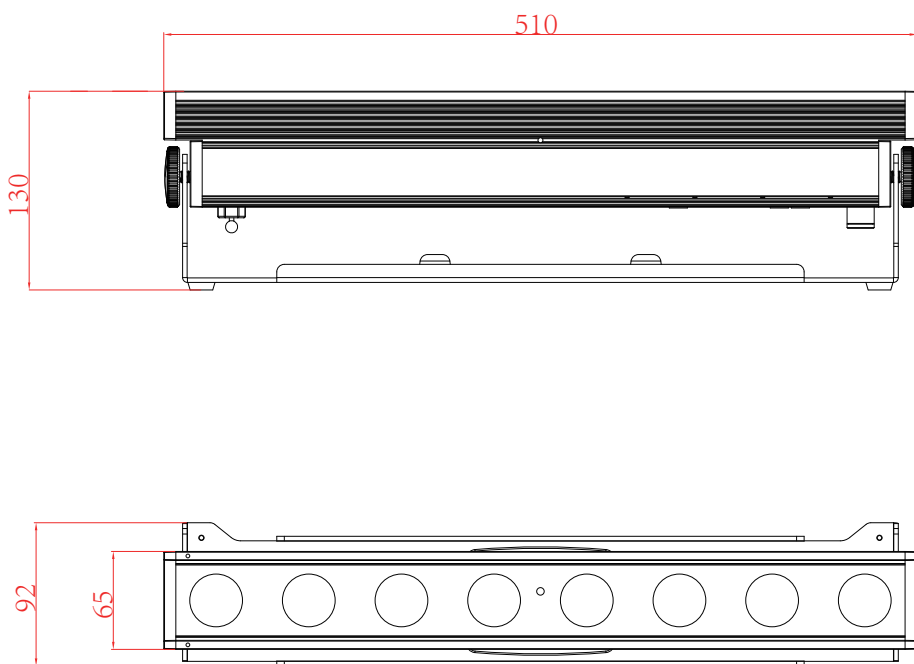
The fixture is not charging when connected to power.

The fixture will only charge when the battery is less than 45°C. Turn the fixture off and allow the fixture to cool down after operation. Once at the optimal temperature, the fixture will begin to charge.

If the fixture still doesn't charge, please contact the distributor.

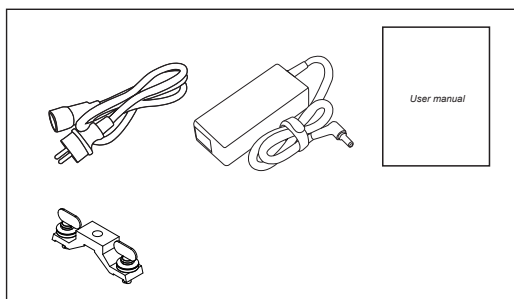
Mechanical Specification



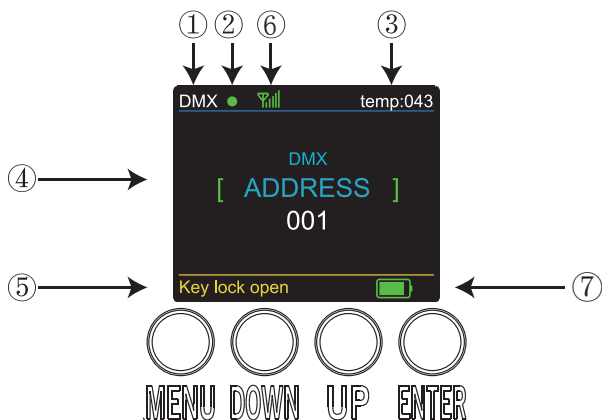


Package Contents

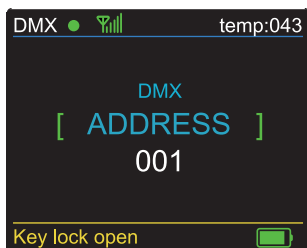
- 1 x Power cable
- 1 x Power adapter
- 1 x User manual
- 1 x Fast lock



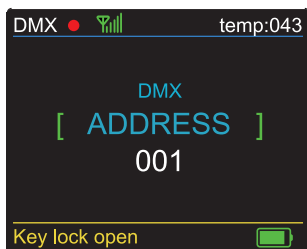
Display Introduction



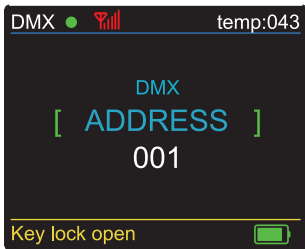
1. Indicates if you are in DMX mode or in SLAVE mode. Will display either DMX or SLAVE.
2. Displays the condition of signal being transmitted. Green is connected. Red is disconnected.
3. The temperature of the fixture.
4. The current menu selection.
5. Status of the key lock.
6. Indicates the condition of the wireless signal. Green is connected and red is disconnected.
7. Indicates the battery capacity/usage.



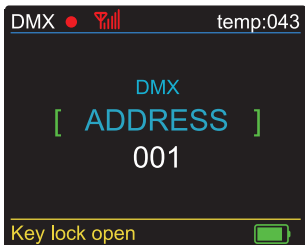
When DMX and Wireless signal is green, it means that DMX and Wireless is activated and connected.



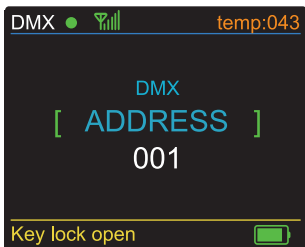
When DMX is red but Wireless signal is green, it means DMX is disconnected and Wireless is connected.



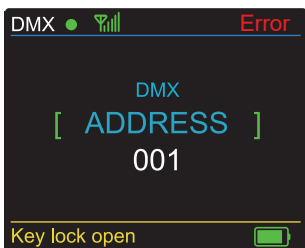
If DMX is green and wireless signal is red, DMX is connected and Wireless is disconnected.



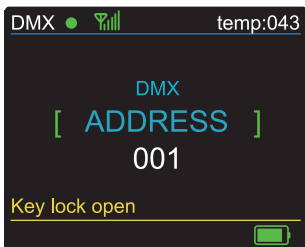
If DMX and Wireless is red, DMX and Wireless is disconnected.



If the temperature goes from white to yellow, the temperature is beyond the max temperature set in settings.

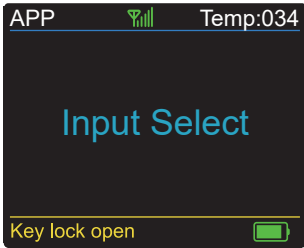


If there is no temperature and “Error” is displayed, there is an issue with the fixtures temperature and further investigation needs to be made.

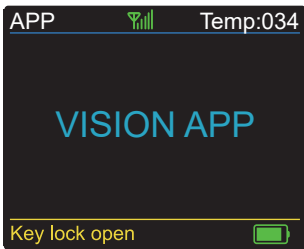


When the battery is charging, the icon will run from empty to full. When charging has been stopped, the icon will show the battery level.

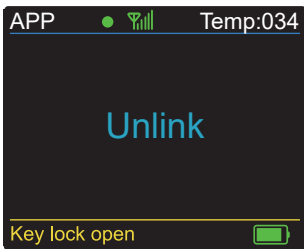
APP Connection



Navigate to the 'Input Select' menu and press ENTER.



Press ENTER with 'Vision App' selected.



Press ENTER on 'Unlink' menu, and press ENTER again.

App Download

Open the camera application on your device and scan the QR code which corresponds to the operating software on that device. The link will navigate you to download the Vision Control App.



App Store

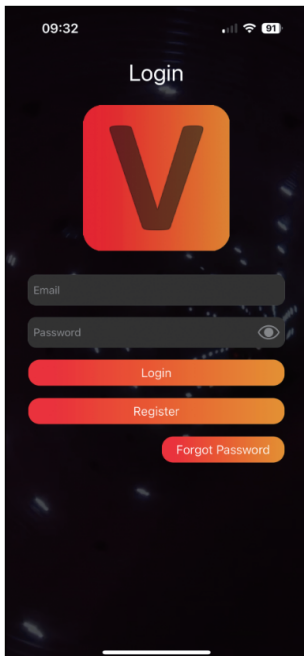


Google Play



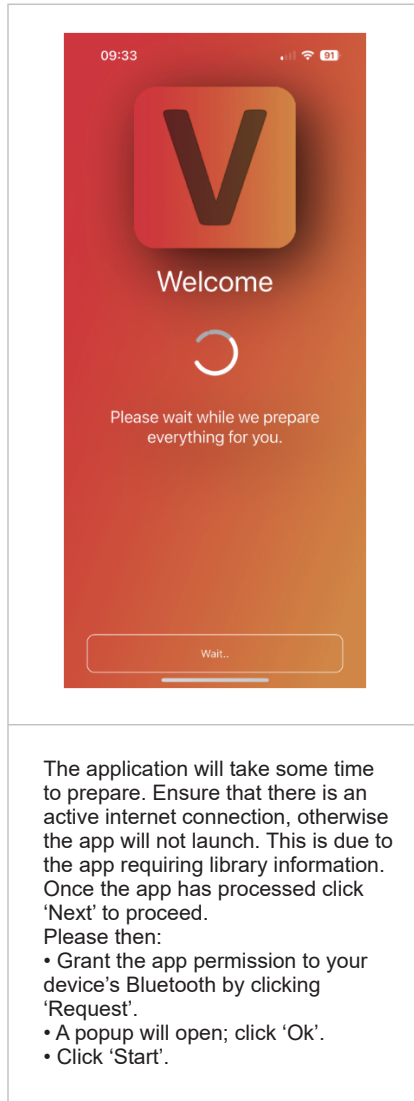
Microsoft



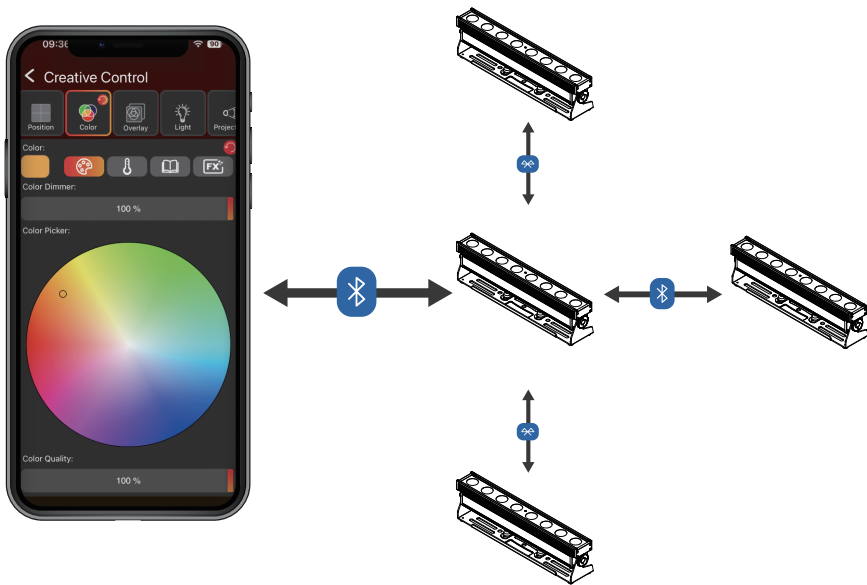


Once you have downloaded the Vision App via the QR codes provided, open the app.

- Click the register button to enter the registration screen.
- Fill in all required fields and click 'Register' to submit the information.
- Check your email for confirmation (check the spam folder if it's not in your inbox).
- Click on the confirmation link provided in the email. This will navigate you to a website with confirmation of successful registration.
- Return to the Vision App and use the email and password you registered with.



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 separate 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

Features

OPTICS

- Light Source: 8×10W RGBW LEDs
- Beam Angle: 15°
- DMX Channel: 3, 8, 12, 32& 37 CH

ELECTRICAL

- Power consumption: 65W
- Voltage: AC 110 - 240V, 50/60Hz
- Input voltage: DC 15V / 5A

BATTERY

- Battery: Lithium Batteries
- Charge Time: 4 Hours
- Working Time: 4-19h + overboost
- 70% after 300 times charging recycle

EFFECT

- Electronic 16-bit dimmer, 50 preset colour macros, CCT range of 2500K to 10,000K.
- Built-in Effect: Colour mixing, colour chasing, strobing and fade.

CONTROL

- Lumen radio
- Run Mode: Static Mode /Master & Slave /Auto Mode
- Bluetooth
- Protocol: DMX 512, RDM

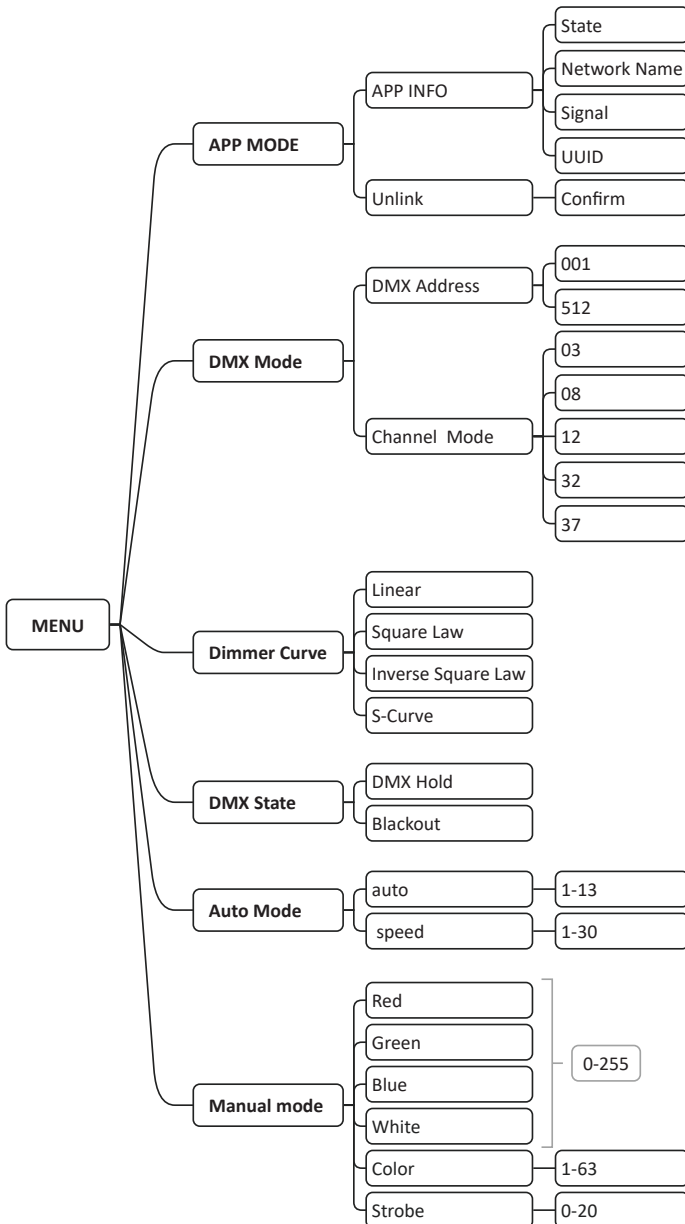
SOFTWARE

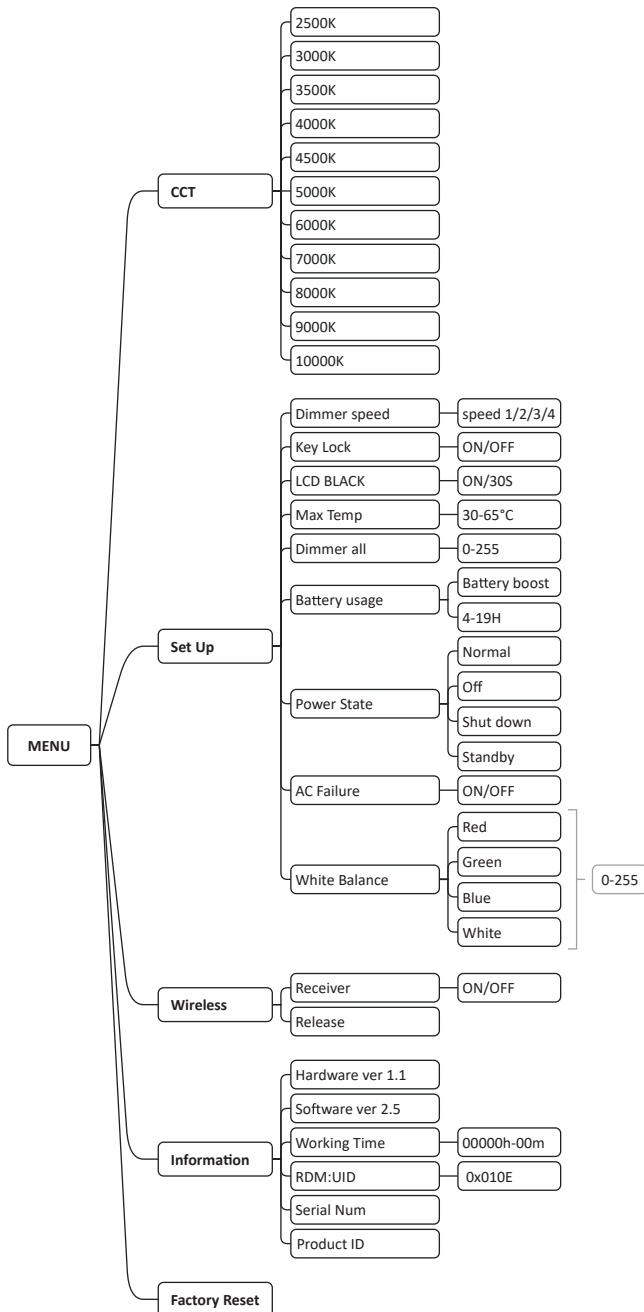
- 13 internal programs
- 4 dimming curves
- Smart temperature control
- Run time record

PHYSICAL

- Material: Aluminum body
- TFT Display with four buttons
- Dimensions: 510 x 92 x 130mm
- Weight: 3.5kg
- IP Rating: IP65

Menu Structure





APP Mode-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 "APP MODE" appears.
- 2) Press ENTER to display "UNLINK". Press ENTER again to show "CONFIRM", then press ENTER once more to clear the connection.
- 3) Press "up" or "down" button, and the APP connection state, network name, signal and UUID will be displayed.

DMX MODE- In this mode you control the lights with an external controller outputting DMX512 protocol.

- (1) Press ENTER button and use the UP or DOWN buttons until "DMX ADDRESS " is displayed. Press the ENTER button, "xxx" will appear. "x" represents the current address set. Use UP or DOWN to set the desired address (001-512).
- (2) Press ENTER and use UP or DOWN buttons until "CHANNEL MODE " is displayed. Press ENTER, "Channel [xx]" will appear. "x" represents the current DMX channel mode. Use the UP or DOWN buttons to select your desired Channel mode(03,08,12,32,37).

Dimmer Curve-Can select a desired dimming curve - Linear, Square Law, Inv Squ Law and S-Curve.

DMX State: In this menu, you can adjust the DMX state (DMX HOLD, BLACK OUT):

- (1) DMX HOLD – Holds last DMX when signal is lost.
- (2) BLACKOUT - Blackouts output when signal is lost.

AUTO MODE- In this menu, you can select an AUTO mode (1-13) and adjust the running speed (1-30).

1. Press ENTER and use UP or DOWN until "AUTO" is displayed.
2. Press ENTER, and "SPEED" or "AUTO MODE" will appear. Press ENTER to select and adjust either:
 - (1) SPEED - Select the desired speed.
 - (2) AUTO - Select the desired auto mode.

MANUAL MODE-In this menu, you can adjust RGBW(0-255), COLOUR(1-50), and STROBE(1-20).

1. Press the ENTER button and use UP or DOWN until "MANUAL" is displayed.
2. Press ENTER. There are 6 options to select from. Use the UP or DOWN buttons and press ENTER to select and confirm the desired option and value.
 - (1) RED - Manually set the red intensity.
 - (2) GREEN - Manually set the green intensity.
 - (3) BLUE - Manually set the blue intensity.
 - (4) WHITE - Manually set the white intensity.
 - (5) COLOUR - Sets the fixture to one of the 63 pre-programmed colours.
 - (6) STROBE - Set and adjust the strobe speed.

CCT-Manually set the colour temperature of the fixture from 2500K to 10,000K

SET UP-In this menu, you can adjust the value of the function.

1. Press the ENTER button and use the UP or DOWN buttons until "SET UP" is displayed.
2. Press ENTER. There will be 9 options. Press ENTER to select an option and use UP or DOWN to change values.
 - 1) Dimmer speed - Can select a dimming speed mode
 - 2) Key locks - Choose whether the menu password is active.By default the password is UP-DOWN-UP-DOWN .If "ON", the user has to input the password

before entering the menu. The light cannot be altered until the correct password is entered.

- 3) LCD BLACK -Select between "ON" or "30S". If "ON" is selected, the display will constantly output.. If "30S" is selected, the display will turn off after 30 seconds of no user input
- 4) Max temp - A custom Max working temperature can be set for the fixture. When the temperature exceeds the value set, the text colour of "Temp xx" in the main display will change from white to yellow. Meanwhile, the fixture will adjust the working temperature automatically.
- 5) Dimmer ALL - Adjusts the brightness over all colours.
- 6) Battery usage - Adjust the battery runtime with OVERBOOST or from 4 to 19 hours
- 7) Power State - Sets the power status. "Normal" means normal operation, "OFF" and "Shutdown" is direct shutdown, and "Standby" turns the screen and LEDs off.
- 8) AC Failure - Tests the power supply system and ensures proper operation.
- 9) White Balance - Adjust the brightness of each colour from 0-255

WIRELESS- Set or clear a wireless connection.

1. Press ENTER and use UP or DOWN until "WIRELESS" is displayed.
2. Press ENTER, and "RECEIVER" or "RELEASE" will be appear. Use UP or DOWN to navigate and ENTER to confirm either of the following:
 - (1)Receiver- Enable or disable wireless functionality of the fixture. "ON" enables wireless signal. "OFF" disables wireless functionality.
 - (2)Release- Clears previous links and connections. "SUCCESS" will be displayed when the wireless connection has been successfully cleared.

INFORMATION-Provides information of the software version, hardware, RDM UID, Serial number, Product ID and the working time of the fixture.

1. Press "ENTER" button and then UP or DOWN button until "INFORMATION" is displayed.
2. Press ENTER. Use UP or DOWN to navigate and then ENTER to view:
 - 1) Software - This item displays the Software information.
 - 2) Hardware - This item displays the Hardware information.
 - 3) Working time - This item displays the working hours about the light.
 - 4) RDM UID - This item displays the RDM UID information.
 - 5) Serial Number - This item displays the Serial Number information.
 - 6) Product ID - The Product ID of the fixture.

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

1. Press "ENTER" button and then UP or DOWN button until "Factory Reset" is displayed.
2. Press the ENTER button to reset all the value of the system. The password is: UP-DOWN-UP-DOWN

DMX Chart

MODE 3 CHANNELS		
Channel	Value	Function
1	000 - 255	HUE
2	000 - 255	Saturation
3	000 - 255	Value

MODE 8 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 020	No Function
	021 - 080	Dimmer Curve1
	081 - 140	Dimmer Curve2
	141 - 200	Dimmer Curve3
	201 - 255	Dimmer Curve4
3	000 - 020	No Function
	021 - 080	Dimmer speed 1
	081 - 140	Dimmer speed 2
	141 - 200	Dimmer speed 3
	201 - 255	Dimmer speed 4
4	000 - 255	Red
5	000 - 255	Green
6	000 - 255	Blue
7	000 - 255	White
8	000 - 255	Strobe

MODE 12 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 020	No Function
	021 - 080	Dimmer Curve1
	081 - 140	Dimmer Curve2
	141 - 200	Dimmer Curve3
	201 - 255	Dimmer Curve4
3	000 - 020	No Function
	021 - 080	Dimmer speed 1
	081 - 140	Dimmer speed 2
	141 - 200	Dimmer speed 3
	201 - 255	Dimmer speed 4
4	000 - 255	red
5	000 - 255	Green
6	000 - 255	Blue
7	000 - 255	White
8	000 - 255	Strobe
9	000 - 255	color
10	000 - 255	CCT
11	000 - 255	Auto 1-13
12	000 - 255	speed slow - fast

MODE 32 CHANNELS		
Channel	Value	Function
1	000 - 255	Led1 Red
2	000 - 255	Led1 Green
3	000 - 255	Led1 Blue
4	000 - 255	Led1 White
5	000 - 255	Led2 Red
6	000 - 255	Led2 Green
7	000 - 255	Led2 Blue
8	000 - 255	Led2 White
9	000 - 255	Led3 Red
10	000 - 255	Led3 Green
11	000 - 255	Led3 Blue
12	000 - 255	Led3 White
13	000 - 255	Led4 Red
14	000 - 255	Led4 Green
15	000 - 255	Led4 Blue
16	000 - 255	Led4 White
17	000 - 255	Led5 Red
18	000 - 255	Led5 Green
19	000 - 255	Led5 Blue
20	000 - 255	Led5 White
21	000 - 255	Led6 Red
22	000 - 255	Led6 Green
23	000 - 255	Led6 Blue
24	000 - 255	Led6 White
25	000 - 255	Led7 Red
26	000 - 255	Led7 Green
27	000 - 255	Led7 Blue
28	000 - 255	Led7 White
29	000 - 255	Led8 Red
30	000 - 255	Led8 Green
31	000 - 255	Led8 Blue
32	000 - 255	Led8 White

MODE 37 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 020	No Function
	021 - 080	Dimmer Curve1
	081 - 140	Dimmer Curve2
	141 - 200	Dimmer Curve3
	201 - 255	Dimmer Curve4
3	000 - 020	No Function
	021 - 080	Dimmer speed 1
	081 - 140	Dimmer speed 2
	141 - 200	Dimmer speed 3
	201 - 255	Dimmer speed 4
4	000 - 255	Led1 Red
5	000 - 255	Led1 Green
6	000 - 255	Led1 Blue
7	000 - 255	Led1 White
8	000 - 255	Led2 Red
9	000 - 255	Led2 Green
10	000 - 255	Led2 Blue
11	000 - 255	Led2 White
12	000 - 255	Led3 Red
13	000 - 255	Led3 Green
14	000 - 255	Led3 Blue
15	000 - 255	Led3 White
16	000 - 255	Led4 Red
17	000 - 255	Led4 Green
18	000 - 255	Led4 Blue
19	000 - 255	Led4 White
20	000 - 255	Led5 Red
21	000 - 255	Led5 Green
22	000 - 255	Led5 Blue
23	000 - 255	Led5 White
24	000 - 255	Led6 Red
25	000 - 255	Led6 Green
26	000 - 255	Led6 Blue
27	000 - 255	Led6 White

28	000 - 255	Led7 Red
29	000 - 255	Led7 Green
30	000 - 255	Led7 Blue
31	000 - 255	Led7 White
32	000 - 255	Led8 Red
33	000 - 255	Led8 Green
34	000 - 255	Led8 Blue
35	000 - 255	Led8 White
36	000 - 255	Auto 1-13
37	000 - 255	speed slow -fast/strobe

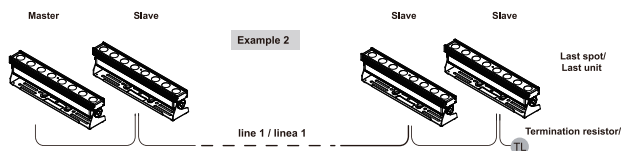
COLOR					
24	27	color 1	124	127	color 26
28	31	color 2	128	131	color 27
32	35	color 3	132	135	color 28
36	39	color 4	136	139	color 29
40	43	color 5	140	143	color 30
44	47	color 6	144	147	color 31
48	51	color 7	148	151	color 32
52	55	color 8	152	155	color 33
56	59	color 9	156	159	color 34
60	63	color 10	160	163	color 35
64	67	color 11	164	167	color 36
68	71	color 12	168	171	color 37
72	75	color 13	172	175	color 38
76	79	color 14	176	179	color 39
80	83	color 15	180	183	color 40
84	87	color 16	184	187	color 41
88	91	color 17	188	191	color 42
92	95	color 18	192	195	color 43
96	99	color 19	196	199	color 44
100	103	color 20	200	203	color 45
104	107	color 21	204	207	color 46
108	111	color 22	208	211	color 47
112	115	color 23	212	215	color 48
116	119	color 24	216	219	color 49
120	123	color 25	220	222	color 50
			223	255	color 51

CCT		
1	23	2500k
24	47	3000K
48	71	3500K
72	95	4000K
96	119	4500K
120	143	5000K
144	167	6000K
168	191	7000K
192	215	8000K
216	239	9000K
240	255	10000K

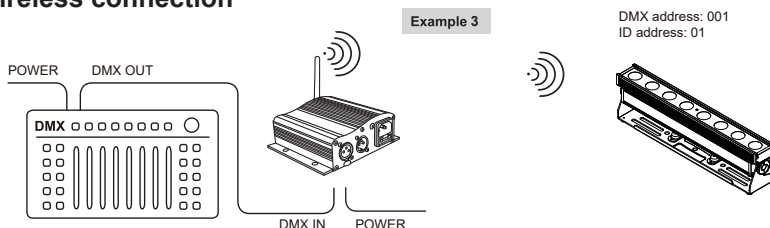
AUTO		
8	23	auto1
24	39	auto2
40	55	auto3
56	71	auto4
72	87	auto5
88	103	auto6
104	119	auto7
120	135	auto8
136	151	auto9
152	167	auto10
168	183	auto11
184	199	auto12
200	255	auto13

Connection

Master / Slave connection



Wireless connection



Ensure that the fixture is set to receive WDMX:

Menu > Wireless > Receiver > On

Pairing:

Menu > Wireless > Release > Press 'ENTER' button

Once paired successfully the fixture will display a green wireless signal.

A red wireless signal symbol represents no connection.

Release Pairing

Menu > Wireless > Release > Press 'ENTER' button

To clear the pairing after successful connection, navigate until 'Release?' is displayed. Press the 'Enter' button to release. The display will show "SUCCESS" when the signal is successfully released. And the wireless signal icon will turn green to red.

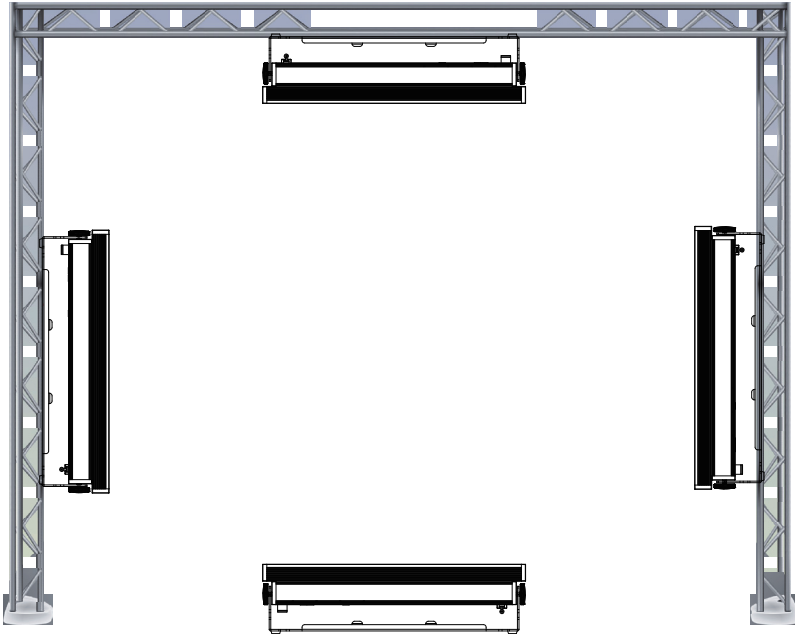
Ensure that the transmitter is placed in a good position. The antenna of the fixtures should face towards the transmitter. The estimated wireless range is 200m.

Mounting

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit, secure it with an appropriately rated safety chain. Ensure the area beneath the fixture is clear when mounting, removing or servicing the unit.

Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the unit.

If you lack these qualifications, do not attempt the installation yourself. The installation should be checked by a skilled technician once a year.



The Expo Bar is fully operational in three different mounting positions: hanging upside-down from a ceiling, set on a flat level surface or mounted on its side.

Be sure to keep the fixture at least 0.5m away from any flammable materials (decorations etc.). Use an appropriately rated safety chain to prevent accidental damage or injury to persons in the event the clamp fails.

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		√	√