# BATSEA320PROIP

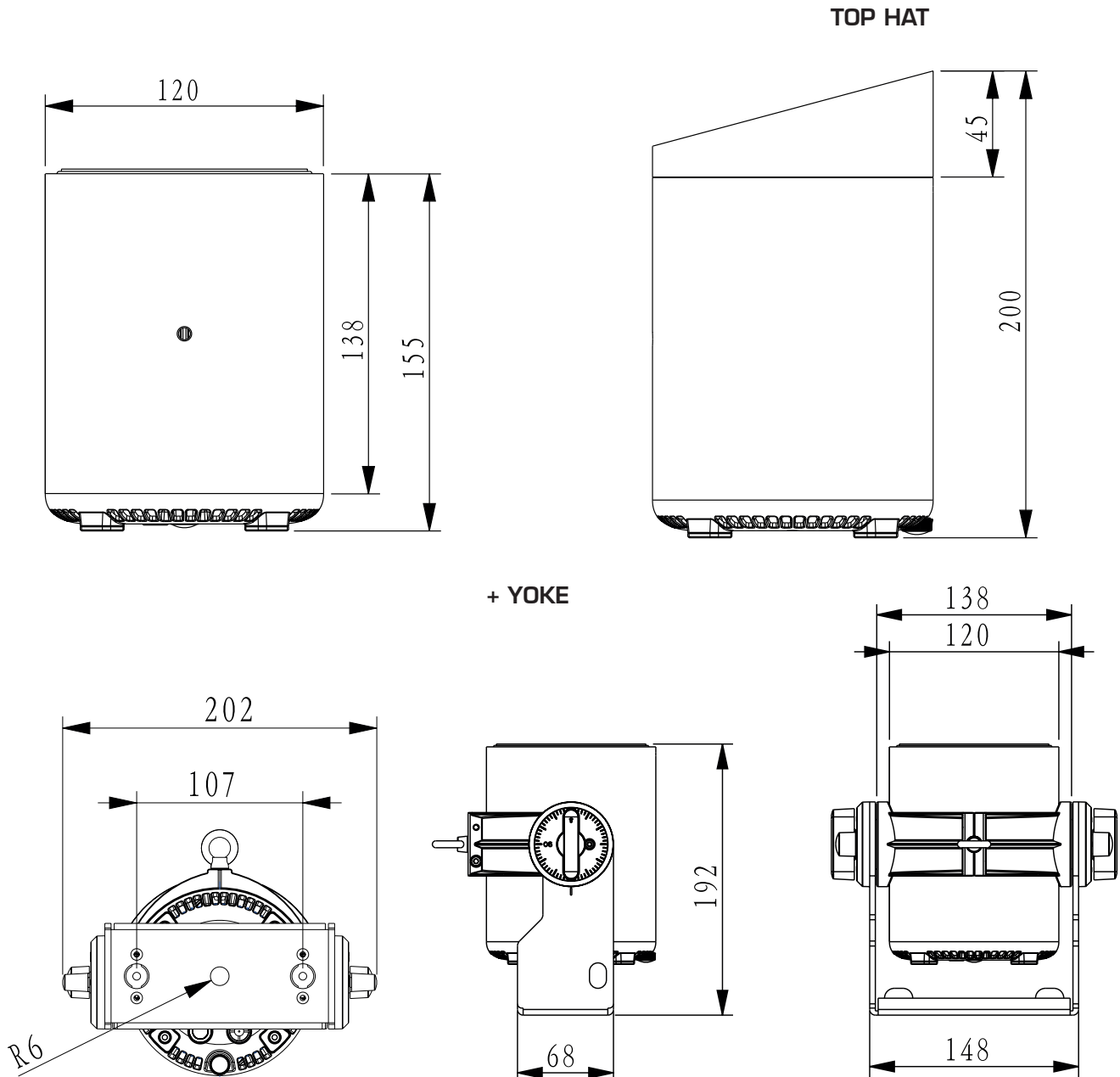3×20W LED Battery Powered WDMX IP65 Light



# User Manual

# TECHNICAL SPECIFICATION

- 3 x 20W RGB + Lime Led
- Optic 10°
- 2300 Lux @5m / 10°
- Wireless DMX
- IR Remote control
- DMX : 5/9/10ch
- Auto / Static / WDMX/IRC Master-Slave /Audio/
- Dimensions : Ø x H: 120 x 155 mm
- Weight : 2Kg
- IP65
- Wireless Solution Compatible
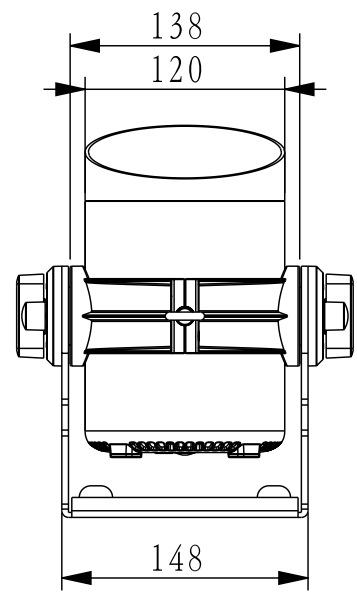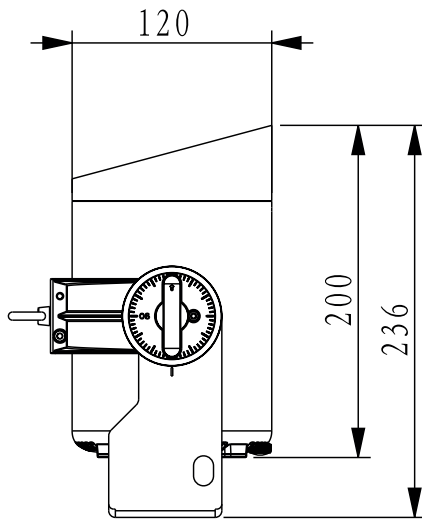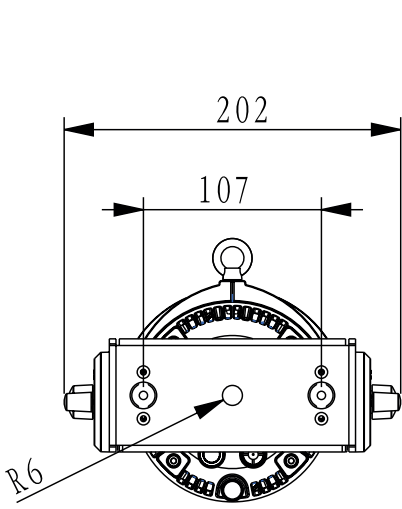- Operating time : up to 20H with one color

## INCLUDED ACCESSORIES :

**30° Filter  + 60°x10° Filter  - filter frame - Power Supply  - Remote Control**

## DIMENSIONS  :

**TOP HAT**

**+ YOKE**

# YOKE + TOP HAT

202

107

R6

120

200

236

138

120

148

# ACCESSORIES
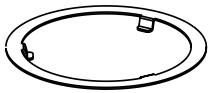
**FILTER FRAME**
*(included)*
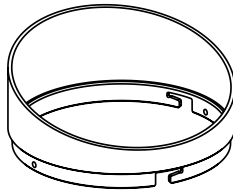
**TOP HAT**
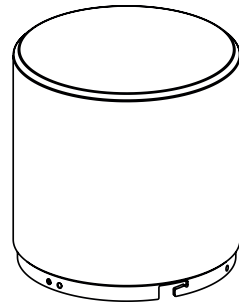
**TOP TUBE**
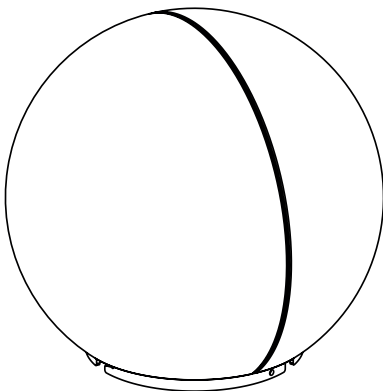
**TOP BALL**
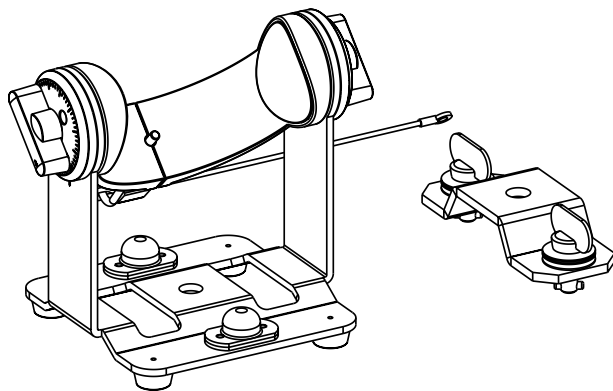
**YOKE**
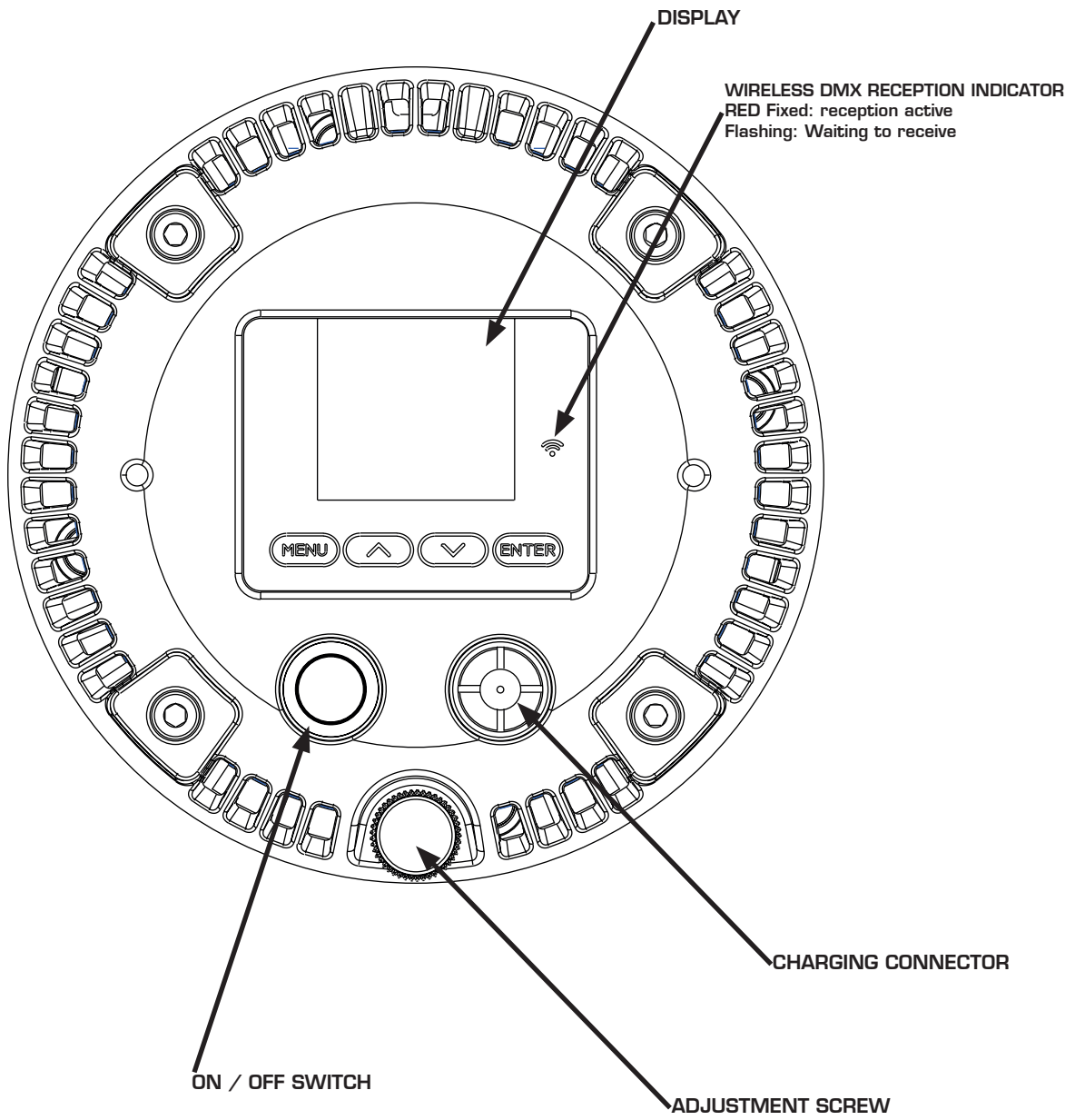
DISPLAY

WIRELESS DMX RECEPTION INDICATOR
RED Fixed: reception active
Flashing: Waiting to receive

MENU ∧ ∨ ENTER

CHARGING CONNECTOR

ON / OFF SWITCH

ADJUSTMENT SCREW

## SAFETY

### General Instruction

1. Do not expose this equipment to flammable materials
2. Keep the battery poles away from conductive objects, such as keys, jewelry, or other materials. Otherwise, the battery may be short-circuited, resulting in injury and burns.
3. Do not dispose of batteries in fire as they may explode. Damaged batteries may also explode. Connection must be made to a power supply system fitted with efficient earthing (Class I appliance ac-cording to standard EN 60598-1 ). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
4. The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
5. Never use the fixture under the following conditions:

   - in places subject to vibrations or bumps;
   - in places with an ambient temperature of over 45° C.
6. Make certain that no inflammable liquids, water or metal objects enter the fixture.
7. Do not dismantle or modify the fixture.
8. All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
9. If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

### Warnings and installation precautions

- In order to prevent the risk of an electric shock, under no circumstances remove the cover/back or open the unit in any way! No user serviceable parts are inside. Service, maintenance and
- repairs should only be done by qualified service personnel or the manufacturer.
- 
  CAUTION! Intense LED light source! Risk of eye damage. Do not look into the light source
- 
- The fixture has an integrated, non-removable battery, do not attempt to remove the battery. Do
- not open
- the headlamp. To replace the battery, take the device to an authorized service center.
- 
  Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never lift the device holding it by the projector-head, as the mechanics may be damaged
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only operate the device after having checked if the housing is firmly closed and all screws are tightly fastened.
  Only operate the device after having familiarized with its functions.
  Avoid flames and do not put close to flammable liquids or gases.
  Always allow a free air space of at least 0.8 m around the unit for ventilation.
  Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord holding it by the plug. Never pull out the plug by tugging the power cord.

# MENU STRUCTURE
### The RED values are the default values

| DMX Address | xxx | | |
|---|---|---|---|
| **Operate Mode** | Control Mode | W-DMX | |
| | | IRC | |
| | Auto Mode | OFF | |
| | | Auto01 | |
| | | Auto02 | |
| | | Auto03 | |
| | | Auto04 | |
| | | Auto05 | |
| | | Auto06 | |
| | | Auto07 | |
| | Auto SP | 000 > 100 - (50) | |
| | Master/Slave | Master | |
| | | Slave | |
| | Sound | 000 > 100% - (60) | |
| | Static control | Dimmer | 000-255 |
| | | Strobe | 000-255 |
| | | Effect Macro | 000-255 |
| | | Speed | 000-255 |
| | | Color macros | |
| | | Red | 000-255 |
| | | Green | 000-255 |
| | | Blue | 000-255 |
| | | Lime | 000-255 |
| | Dimmer Speed | Dim0 (0s) | |
| | | Dim1 (0,25s) | |
| | | Dim2 (050s) | |
| | | Dim3 (075s) | |
| | | Dim4 (1s) | |
| **Channels** | 5CH/9CH/10CH | | |
| **Setting** | Hold | On | |
| | Blackout | Off | |
| | Display reverse | On/Off | |
| | Battery: | Eco. /Med./Full | |
| | Dimmer Curve | Linear | |
| | | Exp | |
| | | Log | |
| | | S_Curv | |
| | PWM Rate | 600Hz | |
| | | 1200Hz | |
| | | 2400Hz | |
| | | 4800Hz | |
| | | 9600Hz | |
| | | 15K Hz | |
| | Black light | ON/OF | |
| | Screen time | 10-60S | |
| | Current ADJ Code  0006 | Red | XXX |
| | | Green | XXX |
| | | Blue | XXX |
| | | Lime | XXX |
| | Temp: | 60°C | |
| | W-DMX Setting | Link/Reset | |
| | Factory Reset | ON/OFF | |
| **White balance** | *Reserved for service* | | |
| | Red | 050-255 | |
| | Green | 050-255 | |
| | Blue | 050-255 | |
| | Lime | 050-255 | |
| | | 050-255 | |

| System info | SoftwareV: | 1.00 | |
|---|---|---|---|
| | DMX Level | Red | XXX |
| | | Green | XXX |
| | | Blue | XXX |
| | | Lime | XXX |
| | Temp | XX°C | |
| | Operate Time | XXXH | |
| | RDM | 00A6hXXXXX | |

## AFFICHEUR
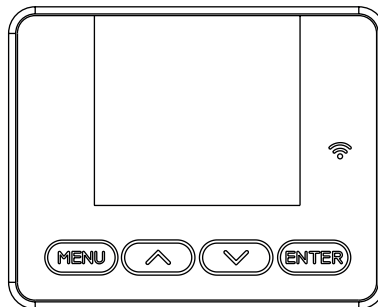


**Menu** : To exit active submenu.
**Enter** : To enter the menu or confirm the active function or value.
**∧** : To scroll up in the menu or increase the value of the active function.
**∨** : To scroll down in the menu or decrease the value of the active function.

## DMX ADDRESS MENU

### DMX ADDRESS :

- Modify the DMX address using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

## OPERATE MODE MENU

### CONTROL MODE :

- Choose the control mode between W-DMX (wireless DMX) and IRC (Infrared remote control).
  using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.
  **To select W-DMX mode, ensure that AUTO mode is OFF and MASTER/SLAVE mode is set to SLAVE**

### AUTO MODE :

- Choose one of the automatic mode options:

  - **[OFF]** : by default.
  - **[AUTO01]** à **[AUTO07]** : Automatic modes

  Using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

### AUTO SP :

- Choose the running speed of automatic programs from 0 to 100 using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

### SOUND :

Choose the audio mode and adjust the audio sensitivity from 0 to 100 using the **[^]** et **[V]** keys then validate using the **[ENTER]** key.

## MASTER / SLAVE :

- **[MASTER]** In this mode, The projector defines the W-DMX module as a transmitter and transmits the RGB Lime parameters to all the projectors connected to it. Refer to the section **[W-DMX Setting]** to pair the projectors **[MASTER]** to the **[SLAVE]** projectors
  NOTE : In **[MASTER]** mode the DMX value reception function is disabled. To use unit via wireless Dmx switch projector to **[SLAVE]** mode**.**
  Do not forget to validate any changes using the **[^]** et **[V]** keys and the **[ENTER]** key.
- **[SLAVE]** In this mode, The projector defines the W-DMX module as a receiver and receives all DMX information wirel essly.

## STATIC CONTROL :

Define to use the projector in STATIC mode. You can adjust the different parameters such as Dimmer, Strobe, Red, Green , Blue and Lime and thus create a light state or activate automatic programs or color macros (described in the different DMX
modes)
- Choose the different values from 0 to 255 using the **[^]** et **[V]** keys then validate using the **[ENTER]** key.

## DIMMER SPEED :

In order to smooth the dimmer it is possible to implement a **DIMMER SPEED** to te Projector

- Choose one of the dimmer speed values using the **[^]** et **[V]** keys then validate using the **[ENTER]** key.

  - **[DIM0] :** 0 seconds.
  - **[DIM1] : 0.25 seconds.**
  - **[DIM2] :** 0.50 seconds.
  - **[DIM3] :** 0.75 seconds.
  - **[DIM4] :** 1 seconds.

# CHANNELS MENU

## CHANNELS :

- Choose the DMX mode from 5 CH, **10 CH**. using the **[^]** et **[V]** keys then validate using the **[ENTER]** key.

# SETTINGS MENU

**HOLD :**

Choose one of these two options to set the s behavior when losing the W-DMX signal using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

- **[ON]** : keeps the last value in case of loss of the W-DMX signal
- **[OFF]** : goes into blackout mode when losing the W-DMX signal

**RDM :**

- ***Not implemented***

**DISPLAY REVERSE**

Choose one of these two options to reverse the direction of the display using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

- **[ON]** : Inverted.
- **[OFF]** : Normal.

**BATTERY**

Enter this submenu to define the battery management mode using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

- Choose **[E**co.**]**
- Choose **[Med.]**
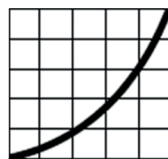- Choose **[Full]**

**DIMMER CURVE**

Enter this submenu to define the Dimmer curve using the **[∧]** et **[∨]** keys then validate using the **[ENTER]** key.

- **[Linear]** - The increase in light intensity is linear as the DMX value increases.
- **[Exp]** - Light intensity control is finer at low levels and coarser at high levels
- **[Log]** - Light intensity control is coarser at low levels and finer at high levels.
- **[S-Curve]** - Light intensity control is finer at low and high levels and coarser at medium levels.
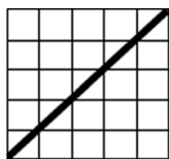
| Linear Curve | Exp Curve | Log Curve | S Curve |

**BACKLIGHT :**

- ***Not implemented***

**SCREEN TIME**

Enter this submenu to define the duration before the display turns off (between 10 seconds and 60 seconds),à l'aide des touches **[∧]** et **[∨]** puis valider à l'aide de la touche **[ENTER]**.

**CURRENT ADJ**

- **Reserved for service.**

**TEMP**

**Reserved for service.**

- **W-DMX SETTINGS**

Enter this submenu to configure Wireless DMX signal reception, using the **[^]** et **[V]** keys then validate using the **[ENTER]** key.

- **[LINK]** Enter this submenu to pair the projector with the Wireless DMX transmitter.
Switch the transmitter to pairing mode then activate the **[LINK]** mode on the projector by validating
using the **[ENTER]** key.

   **[LINK]** also allows pairing to a master projector. Follow the same procedure as pairing to a wireless DMX

   transmitter.
- **[RESET]** This submenu allows you to unpair the projector from a previous wireless connection. validate using the **[ENTER]** key.

   *Note: It is mandatory to unpair the projector before pairing again.*

## WHITE BALANCE MENU

- **Reserved for service.**

## SYSTEM INFO MENU

Enter this submenu to get the projector's system information:

- **[Software V]** To view the projector firmware version.
- **[DMX Level]** To display DMX values for Red, Green, Blue and Lime channels.
- **[Temp]** To display the projector temperature in Celsius.
- **[RDM]** Not applicable

# DMX MAP

## 5 CHANNEL MODE

| CH1 | DIMMER | 000-255 |
|-----|--------|---------|
| CH2 | RED | 000-255 |
| CH3 | GREEN | 000-255 |
| CH4 | BLUE | 000-255 |
| CH5 | LIME | 000-255 |

## 9 CHANNEL MODE

| CH1 | DIMMER | 000-255 | DIMMER FROM 0% TO 100% |
|-----|--------|---------|------------------------|
| CH2 | STROBE | 000-005 | NO STROBE |
| | | 006-063 | STROBE FROM SLOW TO FAST |
| | | 064-191 | STROBE LIGHTNING FROM SLOW TO FAST |
| | | 192-255 | RANDOM STROBE FROM SLOW TO FAST |
| CH3 | EFFECT MACROS | 000-005 | No EFFECT |
| | | 006-041 | AUTO 01 |
| | | 042-077 | AUTO 02 |
| | | 078-112 | AUTO 03 |
| | | 114-147 | AUTO 04 |
| | | 148-182 | AUTO 05 |
| | | 183-217 | AUTO 06 |
| | | 218-255 | AUDIO 01 |
| CH4 | EFFECT MACROS SPEED | 000-255 | FROM SLOW TO FAST |
| CH5 | COLOR MACRO | 000-007 | EMPTY |
| | | 008-015 | Macro color 1 |
| | | 016-023 | Macro color 2 |
| | | 024-031 | Macro color 3 |
| | | 032-039 | Macro color 4 |
| | | 040-047 | Macro color 5 |
| | | 048-055 | Macro color 6 |
| | | 056-063 | Macro color 7 |
| | | 064-071 | Macro color 8 |
| | | 072-079 | Macro color 9 |
| | | 080-087 | Macro color 10 |
| | | 088-095 | Macro color 11 |
| | | 096-103 | Macro color 12 |
| | | 104-111 | Macro color 13 |
| | | 112–119 | Macro color 14 |
| | | 120-127 | Macro color 15 |
| | | 128-135 | White 2700K |
| | | 136-143 | White 3200K |
| | | 144-151 | White 3600K |
| | | 152-159 | White 4000K |

| CH5 | COLOR MACRO (CONTINUE) | 160-167 | White 4500K |
| | | 168-175 | White 5000K |
| | | 176-183 | White 5600K |
| | | 184-191 | White 6000K |
| | | 192-197 | White 6500K |
| | | 198-205 | White 7000K |
| | | 206-213 | White 7500K |
| | | 214-221 | White 8000K |
| | | 222-229 | White 8500K |
| | | 230-243 | White 9000K |
| | | 244-255 | White 10000K |
| CH6 | RED | 000-255 | INTENSITY FROM 0% TO 100% |
| CH7 | GREEN | 000-255 | INTENSITY FROM 0% TO 100% |
| CH8 | BLUE | 000-255 | INTENSITY FROM 0% TO 100% |
| CH9 | LIME | 000-255 | INTENSITY FROM 0% TO 100% |

**MODE 10 CHANNEL MODE**

| CH1 | DIMMER | 000-65535 | DIMMER FROM 0% TO 100% |
| CH2 | DIMMER FINE | | |
| CH3 | STROBE | 000-003 | NO STROBE |
| | | 004-063 | STROBE FROM SLOW TO FAST |
| | | 064-150 | STROBE LIGHTNING FROM SLOW TO FAST |
| | | 151-255 | RANDOM STROBE FROM SLOW TO FAST |
| CH4 | AUTO PROGRAMS | 000 | IDLE |
| | | 001-032 | AUTO 01 |
| | | 033-064 | AUTO 02 |
| | | 065-95 | AUTO 03 |
| | | 096-128 | AUTO 04 |
| | | 129-160 | AUTO 05 |
| | | 161-192 | AUTO 06 |
| | | 193-224 | AUDIO 01 |
| | | 225-255 | AUDIO 02 |
| CH5 | AUTO PROGRAMS SPEED | 000-255 | FROM SLOW TO FAST |
| CH6 | COLOR MACRO | 000-009 | IDLE |
| | | 010-015 | WHITE 10000 °K |
| | | 016-021 | WHITE 9000 °K |
| | | 022-027 | WHITE 8500 °K |
| | | 028-033 | WHITE 8000 °K |

| | | | | |
|---|---|---|---|---|
| CH5 | COLOR MACRO (CONTINUE) | 160-167 | White 4500K | |
| | | 168-175 | White 5000K | |
| | | 176-183 | White 5600K | |
| | | 184-191 | White 6000K | |
| | | 192-197 | White 6500K | |
| | | 198-205 | White 7000K | |
| | | 206-213 | White 7500K | |
| | | 214-221 | White 8000K | |
| | | 222-229 | White 8500K | |
| | | 230-243 | White 9000K | |
| | | 244-255 | White 10000K | |
| CH6 | RED | 000-255 | INTENSITY FROM 0% TO 100% | |
| CH7 | GREEN | 000-255 | INTENSITY FROM 0% TO 100% | |
| CH8 | BLUE | 000-255 | INTENSITY FROM 0% TO 100% | |
| CH9 | LIME | 000-255 | INTENSITY FROM 0% TO 100% | |
| | | 244-255 | White 10000K | |
| CH10 | CONTROL | 000-036 | No effect | |
| | | 037-074 | BATTERY Full (WAIT 10S+CH2=100 | |
| | | 075-111 | BATTERY MED. (WAIT 10S+CH2=100 | |
| | | 112-148 | BATTERY ECO. (WAIT 10S+CH2=100 | |
| | | 149-184 | UNLINK  (WAIT 10S+CH2=100 | |
| | | 186-222 | FACTORY RESET  (WAIT 10S+CH2=100 | |
| | | 223-255 | No function | |