

Set Up

- 1. Unpack your new Pyro Black Widow Laser and inventory the following: One Black Widow Laser. One power cable. One Manual.
- Mount and aim the Black Widow so the laser beams will not shine on any people.
 It is important to aim the laser above the audience or performers where they cannot be hit by a beam.

Automatic Operation

Sound Active. Set all dipswitches to the off position.

 \Rightarrow Your new laser will now cycle through the different patterns and change along with the music.

Auto. Set dipswitch 1 to on.

- ⇒ Your new laser will now cycle through the different patterns at it's own rate <u>Animation</u>. Set dipswitches 1 and 2 to on.
 - ⇒ Your new laser will now play the pre-programmed animations.

Dip Switch Chart

X=off 1=on

1	2	3	4	5	6	7	8	9	10			
×	×	×	×	×	×	×	×	×	×	Sound Active		
1	×	×	×	×	×	×	×	×	×	Auto		
1	1	×	×	×	×	×	×	×	×	Animation		
×	×	1	×	×	×	×	×	×	×	Slave Mode		
		(MMX	1	DMX Mode							
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PC Operation

The Black Widow is capable of being controlled with ILDA software. ILDA stands for International Laser Display Association who set standards for interfacing lasers with computers. The Black Widow is equipped with a standard DB25 interface.

Please follow the instructions that came with your software. (Software is not included.)

DMX Operation

Enable the DMX Mode by switching dipswitch 10 to on. Choose the DMX address with the remaining dipswitches. (See charts below.) Yes, there is math involved. Switch #1 to on for channel 1. Switch #2 for channel 2. Switch #1 and #2 for channel 3. Switch #3 for 4. Switches #1, #2 and #3 for channel 7. (Use the chart below 1+2+4=7)

DMX Dipswitch Values

1	2	3	4	5	6	7	8	9	10
1	2	4	8	16	32	64	128	258	*

Common DMX Channels for DMX Controllers

Fixture #	1		2	3	4	5	6	7	8	9	10	11	12
DMX ADDR	1	9	17	33	49	65	81	97	113	129	145	161	177
Pin Setting	1	1,4	1,5	1,6	1,5,6	1,7	1,5,7	1,6,7	1,5,6,7	1,8	1,5,8	1,6,8	1,5,6,8

If you want an easier way to set dipswitches go to the following link and use the dipswitch calculator. http://www.thedmxwiki.com/definitions/dip_switches/

DMX Control Chart

Channel	<u>Function</u>	Setting	Effect			
1	Control Mode	0-49	Sound active patterns			
		50-99	Automatic patterns			
		100-149	Animation			
			Manual			
2	Color Select	0	Laser off			
		1-255	Scroll through color combinations			
3	Pattern Select	0-255	55 Scroll through preset patterns			
4	Vertical Position	0-127	Manual positioning			
		128-191	Automatic motion from up to down			
		192-255	Automatic motion from down to up			
5	Horizontal Position	0-127	Manual positioning			
		128-191	Automatic motion from right to left			
		192-255	Automatic motion from left to right			
6	Vertical flip	0-255	0-255 Slow to fast			
7	Horizontal flip	0-255	Slow to fast			
8	Rotation	0-127	Manual positioning			
		128-191	Counter clockwise auto rotation			
		192-255	Clockwise auto rotation			
9	Zoom	0	No zoom			
		1-85	Auto zoom from small to big			
		86-170	Auto zoom from big to small			
		171-255	Auto zoom cycle			
10	Pattern Size	0	Normal			
		1-255	Small size pattern to large size pattern			
11	Spot to Line	0-255	Change pattern from a smooth line to a series of dots			
12	Twinkle	0-255	Change twinkle			