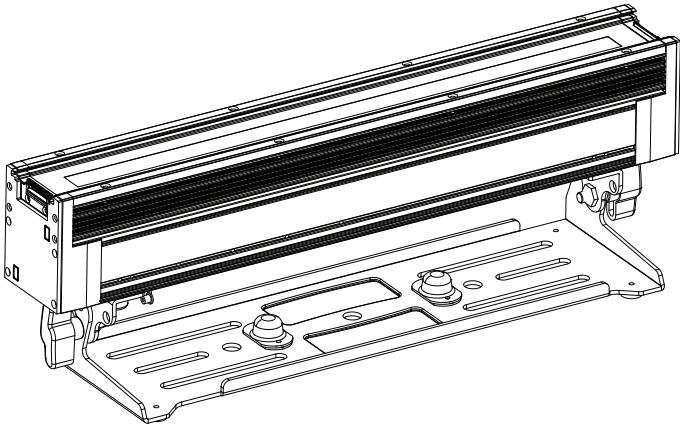# SHOWPRO

Deco Bar

SHWBAR100
RGB - IP65

User Manual

Introduction

Packaging: Thank you for purchasing the ShowPRO Deco 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 Deco Bar has three operating modes:
- DMX Mode
- Auto Mode
- Master/Slave Mode

There are five DMX modes: 2, 3, 4, 7 and 10 channel.

SAFETY AND HANDLING

Before operating the Deco 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 by removing the power. 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

Menu   Up   Switch

Enter   Down

Power in

Display

515

170

70

117

UP

DOWN

NOLLY

NOLLY
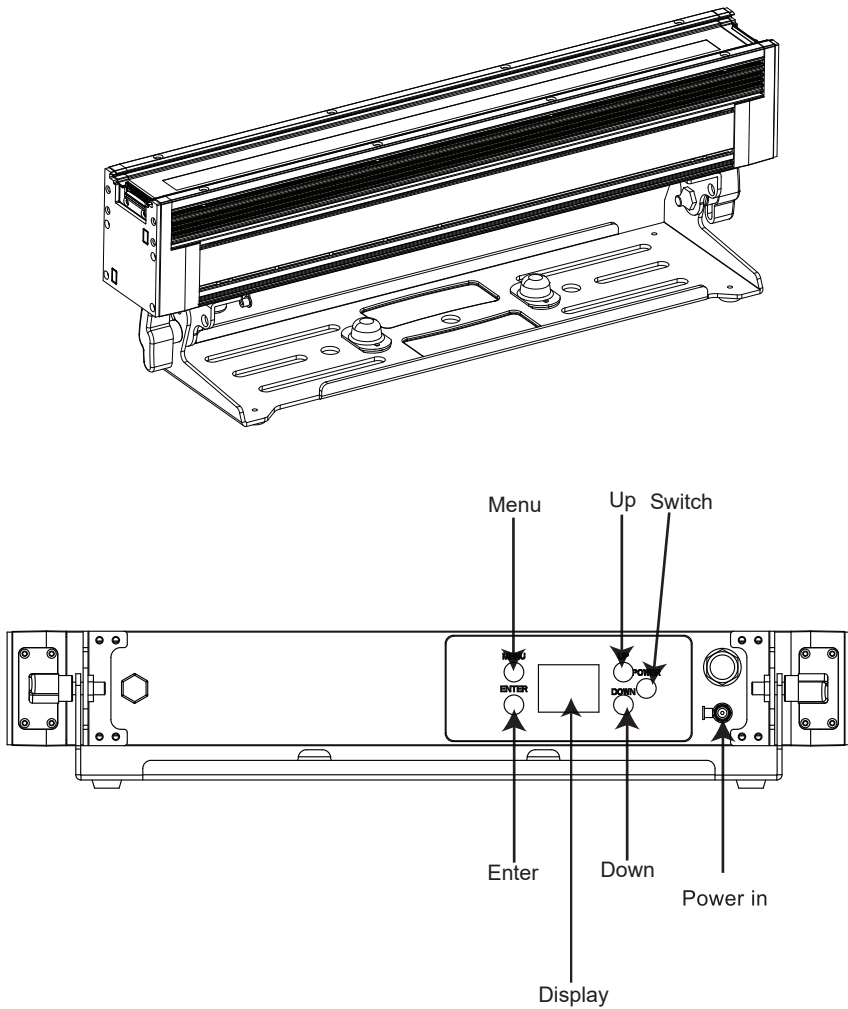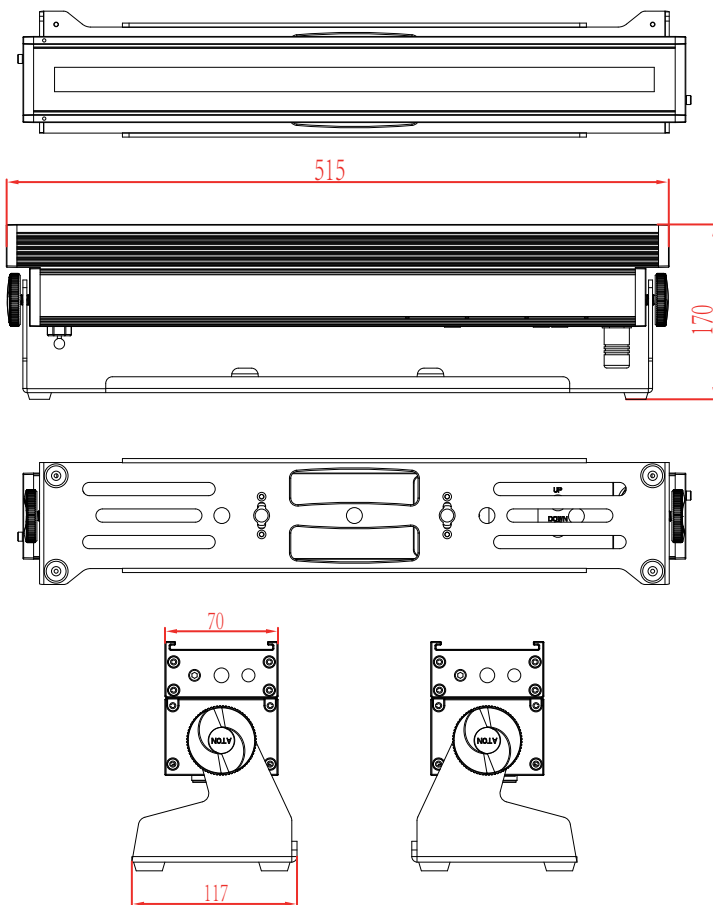
Package Contents

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

User manual
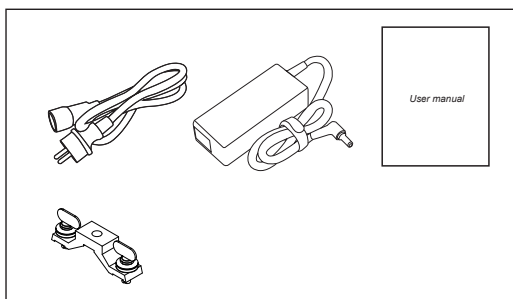
Display Introduction
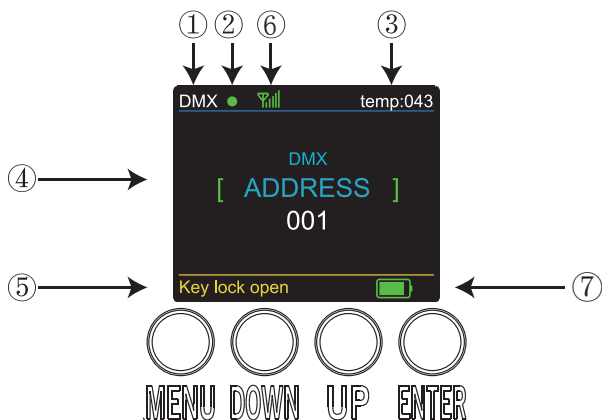
1.Indicates if you are in DMX mode or in SLAVE mode. Will display either DMX or SLAVE.

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.
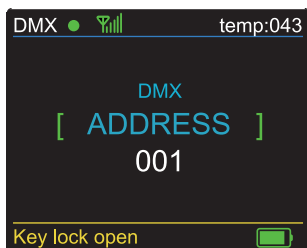
DMX ● 📶 temp:043 DMX [ADDRESS] 001 Key lock open	When DMX and Wireless signal is green, it means that DMX and Wireless is activated and connected.
DMX ● 📶 temp:043 DMX [ADDRESS] 001 Key lock open	When DMX is red but Wireless signal is green, it means DMX is disconnected and Wireless is connected.
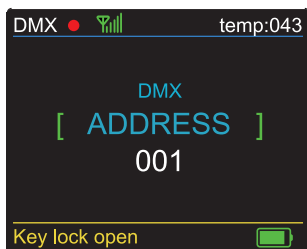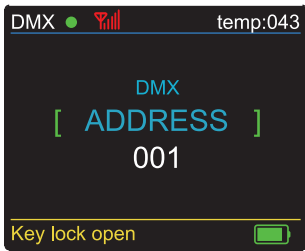
DMX ● ▼ill temp:043 DMX [ADDRESS] 001 Key lock open ▭	If DMX is green and wireless signal is red, DMX is connected and Wireless is disconnected.
DMX ● ▼ill temp:043 DMX [ADDRESS] 001 Key lock open ▭	If DMX and Wireless is red, DMX and Wireless is disconnected.
DMX ● ▼ill temp:043 DMX [ADDRESS] 001 Key lock open ▭	If the temperature goes from white to yellow, the temperature is beyond the max temperature set in settings.
DMX ● ▼ill Error DMX [ADDRESS] 001 Key lock open ▭	If there is no temperature and "Error" is displayed, there is an issue with the fixtures temperature and further investigation needs to be made.
DMX ● ▼ill temp:043 DMX [ADDRESS] 001 Key lock open ▭	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.
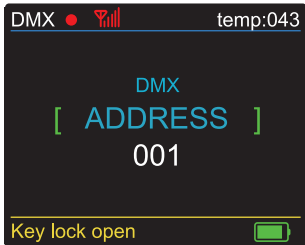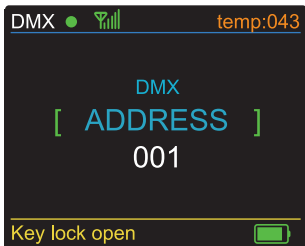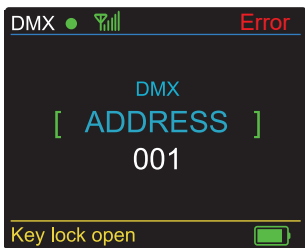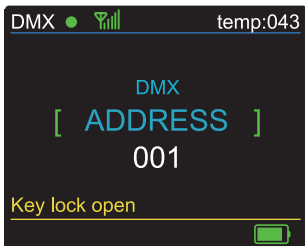
APP Connection
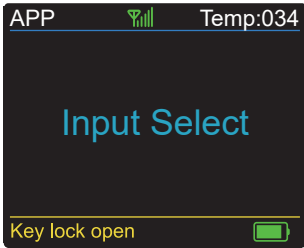
APP 📶 Temp:034	
Input Select Key lock open 🔋	Navigate to the 'Input Select' menu and press ENTER.
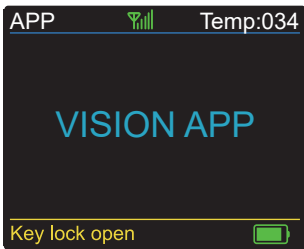
APP 📶 Temp:034	
VISION APP Key lock open 🔋	Press ENTER with 'Vision App' selected.
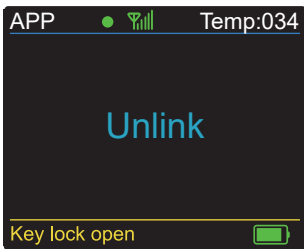
APP ● 📶 Temp:034	
Unlink Key lock open 🔋	Press ENTER on 'Unlink' menu, and press ENTER again.

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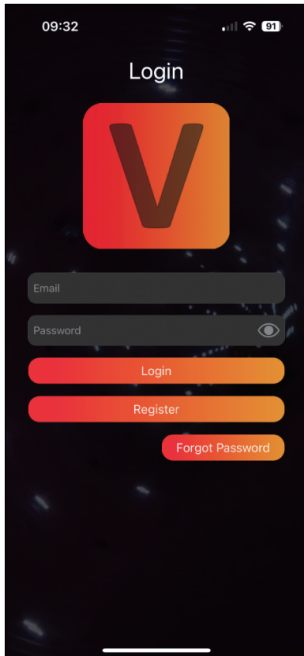
Once you have downloaded the Vision App via the QR codes provided, open the app.

• 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.

The application will take some time to prepare. Ensure that there is an active internet connection, otherwise the app will not launch. This is due to the app requiring library information. Once the app has processed click 'Next' to proceed.
Please then:
• Grant the app permission to your device's Bluetooth by clicking 'Request'.
• A popup will open; click 'Ok'.
• Click 'Start'.
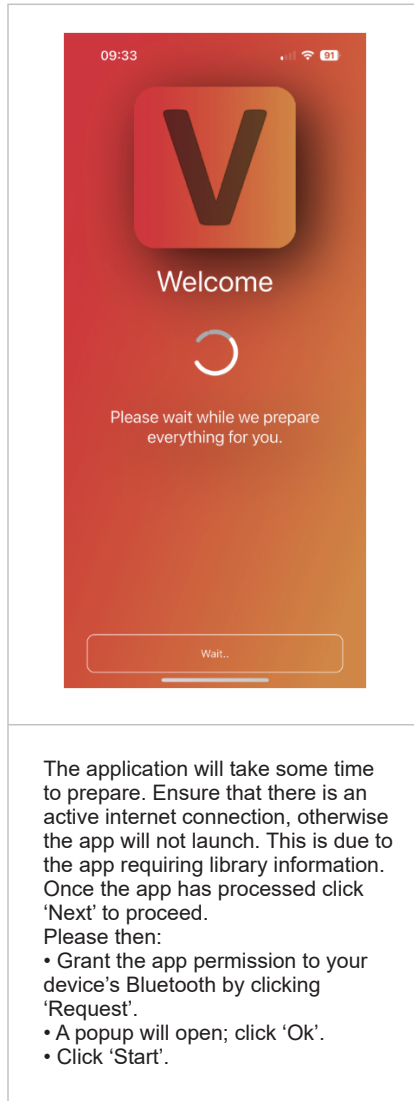
Mesh Networking
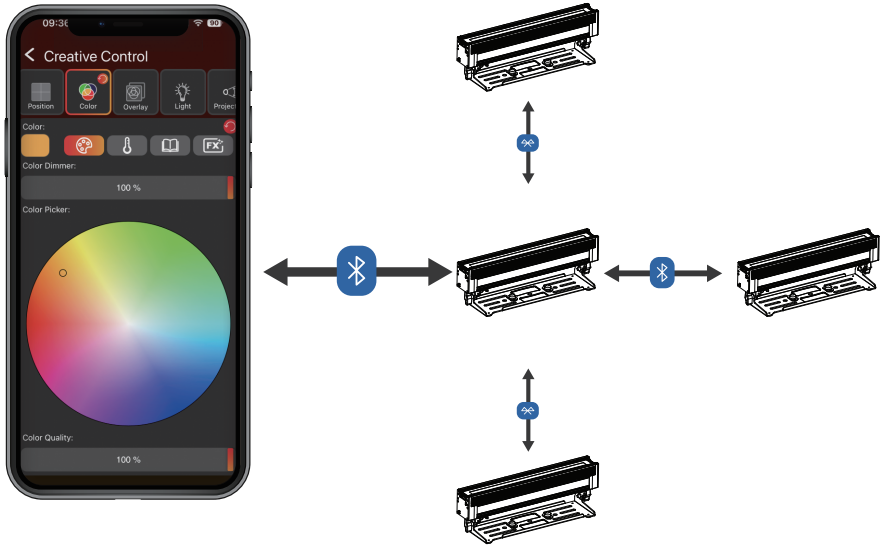
EASY INTERACTION WITH YOUR FIXTURE:
NFC support included

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

Features

OPTICS
- Light Source: 27x3W RED + 27x3W GREEN + 27x3W BLUE
- Beam Angle: 60x10°
- DMX Channel: 2, 3, 4, 7 & 10 CH

ELECTRICAL
- Power consumption: 108W
- Voltage: AC 110 - 240V, 50/60Hz
- Input voltage:DC 18V / 5A

BATTERY
- Battery: Lithium Batteries
- Charge Time: 4 Hours
- Working Time: 2-19H or over boost mode for customised setting
- 70% after 300 times charging recycle

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

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

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

PHYSICAL
- Material: Aluminum body
- TFT Display with four buttons
- Dimensions: 515 x 117 x 170mm
- Weight: 5kg
- IP Rating: IP65

Menu Structure

MENU
- Input Select
  - VISION APP
    - State
    - Network Name
    - Signal Quality
    - UUID
    - Unlink
      - Confirm
  - DMX Mode
    - DMX Address
      - 001
      - 512
    - Channel Mode
      - 02
      - 03
      - 04
      - 07
      - 10
    - DMX State
      - DMX Hold
      - Blackout
- Manual mode
  - Dimmer — 0-255
  - Red — 0-255
  - Green — 0-255
  - Blue — 0-255
  - Color — 1-50
  - CTO
    - 2500K
    - 3000K
    - 3500K
    - 4000K
    - 4500K
    - 5000K
    - 6000K
    - 7000K
    - 8000K
    - 9000K
    - 10000K
  - Strobe — 0-20
  - Dimmer — 0-255
- Auto Mode
  - auto — 1-15
  - speed — 1-31
- Wireless
  - Receiver — ON/OFF
  - Release — Confirm

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```
                              ┌─────────────┐      ┌──────────────┐
                              │ Key Lock    │──────│ OFF/15S      │
                              └─────────────┘      └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ LCD BLACK   │──────│ ON/30S       │
                              └─────────────┘      └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ Max Temp    │──────│ 30-70°C      │
                              └─────────────┘      └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ Dimmer all  │──────│ 0-255        │
                              └─────────────┘      └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ LED POWER   │──────│ OVER BOOST   │
                              │             │      ├──────────────┤
                              └─────────────┘      │ 2-19H        │
                                                   └──────────────┘
                                                   ┌──────────────┐
                                                   │ 600 Hz       │
                                                   ├──────────────┤
                                                   │ 1200 Hz      │
                                                   ├──────────────┤
                              ┌─────────────┐      │ 2400 Hz      │
                              │ Rate        │──────┼──────────────┤
                              └─────────────┘      │ 4800 Hz      │
                                                   ├──────────────┤
                                                   │ 9600 Hz      │
                                                   ├──────────────┤
                                                   │ 15000 Hz     │
                                                   └──────────────┘
                                                   ┌──────────────┐
                                                   │ Linear       │
                                                   ├──────────────┤
                              ┌─────────────┐      │ Square Law   │
                              │ Dimmer Curve│──────┼──────────────────────┐
                              └─────────────┘      │ Inverse Square Law   │
                                                   ├──────────────────────┘
                                                   │ S-Curve      │
                                                   └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ ID Number   │──────│ OFF          │
                              └─────────────┘      ├──────────────┤
                                                   │ 1-66         │
                                                   └──────────────┘
                                                   ┌──────────────┐
                              ┌─────────────┐      │ Red          │──┐
                              │ White Balance│─────┼──────────────┤  │  ┌───────┐
                              └─────────────┘      │ Green        │──┼──│ 0-255 │
                                                   ├──────────────┤  │  └───────┘
                                                   │ Blue         │──┘
                                                   └──────────────┘
                                                   ┌──────────────┐
                                                   │ Normal       │
                              ┌─────────────┐      ├──────────────┤
                              │ Power State │──────│ Off          │
                              └─────────────┘      ├──────────────┤
                                                   │ Shut down    │
                                                   ├──────────────┤
                                                   │ Standby      │
                                                   └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ AC Failure  │──────│ ON/OFF       │
                              └─────────────┘      └──────────────┘
                              ┌─────────────┐      ┌──────────────┐
                              │ Factory Reset│─────│ +/-/+/-/Enter│
                              └─────────────┘      └──────────────┘

          ┌────────┐
          │ Set Up │
          └────────┘
┌───────┐
│ MENU  │
└───────┘
          ┌─────────────┐     ┌──────────────────┐
          │ Information │     │ Hardware ver 2.0 │
          └─────────────┘     ├──────────────────┤
                              │ Software ver 1.0 │
                              ├──────────────────┤      ┌──────────────┐
                              │ Working Time     │──────│ 00000h-00m   │
                              ├──────────────────┤      └──────────────┘
                              │ Current time     │──────│ 00000h-00m   │
                              ├──────────────────┤      └──────────────┘
                              │ RDM UID          │──────│ 0x010E       │
                              ├──────────────────┤      └──────────────┘
                              │ Product ID       │──────│ Battery Wash │
                              ├──────────────────┤      └──────────────┘
                              │ Serial Num       │
                              └──────────────────┘
```

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INPUT SELECT In this menu, you can use APP control function via a Bluetooth connection to your phone.
1. Press the ENTER button and use UP or DOWN buttons until "VISION APP" is displayed.
(1) Press ENTER to display "UNLINK". Press ENTER again to show "CONFIRM", then press ENTER once more to clear the connection.
(2) Press UP or DOWN buttons, 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(02,03,04,07,10).

MANUAL MODE–In this menu, you can adjust DIMMER(000-255), RGB(0-255), COLOUR(1-50), CTO(2500K-10000K) and STROBE(1-20).
1. Press the ENTER button and use UP or DOWN until "MANUAL" is displayed.
2. Press ENTER. There are 7 options to select from. Use the UP or DOWN buttons and press ENTER to select and confirm the desired option and value.
(1)DIMMER - Adjust the dimmer/intensity.
(2)RED - Manually set the red intensity.
(3)GREEN - Manually set the green intensity.
(4)BLUE - Manually set the blue intensity.
(5)COLOUR - Sets the fixture to one of the 50 pre-programmed colours.
(6)CTO - Selectable CTO from 2500K to 10000K.
(7)STROBE - Set and adjust the strobe speed.

AUTO MODE- In this menu, you can select an AUTO mode (1-15) and adjust the running speed (1-31).
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.

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.

SET UP- In this menu you can adjust the value of a function.
1. Press the ENTER button and use the UP or DOWN buttons until "SET UP" is displayed.
2. Press ENTER. There will be 12 options. Press ENTER to select an option and use UP or DOWN to change values.
(1) KEY LOCK- 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.

(2) 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.
(3) 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.
(4) DIMMER ALL - Adjusts the brightness over all colours.
(5) LED POWER- Adjust the battery runtime with OVERBOOST or from 4 to 24 hours.
(6) POWER STATE- Sets the power status. "Normal" means normal operation, "OFF" and "Shutdown" is direct shutdown, and "Standby" turns the screen and LEDs off.
(7) RATE- Set the refresh rate. Selectable rates are:
(600Hz,1200Hz,2400Hz,4800Hz,9600Hz,15000Hz).
(8) DIM CURVE - Can select a desired dimming curve(curve1-curve4).
(9) ID NUMBER- Sets the fixture with an ID number (1-66) or "OFF".
(10)   WHITE BALANCE - Adjust the brightness of each colour(RGB) from 0-255.
(11)   AC FAILURE- Tests the power supply system and ensures proper operation.
(12)   FACTORY RESET- Resets all values set to default. The password is:
UP + DOWN + UP + DOWN

INFORMATION- Provides information of the software version, hardware, RDM UID, Serial number, Product ID and the working time and current time of the fixture.
1. Press ENTER button and use UP or DOWN until "INFO" is displayed.
2. Press ENTER. Use UP or DOWN to navigate and then ENTER to view:
(1) SOFTWARE- The running Software version.
(2) HARDWARE- Displays the Hardware information.
(3) WORKING TIME- Total operating hours since manufacture.
(4) CURRENT TIME- The operation time since powering on.
Note: Only displays if greater than one hour.
(5) RDM UID- Displays the RDM UID information.
(6) Product ID- The Product ID of the fixture.
(7) Serial Number- Serial Number information.

DMX Chart

2 CHANNELS		
Channel	Value	Function
1	000 - 255	Color
2	000 - 255	CCT

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

4 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue

7 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Strobe
3	000 - 255	Red
4	000 - 255	Green
5	000 - 255	Blue
6	000 - 255	Auto
7	000 - 255	Auto Speed

10 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Strobe
3	000 - 255	Red
4	000 - 255	Green
5	000 - 255	Blue
6	000 - 255	Color
7	000 - 255	CCT
8	000 - 255	Auto
9	000 - 255	Auto Speed
10	000 - 255	Id address set

Strobe		
10	17	1Hz
18	26	2Hz
27	35	3Hz
36	44	4Hz
45	53	5Hz
54	62	6Hz
63	71	7Hz
72	80	8Hz
81	89	9Hz
90	98	10Hz
99	107	11Hz
108	116	12Hz
117	125	13Hz
126	134	14Hz
135	143	15Hz
144	152	16Hz
153	161	17Hz
162	170	18Hz
171	179	19Hz
180	189	20Hz
190	199	Strobe Close
200	249	Random Strobe(Slow to Fast)
250	255	Strobe open

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

Channel 10 (Id address set)

0--9	all Ids	170--179	Id17	223	Id34	240	Id51
10--19	Id1	180--189	Id18	224	Id35	241	Id52
20--29	Id2	190--199	Id19	225	Id36	242	Id53
30--39	Id3	200--209	Id20	226	Id37	243	Id54
40--49	Id4	210	Id21	227	Id38	244	Id55
50--59	Id5	211	Id22	228	Id39	245	Id56
60--69	Id6	212	Id23	229	Id40	246	Id57
70--79	Id7	213	Id24	230	Id41	247	Id58
80--89	Id8	214	Id25	231	Id42	248	Id59
90--99	Id9	215	Id26	232	Id43	249	Id60
100--109	Id10	216	Id27	233	Id44	250	Id61
110--119	Id11	217	Id28	234	Id45	251	Id62
120--129	Id12	218	Id29	235	Id46	252	Id63
130--139	Id13	219	Id30	236	Id47	253	Id64
140--149	Id14	220	Id31	237	Id48	254	Id65
150--159	Id15	221	Id32	238	Id49	255	Id66
160--169	Id16	222	Id33	239	Id50		

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		√	√

Connection

Master / Slave connection

Master · Slave · Example 2 · Slave · Slave · Last spot/ Last unit · line 1 / linea 1 · Termination resistor/ · TL

Wireless connection

Example 3 · DMX address: 001 · ID address: 01 · POWER · DMX OUT · DMX · DMX IN · POWER
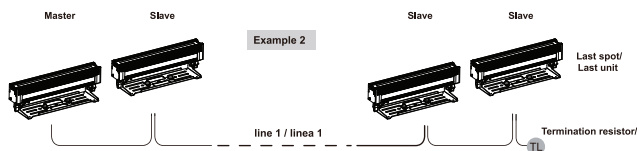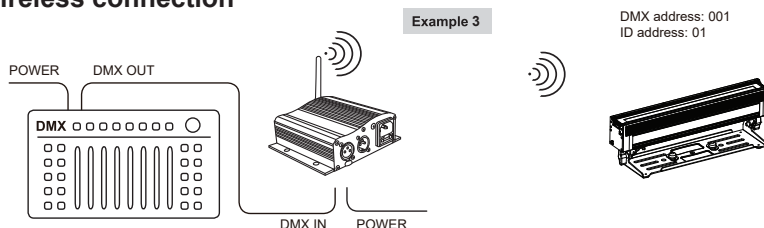
Ensure that the fixture is set to receive WDMX:

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.

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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.
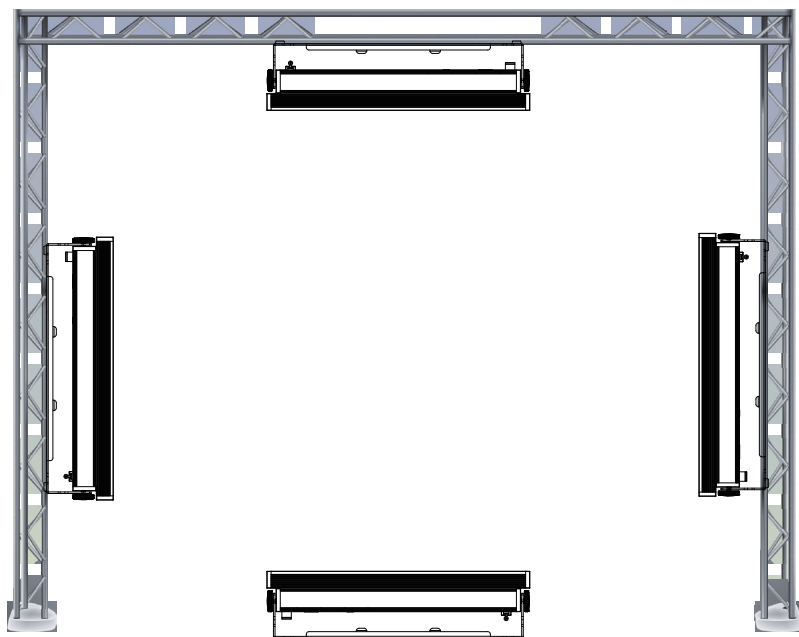
The Deco Bar is fully operational in three different mounting positions: hanging upside-down from a ceiling, set on a flat level surface or mounted on its side. Be sure to keep the fixture at least 0.5m away from any flammable materials (decorations etc.). Use an appropriately rated safety chain to prevent accidental damage or injury to persons in the event the clamp fails.