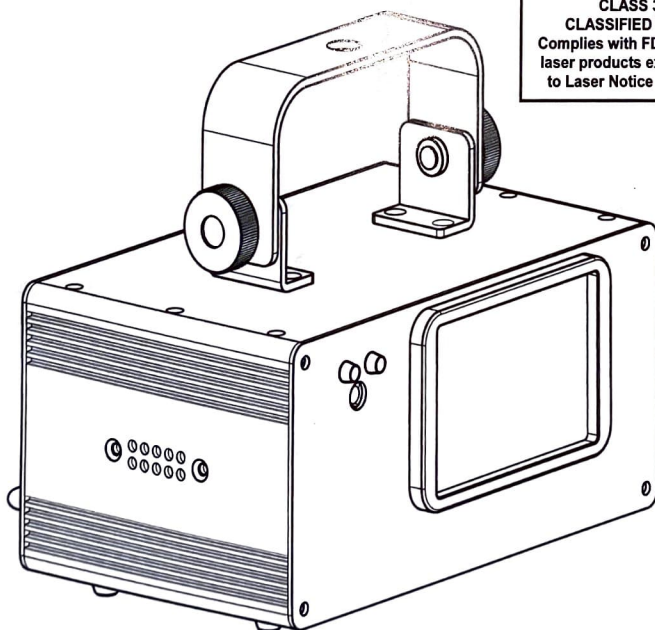




User Manual



LASER LIGHT
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
CLASSIFIED PER EN/IEC 60825-1:2007
Complies with FDA performance standards for
laser products except for deviations pursuant
to Laser Notice No. 50, dated June 24, 2007.



CHAUVET

4. OPERATION

This product is not designed for continual use. Make sure there are regular breaks during operation to maximize the life of your laser. Always disconnect the Scorpion Dual V2 from power when not in use.

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. When the product is on, the LED monitor on the rear panel will show the current operating mode (standalone or DMX). The product will retain the last saved settings when powered off.

Button	Function
<MENU>	Selects an operation mode or backs out of the current menu option
<UP>	Scrolls up the list of options or selects a higher value
<DOWN>	Scrolls down the list of options or selects a lower value
<ENT>	Activates a menu option or a selected value

Menu Map

Mode	Programming Steps	Description
DMX Mode	001-503	Selects DMX starting address
Slave Mode	SLA	Slave mode
Remote Control	rEN	Wireless remote control
Test Mode	tSt	Test pattern
Sound-Active/Auto Modes	Sou	Sound-Active mode
	Aut	Auto mode
Sensitivity	S 0-9	Sound sensitivity control

Configuration (DMX)

Set the product in DMX mode to control with a DMX controller.

1. Connect the product to a suitable power outlet.
2. Turn the product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Starting Address

When selecting a DMX starting address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Scorpion Dual V2 uses up to 10 DMX channels in DMX mode, which defines the highest configurable address to 503.

If you are not familiar with the DMX protocol, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:

1. Press <MENU> repeatedly until 001-503 blinks on the display.
2. Use <UP> or <DOWN> to select the starting address.
3. Press <ENTER>.

Test Mode

Activate the laser test pattern as follows.

1. Press <MENU> repeatedly until tSt blinks on the display.
2. Press <ENTER>.

DMX Channel Modes, Assignments, and Values

10-Channel

Channel	Function	Value	Setting
1	Control Functions	000 ⇄ 085 086 ⇄ 170 171 ⇄ 255	DMX mode (other channels activated) Auto program Sound-Active
2	Strobe	000 ⇄ 009 010 ⇄ 249 250 ⇄ 255	No function Slow to fast On
3	Pattern Selection	000 ⇄ 255	Patterns as shown in Patterns table.
4	Zoom	000 ⇄ 127 128 ⇄ 169 170 ⇄ 209 210 ⇄ 255	100%-5% Zoom in Zoom out Zoom in and out
5	Y-Axis Rolling	000 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Fixed position on y-axis (0 to 359°) Clockwise rolling, slow to fast Counter-clockwise rolling, slow to fast
6	X-Axis Rolling	000 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Fixed position on x-axis (0 to 359°) Clockwise rolling, slow to fast Counter-clockwise rolling, slow to fast
7	Z-Axis Rolling	000 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Fixed position on z-axis (0 to 359°) Clockwise rolling, slow to fast Counter-clockwise rolling, slow to fast
8	Pan	000 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Fixed position (128 horizontal points) Clockwise movement, slow to fast Counter-clockwise movement, slow to fast
9	Tilt	000 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Fixed position (128 vertical points) Clockwise movement, slow to fast Counter-clockwise movement, slow to fast
10	Scan Speed	000 ⇄ 127 128 ⇄ 169 170 ⇄ 209 210 ⇄ 255	Fast to slow (manual) Slow to fast (automatic) Fast to slow (automatic) Fast to slow, then slow to fast (automatic repeat)



- For manual operation of lasers using DMX control, be sure Channel 1 is set to DMX mode (000-085).
- For automatic operation of lasers using DMX control, be sure Channel 1 is set to Auto program (086-170).
- Channel 2 must be set to 010-255 for Channel 1 to be operational.

Patterns

DMX	PATTERNS	DMX	PATTERNS	DMX	PATTERNS	DMX	PATTERNS
000-007		064-071		128-135		190-197	
008-015		072-079		136-143		198-205	
016-023		080-087		144-151		206-213	
024-031		088-095		152-159		214-221	
032-039		096-103		160-167		222-229	
040-047		104-111		168-175		230-237	
048-055		112-119		176-183		238-245	
056-063		120-127		182-189		246-255	

Configuration (Standalone)

- Set the product in one of the standalone modes to control without a DMX controller.
1. Connect the product to a suitable power outlet.
 2. Turn the product on.



Never connect a product that is operating in any standalone mode (Auto or Sound-Active) to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Sound-Active Mode

To enable the Sound-Active program, do the following:

1. Press <MENU> repeatedly until Sou (Sound-Active) or Aut (Auto) blinks on the display.
2. Use <UP> or <DOWN> to select Sou.
3. Press <ENTER>.

Sound Sensitivity

To set the sound sensitivity, follow the instructions below:

1. Press <MENU> repeatedly until S 0-9 blinks on the display.
2. Use <UP> or <DOWN> to select the desired sound sensitivity.
3. Press <ENTER>.



The product will only respond to low frequencies of music (bass and drums). The laser will blackout when in Sound-Active mode after 3 seconds of silence or noise below the sensitivity setting.

Auto Mode

To enable the auto mode, follow the instructions below:

1. Press <MENU> repeatedly until Sou (Sound-Active) or Aut (Auto) blinks on the display.
2. Use <UP> or <DOWN> to select Aut.
3. Press <ENTER>.

Master/Slave Mode

The Master/Slave mode allows a single Scorpion Dual V2 product (the master) to control the actions of one or more Scorpion Dual V2 products (the slaves) without the need of a DMX controller. The master will be set to operate in either Auto mode or Sound-Active mode, while the slaves will be set to operate in Slave mode. Once set and connected, the slaves will operate in unison with the master.

Configure the products as indicated below.

Slaves:

1. Press <MODE> repeatedly until SLA shows on the display.
2. Press <ENTER>.
3. Connect the DMX input of the first slave to the DMX output of the master.
4. Connect the DMX input of the subsequent slaves to the DMX output of the previous slave.
5. Finish setting and connecting all the slaves.

Master unit:

1. Set the master to operate in either Auto mode or Sound-Active mode.
2. Make the master the first unit in the DMX daisy chain.



- Configure all the slave units before connecting the master unit to the DMX daisy chain.
- Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master unit.
- Do not connect more than 31 slave units to the master unit.