# USER MANUAL

# LABRADOR

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Please read over this manual before operating the light

# Introduction

Thank you for purchasing the K-9 Labrador fixture. Please read these instructions carefully before using or operating the fixture to avoid any possible damage or accidents.

## Product introduction

The K-9 Labrador is an LED PAR 64 hard-body, Outdoor fixture. The Labrador uses high power 8W RGBW 4-in-1 LED's. Each color can be independently controlled including dimmer, strobe, gradual change and fading. The fixture also includes slave functionality and DMX addressing.

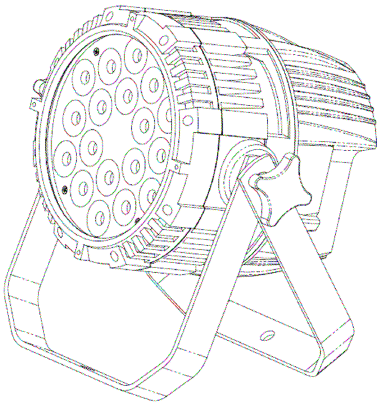
## ➢ Packing List

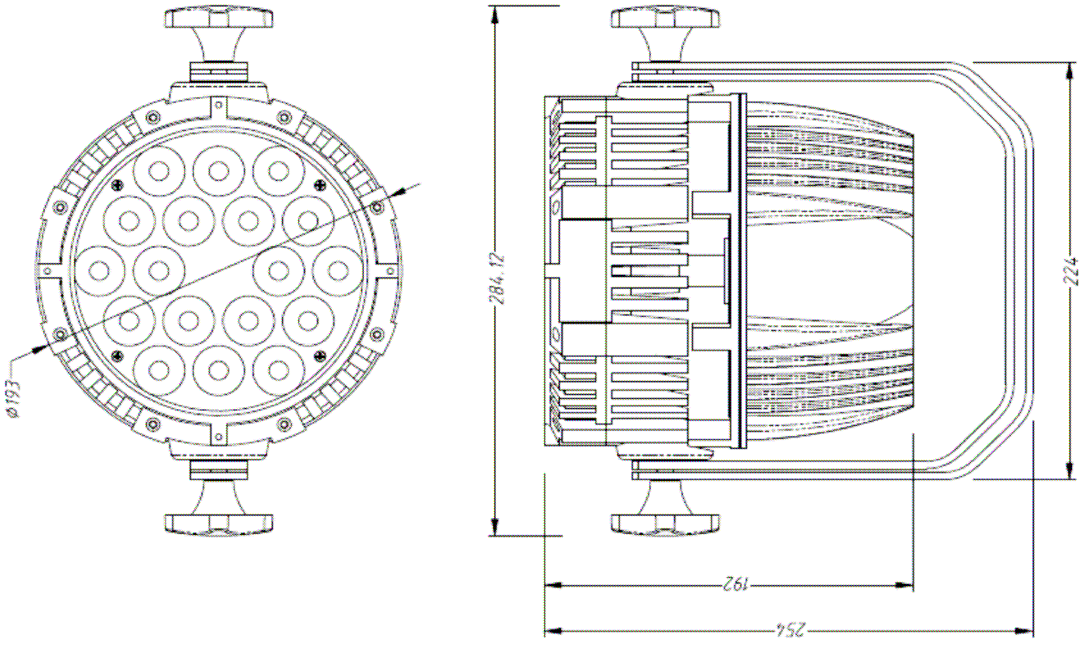
- ➢ Labrador Fixture
- ➢ 5' Data Cable
- ➢ User Manual

# Safety Instructions

- No user serviceable parts inside. Speak with a skilled professional before attempting any repair.
- Disconnect from the power source before setting up or moving.
- Avoid direct eye exposure to the fixture when it is on.
- Make sure the power supply voltage is consistent with this light, rated at 110v/60hz
- This light is designed for indoor use. Working temperature should be lower than 100°F.
- The fixtures may be mounted in any position provided there is adequate room for ventilation. Make sure there are no flammable or explosive items with 2 feet of fixture.
- Grounding is important for proper fixture operation.
- If your Labrador is in a continuous use environment with atmospheric particulates like fog, smoke or dirt, be sure to inspect and clean the heat sink with compressed air as necessary.

# Fixture Diagram





# Features

- High quality LED: low consumption, bright 8 watt LEDs, even field, long life
- Fully dimmable 0 – 100%
- Adjustable strobe rate
- DMX controlled, addressable from the LED display
- Auto run / sound activated / master slave / interconnected multi control
- Uses switching power supply to protect LEDs
- Lens degree: 25º or 45º
- DMX512 – Channel Modes – 3, 4, 5, 8, or 9
- Protection grade: IP65
- Body color: black

# DMX Control

## ➢ 3 Channel Mode

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | RGB color mixing | Hue |
| 2CH | 0-255 | W Dimming 0-100% | Color Saturation |
| 3CH | 0-255 | General dimming 0-100% | purity |

## ➢ 4 Channel Mode

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | R 0-100% | |
| 2CH | 0-255 | G 0-100% | |
| 3CH | 0-255 | B 0-100% | |
| 4CH | 0-255 | W 0-100% | |

## ➢ 5 Channel Mode

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | General dimming | |
| 2CH | 0-255 | R 0-100% | |
| 3CH | 0-255 | G 0-100% | |
| 4CH | 0-255 | B 0-100% | |
| 5CH | 0-255 | W 0-100% | |

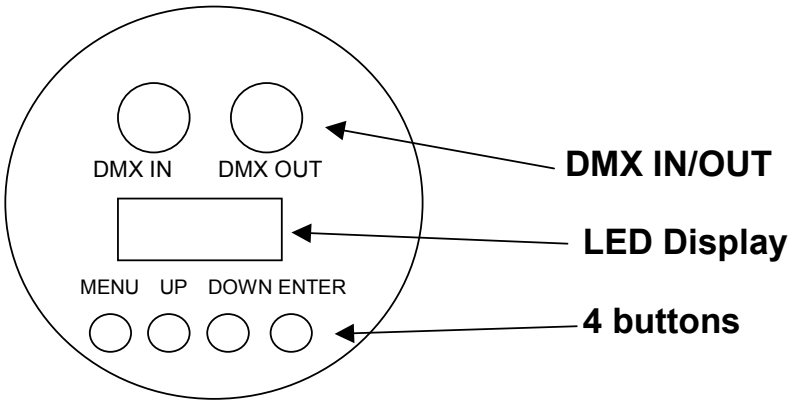
## ➢ 8 Channel Mode

| Channel | DMX Value | Control Function | Remarks | Priority |
|---|---|---|---|---|
| 1CH | 0-255 | （General dimming） | | 1 |
| 2CH | 0-255 | Red dimming 0——100% | | |
| 3CH | 0-255 | Green dimming 0—100% | | |
| 4CH | 0-255 | Blue dimming 0—100% | | |
| 5CH | 0-255 | White 0——100% | | |
| 6CH | 0-14 | Dimming | When 7CH>31，this function is invalid. | 2 |
| | 15-255 | Strobe Speed | | |
| 7CH | 0-31 | Invalid | | 3 |
| | 32-63 | From dark to bright | Must use CH1,2,3,4,5, otherwise no light. Speed adjustment from 8CH | |
| | 64-95 | From bright to dark | | |
| | 96-127 | From dark—bright—dark | | |
| | 128-159 | RGB Gradient | | |
| | 160-191 | dark—bright—dark auto run | | |
| | 192-223 | 4 colors jumping change | | |
| | 224-255 | Multi-colors jumping change | | |
| 8CH | 0-255 | Speed Adjustment （7CH） | | |

## ➢ 9 Channel Mode

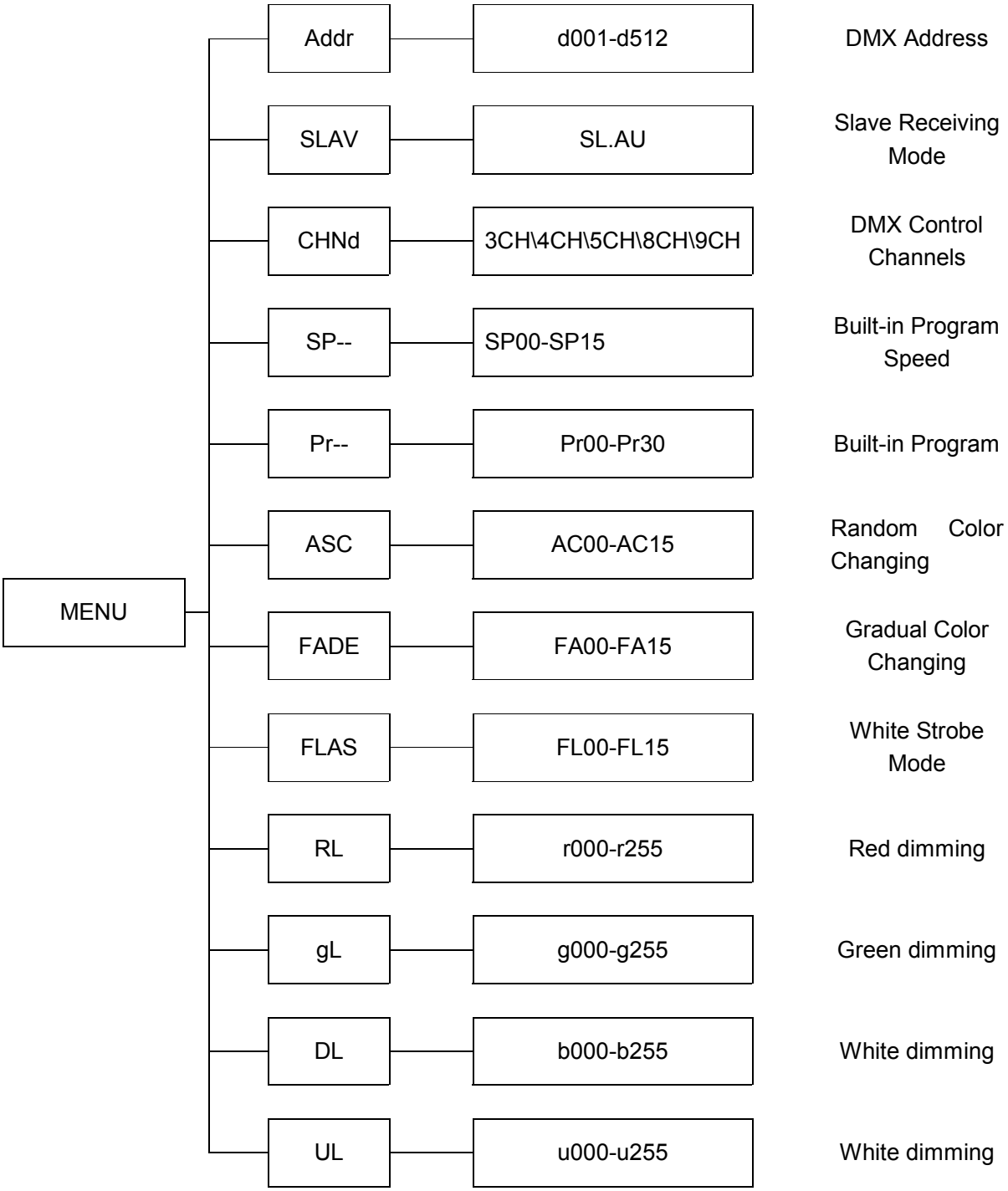
| Channel | DMX Value | Control Function | Remarks | Priority |
|---|---|---|---|---|
| 1CH | 0-255 | （General dimming） | | 1 |
| 2CH | 0-255 | Red dimming 0——100% | | |
| 3CH | 0-255 | Green dimming 0—100% | | |
| 4CH | 0-255 | Blue dimming 0—100% | | |
| 5CH | 0-255 | White 0——100% | | |
| 6CH | 0-14 | Dimming | When 7CH>31，this function is invalid. | 2 |
| | 15-255 | Strobe Speed | | |
| 7CH | 0-31 | Invalid | | 3 |
| | 32-63 | From dark to bright | Must use CH1,2,3,4,5, otherwise no light. Speed adjustment from 8CH | |
| | 64-95 | From bright to dark | | |
| | 96-127 | From dark—bright—dark | | |
| | 128-159 | RGB Gradient | | |
| | 160-191 | dark—bright—dark auto run | | |
| | 192-223 | 4 colors jumping change | | |
| | 224-255 | Multi-colors jumping change | | |
| 8CH | 0-255 | Speed Adjustment （7CH） | | |
| 9CH | 0-5<br>6-55<br>56-105<br>106-155<br>156-205<br>206-255 | Set by LCD display<br>DIMMER0<br>DIMMER1<br>DIMMER2<br>DIMMER3<br>DIMMER4 | | |

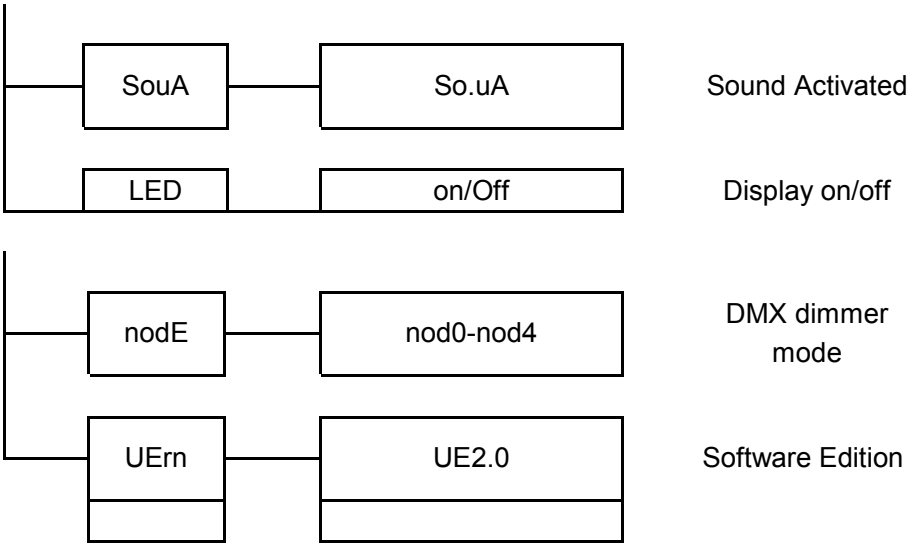
# Display




- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increments
- DOWN: menu selection or parameters decrease

# Menu


MENU
Addr
d001-d512
DMX Address
SLAV
SL.AU
Slave Receiving Mode
CHNd
3CH\4CH\5CH\8CH\9CH
DMX Control Channels
SP--
SP00-SP15
Built-in Program Speed
Pr--
Pr00-Pr30
Built-in Program
ASC
AC00-AC15
Random Color Changing
FADE
FA00-FA15
Gradual Color Changing
FLAS
FL00-FL15
White Strobe Mode
RL
r000-r255
Red dimming
gL
g000-g255
Green dimming
DL
b000-b255
White dimming
UL
u000-u255
White dimming




**1. Operating instructions:**

MENU（UP/DOWN）+ENTER+UP/DOWN）+ENTER

To Set The DMX Address:

- Press the MENU button
- Press UP/DOWN, display “Addr”
- Press ENTER, the display will flash
- Press UP/DOWN to change the address
- Press ENTER to select, DMX address will be stored automatically and the screen will stop flashing.

To Set The Control Mode:

- Press MENU
- Press UP/DOWN，display ”CHnd”
- Press ENTER, the display will flash
- Press UP/DOWN to select the control mode that you need: 3CH, 4CH, 5CH, etc.
- Press ENTER, control mode will be stored automatically and the screen will stop flashing.

To set Automatic Effects Programming（Pr- -）

- Press MENU
- Press UP / DOWN to display Pr--
- Press ENTER, the display will flash
- Press UP / DOWN to select the desired effect number.
  - Pr00 through Pr13 produce single colors to multi colors
  - Pr14 through Pr28 repeat what Pr00 through Pr13 do, adding strobe effect.
  - Pr14 through Pr30 are all effects that can be controlled by the speed setting (SP). SP00 is the fastest speed with SP15 being the slowest.
  - Pr29 provides rotation through Red, Green, Blue and White.
  - Pr30 provides rotation through various colors.
- Press ENTER, effects number will be stored automatically and the screen will stop flashing.

### ➢ Master/Slave

Multiple fixtures can be operated simultaneously without a control board by connecting each fixture with DMX control cable and using one fixture as “Master” and the others as “Slave”. The “Master” fixture will then synchronize with the “Slave” units.

To use this feature, make sure there is nothing plugged into the “DMX IN” on the fixture “Master”. Daisy-chain from the “Master” “DMX OUT” to the “Slave” fixtures. Set the DMX address on every “Slave” unit to A001. Only one light within a group can serve as “Master”.

If the length of DMX data cables extend more than 180’ or there are more than 20 fixtures being used as “Slaves”, the DMX signal will need to be boosted.

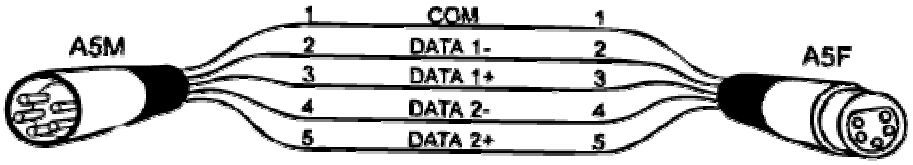
# Connecting Fixtures

### ➢ DMX Cable：

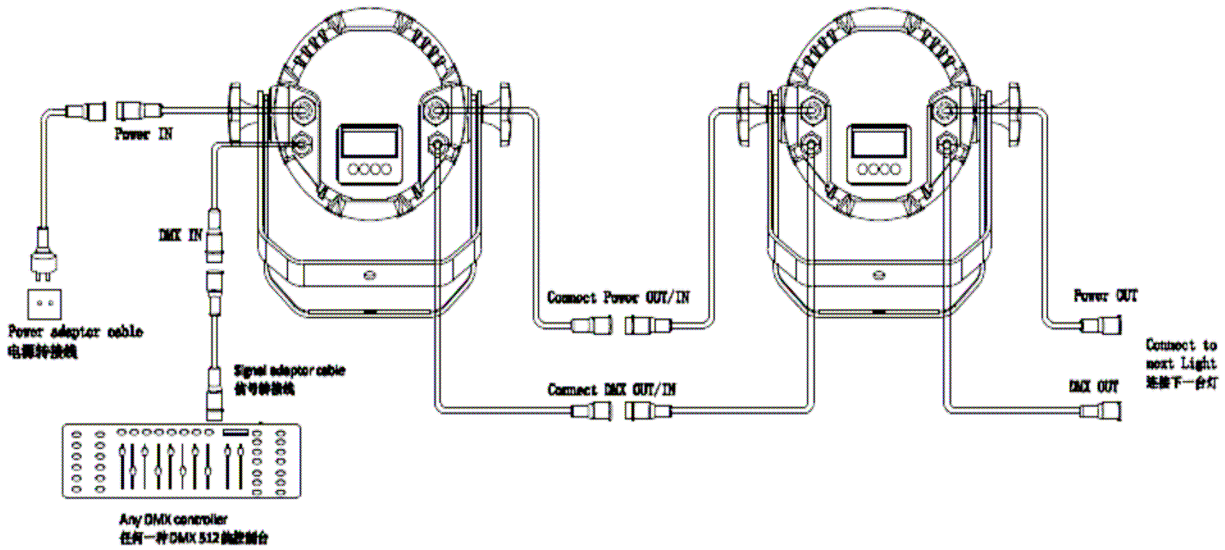
Using 5-Pin DMX data cable, connect the male end to your console, and the female end to the “DMX IN” connector on your fixture. Using additional data cable, you can connect a string of fixtures by feeding from “DMX OUT” on one fixture to “DMX IN” on each additional fixture in the chain.

DMX signal must “daisy-chain”. The use of a “Y” adapter to split the signal will cause the

fixtures to function incorrectly.




# Connecting Diagram




# Technical Specification

- Input voltage: AC 100V-264V/47-63HZ
- Output voltage:DC24V
- Consume:120W
- Lamp Type:4-in-1 LED

- Lamp Spec: High Power 8W（18PCS）
- Constant current driver:500MA
- PWM Dimmer：>400HZ(16666 grades)
- Refresh rate:>400HZ
- Life span: 50000~100000hours
- Control Signal：DMX512, sound activated, auto run
- Control mode：stand alone/ sound activated
- Channel：3CH-4CH-5CH-8CH-9CH
- Color effect：RGBW color mixing
- Function Effect: dimmer, strobe, gradual change, sound activated
- Beam Angle: 25°,45°
- Cooling mode: Natural Convection
- Anti-electricity intension：1.5KV
- Insulation Resistance:＞2 MΩ
- Size:284*193*254mm
- Net Weight: 11.3 lbs

# Optional Accessories

| Item | Part # |
|---|---|
| 5 Pin Male to 3 Pin Female Data Adapter | WIR 5PM3PF |
| C-Clamp | ACC CC |
| Safety Cable | HRD SAFE |
| 5 Pin Data Cables (10') | WIR 5010 |