



# **GRAVITRON-V1**

## **Multi-Axis Moving Head Light**

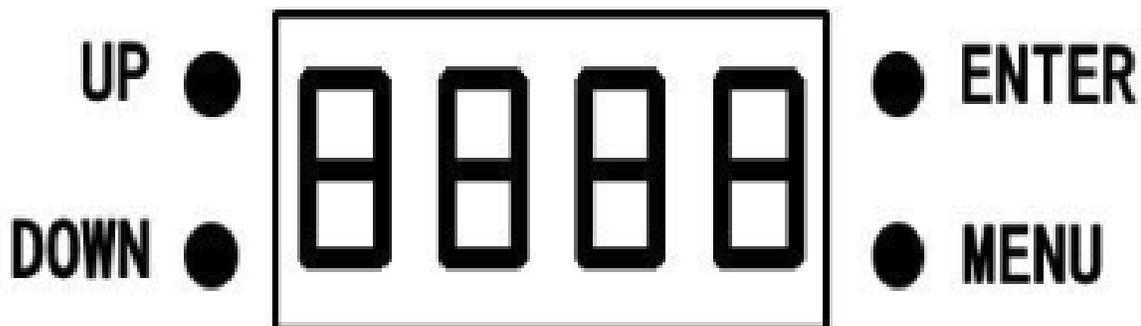
Multi-Effect DMX Stage Lighting

### **USER MANUAL**

# 1. Technical Specifications

<b>Operating Voltage</b>	AC 100-240V, 50/60Hz
<b>Power Consumption</b>	Max 150W
<b>LED Array</b>	8×10W RGBW 4-in-1 LEDs
<b>Golden Strobe</b>	8×5W golden strobe LEDs
<b>Red Laser</b>	2×100mW
<b>Green Laser</b>	2×50mW
<b>Control Protocol</b>	DMX512 (20 channels)
<b>Operating Modes</b>	DMX, Master/Slave, Auto, Sound-Active
<b>DMX Channels</b>	20 channels
<b>Dimming</b>	0-100% electronic dimming
<b>Strobe Rate</b>	20Hz
<b>Pan Range (X-axis)</b>	540° rotation
<b>Tilt Range (Y-axis)</b>	360° continuous rotation
<b>Head Rotation</b>	3 independently rotating axes with 360° infinite rotation
<b>DMX Resolution</b>	8/16 bit
<b>Product Dimensions</b>	250 × 170 × 370mm
<b>Weight</b>	4.75kg

## 2. Control Panel & Display



### 2.1 Button Functions

Button	Function
<b>MENU</b>	Navigate through main menu options
<b>UP</b>	Increase values or scroll up through options
<b>DOWN</b>	Decrease values or scroll down through options
<b>ENTER</b>	Confirm selection and save settings

### 3. Display Menu Instructions

No.	Display	Function	Description
1	<b>Addr</b>	Set DMX start address (001-512)	Use UP/DOWN to modify address code for DMX
2	<b>S hou</b>	Select operating mode (DMX, ATO1, ATO2, SOUD)	Choose from: DMX, Auto1, Auto2, Sound Control
3	<b>Chnd</b>	Display current working channel	Shows the channel mode the lamp is using (20CH)
4	<b>Pset</b>	Pan motor direction	YES = Reverse X-axis rotation / NO = Normal direction
5	<b>TIL1</b>	Z-axis 1 motor direction	YES = Reverse rotation / NO = Normal direction
6	<b>TIL2</b>	Z-axis 2 motor direction	YES = Reverse rotation / NO = Normal direction
7	<b>TIL3</b>	Z-axis 3 motor direction	YES = Reverse rotation / NO = Normal direction
8	<b>Shou</b>	Stop mode behavior	BO = Instant blackout when stopping / SLOW = Gradual fade when stopping
9	<b>SEns</b>	Sound sensitivity (0-100)	Adjust microphone sensitivity for sound-active mode
10	<b>LEd</b>	Display brightness	ON = Always on / OFF = Auto-dim after 10s
11	<b>disp</b>	Display orientation	OFF = Normal / ON = Inverted
12	<b>VEr</b>	Software version	Displays current firmware version (e.g., V104)
13	<b>rSEt</b>	Factory reset	Select 'Yes' to reset all settings

## 4. DMX Channel Configuration

This fixture uses 20 DMX channels for complete control. Set the DMX start address using the Addr menu option.

Ch	Function	Value	Description
1	<b>Pan (X-axis)</b>	0-255	Main rotation: 0-540°
2	<b>Tilt (Y-axis)</b>	0-127	0-360° positioning
		128-191	Clockwise rotation: Fast→Slow
		192-255	Counter-clockwise rotation: Slow→Fast
3	<b>Z-axis 1</b>	0-127	0-360° positioning
		128-191	Clockwise rotation: Fast→Slow
		192-255	Counter-clockwise rotation: Slow→Fast
4	<b>Z-axis 2</b>	0-127	0-360° positioning
		128-191	Clockwise rotation: Fast→Slow
		192-255	Counter-clockwise rotation: Slow→Fast
5	<b>Pan Speed</b>	0-255	Pan motor speed: Fast→Slow
6	<b>Master Dimmer</b>	0-255	Overall brightness: 0-100%
7	<b>Strobe</b>	0-10	No function
		11-255	Strobe speed: Slow→Fast
8	<b>Red</b>	0-255	Red LED intensity: 0-100%
9	<b>Green</b>	0-255	Green LED intensity: 0-100%
10	<b>Blue</b>	0-255	Blue LED intensity: 0-100%

Ch	Function	Value	Description
11	White	0-255	White LED intensity: 0-100%
12	Golden Strobe	0-255	Golden strobe LED intensity: 0-100%
13	Red Laser 1	0-255	Red laser 1 intensity: 0-100%
14	Green Laser 1	0-255	Green laser 1 intensity: 0-100%
15	Red Laser 2	0-255	Red laser 2 intensity: 0-100%
16	Green Laser 2	0-255	Green laser 2 intensity: 0-100%
17	LED Macro	0-6	No function
		7-132	Effect 1: Speed from slow to fast
		133-255	Effect 2: Speed from slow to fast
18	Motor Macro	0-6	No function
		7-132	Fast motor movement
		133-255	Slow motor movement
19	Macro Control	0-49	Channels 1-18 active (manual control)
		50-99	Auto Program 1
		100-149	Auto Program 2
		150-255	Sound-active mode
20	Reset	0-240	No function
		241-255	Reset (hold for 5 seconds)

## 5. Safety & Operational Notes

### 5.1 Important Notices

- Before installing and using the equipment, carefully read each item of the manual.
- This manual is only to provide relevant information, and all contents in the manual may be changed at any time without notice.
- Unless the instructions have stated otherwise, do not modify the equipment.

### 5.2 Safety Tips

- **Power and Ventilation:** Before installation and maintenance, confirm that power to the fixture is disconnected. Ensure that the environment around the fixture is well ventilated.
- **Indoor Use:** This lamp is designed for indoor use. Do not use this product for extended periods in humid environments.
- **Moisture Protection:** When using and maintaining, avoid the lamp from contacting water. For outdoor use, take adequate waterproof measures.
- **Qualified Personnel:** Installation, operation and maintenance personnel must be familiar with the performance of the fixture before starting operation. Most damage is caused by unfamiliarity with fixture performance.
- **Voltage:** Use AC 100-240V voltage.
- **Eye Safety:** Do not look directly at the fixture for extended periods to avoid eye discomfort.
- **Cleaning:** Wipe the fixture frequently with clean, soft cloths.

### 5.3 Operational Notes

**Master/Slave Mode:** DMX signal lines must be disconnected when operating in Master/Slave mode

**Settings:**

- Settings are saved automatically after pressing ENTER
- After restart, fixture automatically enters last saved function