

# Rocket Laser

## AL04 Series



*Your Best Mate  
in Laser Lighting!*

## Introduction

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Thank you for selecting Rocket Laser. Rocket Laser is a one-channel DMX laser can be controlled via a standard DMX controller. It is a lightweight, mini intelligent fixture and is an ideal product for discos, small clubs, exhibitions and any place that need visionary effect. For safe operation, read this manual before powering or installing the fixture, follow the safety precautions listed below, and observe all warnings printed in this manual and on the fixture.

## Safety Precautions

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- Never look directly into laser beam.
- Do not spill liquids in to or on to your unit. If this ever happens, disconnect the main power immediately. Do not connect this unit to any dimmer pack.
- Always disconnect from main power before making any type of connection.
- Be sure to locate this unit in a place with adequate ventilation at least 15 cm from a wall, and mount this unit in safe and stable matter.
- To prevent fire or shock hazard, do not expose this unit to a high temperature or high humidity area. Please unplug unit when not in use.
- Always keep combustible materials away from the fixture.
- This unit is intended for indoor use. Use of this unit outdoors voids all warranties.
- Always refer service to a qualified technician.
- Occasional breaks are necessary to prevent breakdowns.
- **Caution - Use of controls or adjustments or performance of procedures other than as specified herein may result in hazardous radiation exposure!**

## Set Up

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### Unpacking

Rocket Laser comes with: 1 hanging bracket, 2 clamp levers, 2 washers, 1 power cord and 1 user guide. Unpack carefully and be sure that no damage has occurred during shipping. If there is anything missing or appear to be damaged please contact your dealer.

### Power Connection

Be sure the source voltage in your area matches the required voltage for your Rocket Laser before plugging your unit in. Incorrect voltage selection will detrimentally affect the operation of this product.

### DMX Cable Connection

Rocket Laser is a one channel DMX fixture that can be operated with universal DMX controller. This unit and DMX controller require a standard 3-pin XLR connector for data input and data output.

### Installation/Mounting

Rocket Laser should be properly mounted by using a suitable hanging clamp and safety cable. Use in a well-ventilated area. Be sure no ventilation slots are blocked.

## Operating Modes

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### 1. Stand-Alone Operation (Auto, Sound Active, Manual Mode)

Auto mode

- The unit runs built-in program to change the laser effects automatically. Set DIP switch pin 11 to ON, other pins to OFF to run Auto mode

Sound Active mode

- This unit has built-in program that will react to sound and music under Sound Active mode. Set all DIP switch pins to OFF to run Sound Active mode. Please adjust "Sensitivity Adjustment Knob" to fine-tune the optimum level of sound reaction.

Manual mode

- Users can manual control this unit to change laser beams by themselves under manual control operation. Set DIP switch pin 10 to ON, other pins to OFF, then control pins 1, 2, 3, 4 to change laser beams

### 2. Master-Slave Operation (Auto, Sound Active, Manual Mode)

This mode allows user to link up to 32 units to run the Master-Slave operation. In the Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit. Daisy chain your units via the standard XLR microphone cables in the following configuration: ' Out' from the first unit to ' In' on the second, ' Out' from the second to ' In' on the third and so on.

Auto mode

- To set the master: Set DIP switch pin 12 and 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

Sound Active mode

- To set the master: Set DIP switch pin 12 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

Manual mode

- To set the master: Set DIP switch pin 12 and 10 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF
- Control pins 1, 2, 3, 4 of Master unit to change laser beams

### 3. DMX Operation

DMX operation gives the user freedom to create his/her own programs tailored to their own individual needs. To run this unit in DMX mode, connect the unit to any standard DMX controller via XLR connectors. Please consult DMX controller manual to determine address.

## Operating Modes (Cont.)

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DMX Signal Levels

DMX512 LEVEL RANGE 0-255	Laser Beam Status			
	NO.1 Apertures	NO.2 Apertures	NO.3 Apertures	NO.4 Apertures
240-255	ON	ON	ON	ON
224-239	/	ON	ON	ON
208-223	ON	/	ON	ON
192-207	/	/	ON	ON
176-191	ON	ON	/	ON
160-175	/	ON	/	ON
144-159	ON	/	/	ON
128-143	/	/	/	ON
112-127	ON	ON	ON	/
96-111	/	ON	ON	/
80-95	ON	/	ON	/
64-79	/	/	ON	/
48-63	ON	ON	/	/
32-47	/	ON	/	/
16-31	ON	/	/	/
0-15	/	/	/	/

Function Selection Chart

DIP SWITCHES CHART											FUNCTION	
1	2	3	4	5	6	7	8	9	10	11		12
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		SOUND MODE
L1	L2	L3	L4						ON	OFF		MANUAL MODE
									OFF	ON		AUTO MODE
SET SOUND/MANUAL/AUTO MODE											ON	DMX MASTER
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	DMX SLAVE
SET ADDRESS									OFF	OFF	OFF	DMX MODE

Not Used

### Trouble Shooting

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If there is no light from the unit, please check the main power supply and fuse.  
 If unit does not respond to DMX, please check the DMX cables are connected properly and are wired correctly.  
 If unit does not response to the music please adjust the sound-active sensitivity level by Sensitivity Adjustment Knob.  
 If problems cannot be solved please contact your dealer for service

### Cleaning

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Use a soft cloth and normal glass cleaner to clean the outside casing.  
 Cleaning frequency depends on the environment in which the fixture operates.  
 Be sure to dry all parts before plugging the unit back in.

### Fuse Replacement

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Always disconnect from main power supply before attempting to replace the fuse  
 Remove the old fuse from the holder and replace with the exact same type fuse. Replacement with anything other than the specified part may damage your unit.

## Safety Label Position

Top of the unit

Bottom of the unit

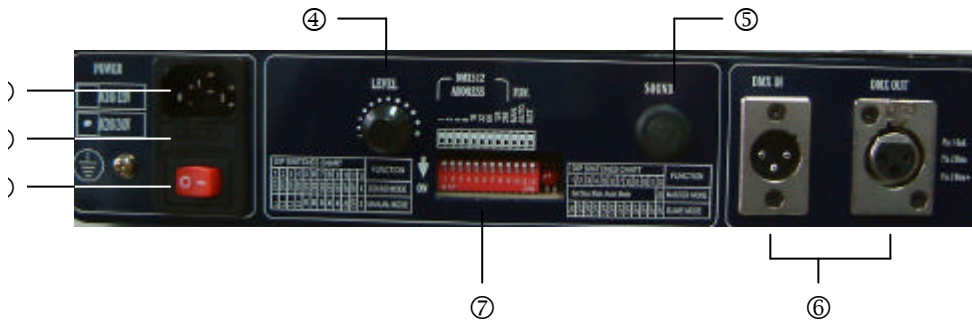


Warning logo & laser aperture label



Certification, identification and warning label

## Control Panel Introduction



- ① Power Cord Connection
- ② Fuse
- ③ Power Switch
- ④ Sensitivity Adjustment Knob
- ⑤ Microphone
- ⑥ DMX In & Out
- ⑦ DIP Switch Pin



4 Laser Apertures

## Specifications

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Model NO.	5R4	5G4	5R3-5G1	5R2-5G2
Laser power	4 × 4.9mW Red	4 × 4.9mW Green	1 ×4.9mW Green +3 ×4.9mW Red	2 ×4.9mW Green +2 ×4.9mW Red
Classification	IIIR			
Power	AC 100V~120V or 220V~240V 50/60HZ			
Weight	2.5Kgs			
Dimension(mm)	L117 x W365 x H180			
Housing	Iron			
Beam Divergence	< 1.5 mrad			
Operating Temperature	18~25°C			

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