

# LED Stage Bar1251 RGBWA with dot matrix

## USER MANUAL



-----Pro20130814&Ver01-----

## Introduction

**Unpacking:** Thank you for purchasing Vello Lights. Every unit has been thoroughly tested and shipped in perfect condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for any damage and be sure all accessories necessary to operate the unit has arrived well. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without pre-notice..



Read all cautions and warnings  
prior to operation of this  
equipment

## Protection Against Fire



Fire

1. Maintain a minimum of 1 50cm distance from any type of flame
2. Replace fuse only with the specified type and rating
3. Do not install the unit to close a heat source
4. Make sure cable are properly secured away from unit movement
5. Maximum surface operating temperature 80°

## Protection Against Electrical



Electrical

1. Disconnect power before servicing
2. The unit must be earthed (electronically grounded)

## Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock

PLEASE recycle the shipping carton whenever possible.

## General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit for future reference.

## Features

- Multi-Colors
- Color Strobe
- Electronic Dimming 0-100%
- Daisy Chain Units together in DMX Mode
- Master/Slave synchronization
- LED operation menu
- DMX-512 protocol
- With Dot Matrix+Sound Control

## Safety Precautions

- Be sure that the local power outlet match that of the required voltage for your unit,
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are user serviceable parts inside.
- Never operate this unit when its rear cover is removed.
- Never plug this unit into a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- During long periods of non-use, disconnect the units main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning unit should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat –The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The unit should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. The appliance does not appear to operate normally or exhibits s marked change in performance.

**DMX Linking:** To ensure proper DMX data transmission, when using several DMX units try to use the shortest cable path possible. The order in which units are connected in a DMX line does not influence the DMX addressing. For example; a unit assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a unit is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

## Operating Instructions

Operating Modes: You can use the unit in 4 ways:

- Auto Mode-The unit will automatically chase through the different colors.
- DMX control mode – This function will allow you to control each individual units traits with a standard DMX 512 controller.
- Master-slave mode – One unit will work as the master in the one of the above three modes, other units in the chain will work in synchronization towards the master.
- Sound control - The unit will react to sound, chasing through the built-in programs.

**DMX Mode:** Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your units as spot lights.

1. This function will allow you to control each individual unit's traits with a standard DMX 512 controller.
2. The unit has 9/24/60 three DMX channels modes to operate. Please see "DMX channels/function/description/ value" for the DMX traits.
3. To run your unit in DMX mode, plug in the unit via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.

**Main Control Menu**

The control board on the fixture base is your interface to access and control all functions on the unit, Its digital display gives you a code vide of functions and options as below:

CONTROL BOARD



**Touch Buttons:** There are four buttons under the LED display below:

There are four touch buttons under the display: Menu, Up, Down, Enter. Normally, the LED will display the current DMX address code of the fixture. At this time, presses up and down to choose the functions you want.

DMX Address	Red	Green	Blue	White	Amber	Flash
1-512	000-099	000-099	000-099	000-099	000-099	000-099
Fade Scroll	Full On Effect	Pixel Effect	Built-in Modes	Sound	Dimmer Mode	Operating Mode
000-099	000-099	00-0-099	00-15	ON/OFF	NO/YES	A / P / H



DMX Address. Press **Enter** to select the start address channel. The first display will let you know what operation mode you are in. Use the **up/down** keys to select the desired start address. Press **Enter** to confirm.



Red. This function allows you to power the red LED's from 0-100%, Use the **up/down** keys to select desired intensity setting Press **Enter** to confirm the setting.



Green. This function allows you to power the green LED's from 0-100%, Use the **up/down** keys to select desired intensity setting Press **Enter** to confirm the setting



Blue. This function allows you to power the blue LED's from 0-100%, Use the **up/down** keys to select desired intensity setting Press **Enter** to confirm the setting



White. This function allows you to power the white LED's from 0-100%, Use the **up/down** keys to select desired intensity setting Press **Enter** to confirm the setting



Amber. This function allows you to power the amber LED's from 0-100%, Use the **up/down** keys to select desired intensity setting Press **Enter** to confirm the setting



Flash **.Enter** to select the desired operating mode. Use the **up/down** keys to select desired flash speed setting( Fast to Slow) from 000-099. Press **Enter** to confirm.



Fade Scroll. Press **Enter** to select the desired operating mode. Use the **up/down** keys to select desired fade speed setting( Fast to Slow).Press **Enter** to confirm.



Full On Effect. Press **Enter** to select the desired operating mode. Use the **up/down** keys to select desired color change speed setting( Fast to Slow) Press **Enter** to confirm.



Pixel Effect , Press **Enter** to select the desired operating mode. Use the **up/down** keys to select, you'll see fixed pixel effect (Fast to Slow) from 00-99, Press **Enter** to confirm.



Built-in Mode. , Press **Enter** to select the desired operating mode. Use the **up/down** keys to select, you'll see effect we premade(Fast to Slow). Press **Enter** to confirm.



Sound. This function allows you to activate sound control function from 00-99, Use the **up/down** keys to select desired setting Press **Enter** to confirm the setting



DMX Mode, Press **Enter** to select the desired operating mode. Use the **up/down** keys to select. Press **Enter** to confirm **Mode A**( 9 Channels) / **Mode P**( 24 Channels)/ **Mode H** (60 Channels).



Dimmer Mode,. This function allows you to select dimmer mode, Use the **up/down** keys to select desired setting Press **Enter** to confirm the setting

## DMX Profile

### LED Stage Bar1251 RGBWA with dot matrix Mode A ( 9 Channel)

DMX Channel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	Strobe	Strobe Fast to Slow	0-255
3	Built-in programs	Built-in effect	0-255
4	Speed	Speed control	0-255
5	LED Color	Red LED intensity	0-255
6	LED Color	Green LED intensity	0-255
7	LED Color	Blue LED intensity	0-255
8	LED Color	White LED intensity	0-255
9	LED Color	Amber LED intensity	0-255

### LED Stage Bar1251 RGBWA with dot matrix Mode P (24 Channel)

DMX Channel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	Strobe	Strobe Fast to Slow	0-255
3	Built-in programs	Built-in effect	0-255

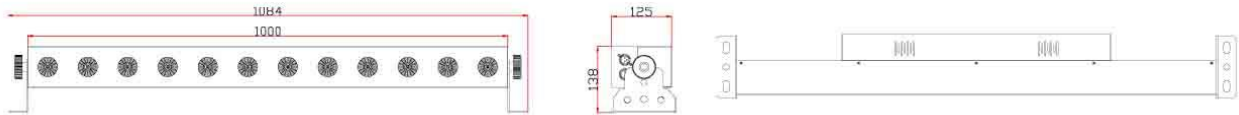
4	Speed	Speed control	0-255
5	LED Color	Red LED intensity (zone 1)	0-255
6	LED Color	Green LED intensity (zone 1)	0-255
7	LED Color	Blue LED intensity (zone 1)	0-255
8	LED Color	White LED intensity (zone 1)	0-255
9	LED Color	Amber LED intensity (zone 1)	0-255
10	LED Color	Red LED intensity (zone 2)	0-255
11	LED Color	Green LED intensity (zone 2)	0-255
12	LED Color	Blue LED intensity (zone 2)	0-255
13	LED Color	White LED intensity(zone 2)	0-255
14	LED Color	Amber LED intensity (zone 2)	0-255
15	LED Color	Red LED intensity (zone 3)	0-255
16	LED Color	Green LED intensity (zone 3)	0-255
17	LED Color	Blue LED intensity (zone 3)	0-255
18	LED Color	White LED intensity (zone 3)	0-255
19	LED Color	Amber LED intensity (zone 3)	0-255
20	LED Color	Red LED intensity (zone 4)	0-255
21	LED Color	Green LED intensity (zone 4)	0-255
22	LED Color	Blue LED intensity (zone 4)	0-255
23	LED Color	White LED intensity (zone 4)	0-255
24	LED Color	Amber LED intensity (zone 4)	0-255

**LED Stage Bar1251 RGBWA with dot matrix Mode H (60 Channel)**

DMX Channel	Function	Description	Value
1	LED Color	Red LED intensity(LED 1)	0-255
2	LED Color	Green LED intensity(LED 1)	0-255
3	LED Color	Blue LED intensity(LED 1)	0-255
4	LED Color	White LED intensity(LED 1)	0-255
5	LED Color	Amber LED intensity(LED 1)	0-255
6	LED Color	Red LED intensity(LED 2)	0-255
7	LED Color	Green LED intensity(LED 2)	0-255
8	LED Color	Blue LED intensity(LED 2)	0-255
9	LED Color	White LED intensity(LED 2)	0-255
10	LED Color	Amber LED intensity(LED 2)	0-255

Channel 11-Channel 55 are LED3-11 pixel control as LED 1 and 12 listed			
56	LED Color	Red LED intensity(LED 12)	0-255
57	LED Color	Green LED intensity(LED 12)	0-255
58	LED Color	Blue LED intensity(LED 12)	0-255
59	LED Color	White LED intensity(LED 12)	0-255
60	LED Color	Amber LED intensity(LED 12)	0-255

**Drawing Size:**



**Cleaning**

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

**Unit not responding to DMX:**

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on Some other DMX devices pin 5 may be “hot”). Also, check that all cables are connected to the right connectors; It does matter which way the inputs and outputs are connected.

**Specifications**

Model: **LED Stage Bar1251 RGBWA with dot matrix**

Working Position: Any safe working position

Voltage: 90-250V / 50~60Hz

Power: 300W

**LED Lamp : Tianxin high power LEDs;**

**5in1(RGBWA) 25W\*12pcs**

DMX Channel: 9/24/60 channel mode

Waterproof rate: IP20

RGBWA color mixing and dot matrix function , Every color can be controlled alone

Product size : 1084\*125\*138mm

Gross Weight: 11 Kgs

Warranty: **1 Year**

**Note: All information is subject to change without prior notice.**