



Phoenix LED Profile Spot



Operation, Programming and Safety Manual

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BRINGING IMAGINATION TO LIGHT

Phoenix Series LED Profile Spot

SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS FOR SPECTRA SERIES LED LIGHTING FIXTURES.

WARNING! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS:

1. Turn off, unplug power, and allow fixture to cool before cleaning or servicing.
2. Ensure fixture is properly grounded.
3. Ensure that ventilation slots are not obstructed.
4. Do not look directly at lighted LEDs.
5. Keep away from flammable materials.
6. No user serviceable parts inside. Replace entire light engine assembly if necessary.
7. Do not touch the LEDs at any time. Use a soft lint free cloth to clean lens. Do not use solvents to clean. Use cloth dampened with water. Allow to dry completely before turning fixture on again.
8. Do not operate the unit with missing or damaged lens.
9. Do not expose unit to rain or use in damp or wet locations.
10. Allow for adequate ventilation with a minimum of 20" from the adjacent surface.
11. Be sure the cooling fans are functioning properly and no ventilation slots are blocked with debris.
12. Before installation, make sure the Voltage being used is consistent with fixture requirements.
13. Maximum units to daisy chain power is no more than 4 fixtures.

INTRODUCTION

Congratulations on purchasing one of the finest lighting instruments available today! Before using your Phoenix LED Profile Spot, be sure to read all of the instructions in this manual.

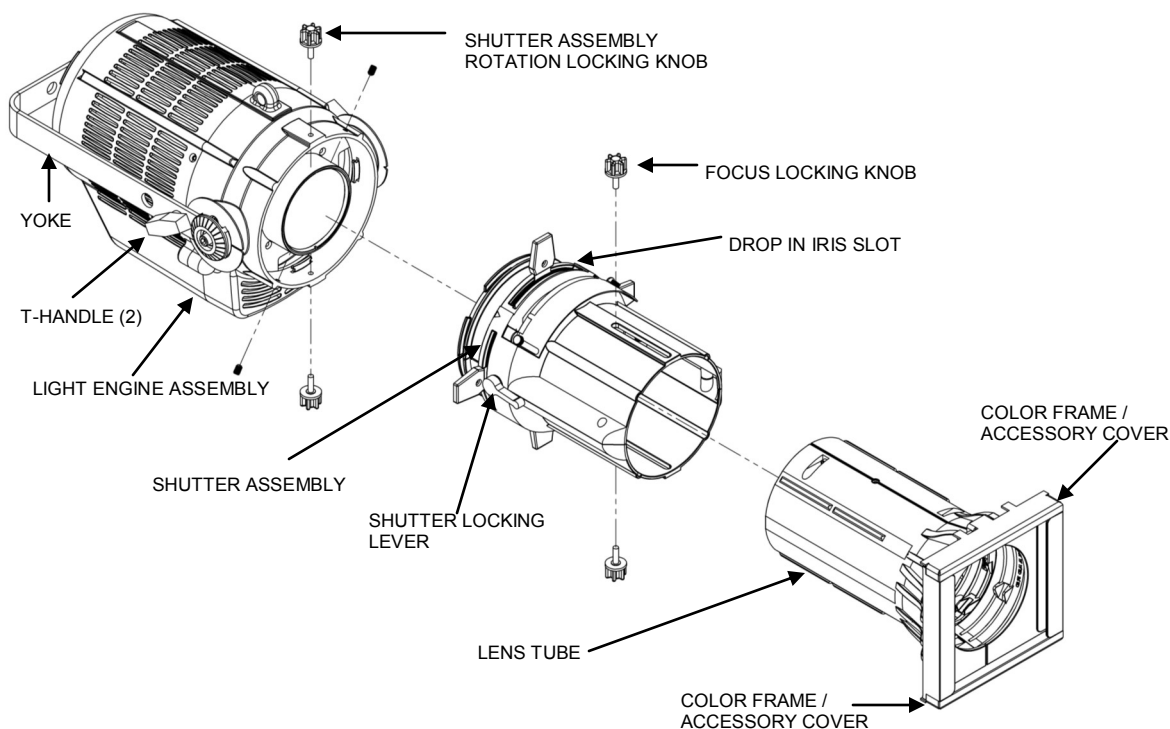
Input Voltage: 90~240V AC, 50/60Hz

Rated Power: 250W @220V

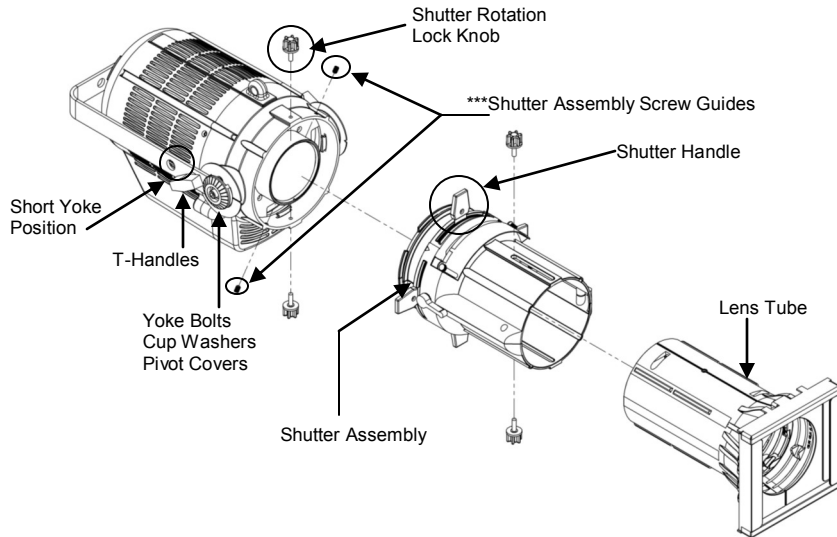
Beam Angle: 19°, 26°, 36° and 50°

Data Controls: DMX 512 and RDM control protocol

Additional Functions: Display fixture service time, LCD back light time optional, Display auto reverse function



YOKE & SHUTTER ASSEMBLY



USING SHORT YOKE POSITION

1. Remove T-Handle and its associated hardware.
2. Remove yoke bolts, cup washers and pivot covers. Note: use a 1/4" hex head wrench to remove yoke bolts.
3. Stretch yoke and snap it into short yoke position.
4. Replace pivot covers, cup washers and yoke bolts.
5. Replace T-Handle into square hole, keeping the washer between handle and yoke.

ROTATING SHUTTER ASSEMBLY

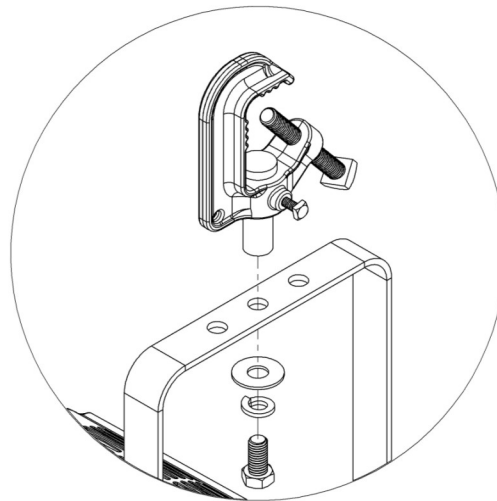
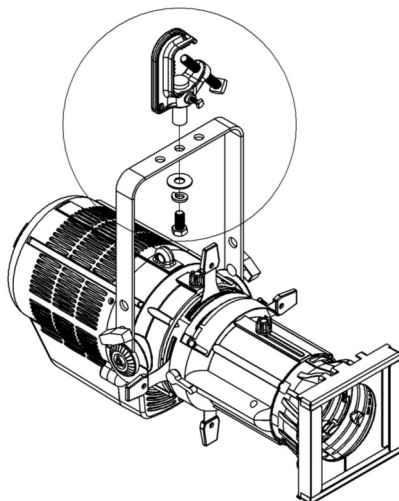
1. Loosen shutter rotation lock knob on either side of the fixture.
2. Rotate shutter assembly 360° in either direction.
3. Tighten shutter rotation lock knobs to secure shutter assembly.
4. To lock the shutters in place, rotate the Shutter Lock Lever until proper tension is applied to shutters.

ADJUSTING YOKE

1. With one hand on ring handle to hold unit, loosen T-Handle.
2. Tilt unit to desired angle. Note: Reference angles have been molded on the pivot cover to make adjustments easier and more precise.
3. Tighten T-Handle to secure fixture in place.

***SHUTTER ASSEMBLY SCREW GUIDES

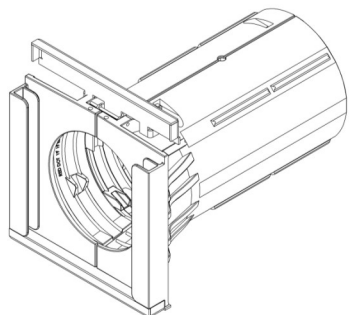
These two screws prevent the shutter assembly from coming off the light engine while rotating. Only remove these screws when taking the light shutter assembly off of the light engine. After replacing the shutter assembly, replace these two screws to avoid injuries.



INSTALLING C-CLAMP

The C-clamp is used to mount the fixture to a pipe hang position. The C-clamp attaches to the top of the yoke via the 1/2" bolt provided with the C-clamp. Be sure to keep the washer between the bolt head and the yoke.

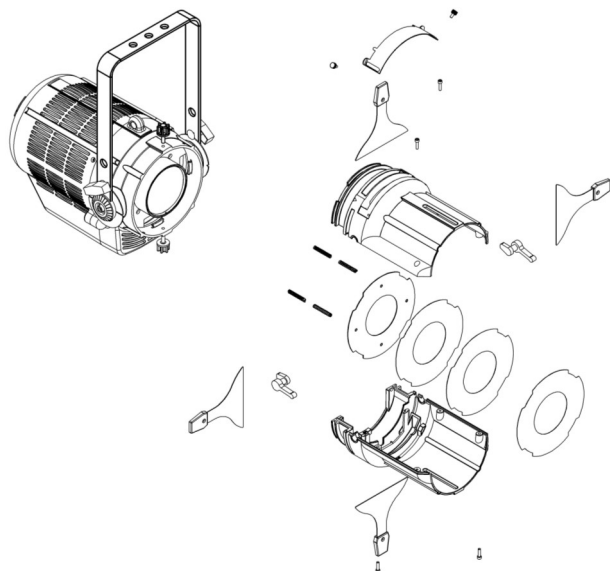
ACCESSORY INSTRUCTIONS



ACCESSORY RETAINING LATCH

This unique retaining hatch is designed for positive locking and manual return.

1. Slide cover to right side.
2. Swing cover back.
3. Insert accessory.
4. Close cover. Make sure latch locks in place.



DROP IN IRIS SLOT

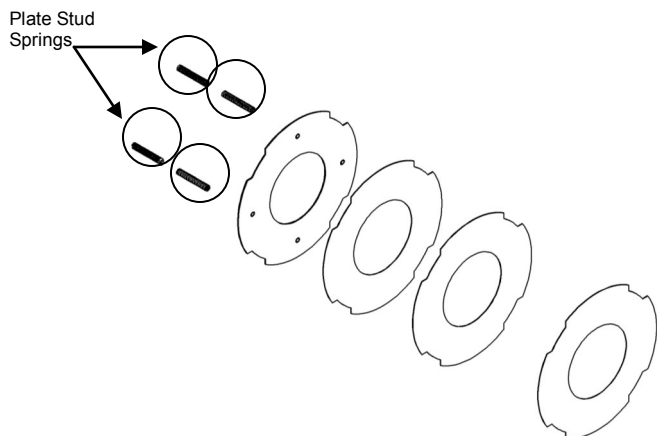
This larger slot can accept either a drop-in iris or a motorized pattern device (gobo rotator, yo-yo etc). The slot has a retractable cover to prevent light leak when not in use. When a device is used, the cover should be closed to the edge of the device placed in the slot. When a drop-in iris is used, always place it so the flat side is facing the shutters.

PATTERN PROJECTION

The pattern holder accepts standard ETC Source 4 size pattern holders. The image of the pattern can be rotated 360° in either direction. The use of the donut will sharpen the image.

SOFT FOCUS LENS ADAPTER Part #: PHX-SFLA (sold separately)

The soft focus lens adapter is a 5° luminate holographic lensing option to help diffuse the LED array for a softer focus. The matte side of the diffusion should face the light source as the shiny side should face the lens barrel. **NOTE:** Do not add metal gobos in the same pattern holder. The heat build up will melt the diffusion material.



SHUTTERS

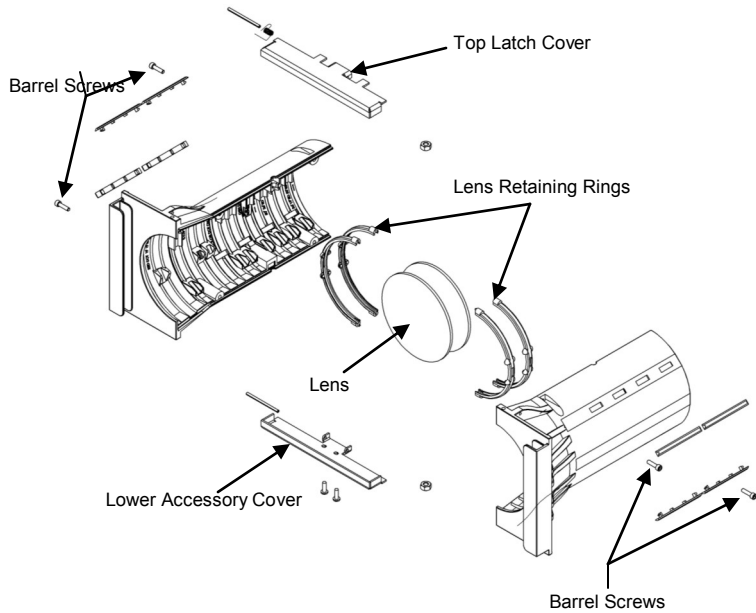
1. The shutters are not removable without disassembling the unit.
2. Care must be given to make sure each of the four shutters stay in their proper positions in between the shutter plates.

INSTALLING SHUTTER PLATES

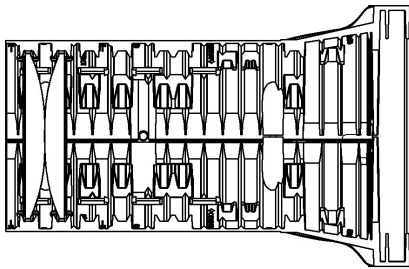
1. Pressure Plate (completely flat): Install such that the tabs are on the top and bottom and sides.
2. Iris and spring plate. Install so that the (4) studs face the back of the unit.

CLEANING / REPLACING LENSES

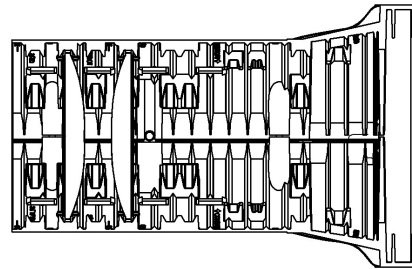
WARNING: Never use glass or window cleaner or any abrasive material to clean a lens. These types of cleaners will stain the lens surface. Abrasive materials will damage the surface of the lens.



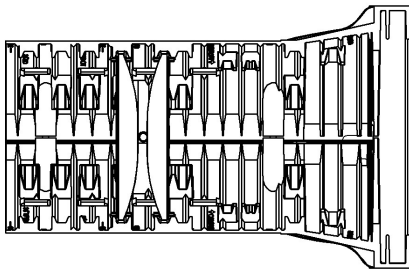
1. Remove focus lock knob, push in safety pin and slide lens barrel out.
2. Place barrel on a surface so that the two halves are oriented as the top and bottom.
3. Remove lower accessory cover with (2) screws.
4. Remove latch cover with (2) screws.
5. Remove (4) barrel screws, one on each side.
6. Carefully remove top half of the barrel.
7. Replace or clean lenses with mild soap and water, and a clean, lint-free cloth.
8. Replace top half of barrel, top latch cover, bottom cover and re-install screws.
9. Slide lens barrel back into unit and replace focus lock knobs.



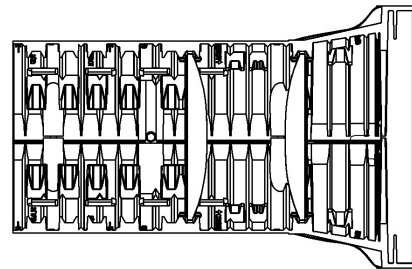
50° (4.5 X 6)



36° (6 x 9)



26° (6 x 12)



19° (6 x 16)

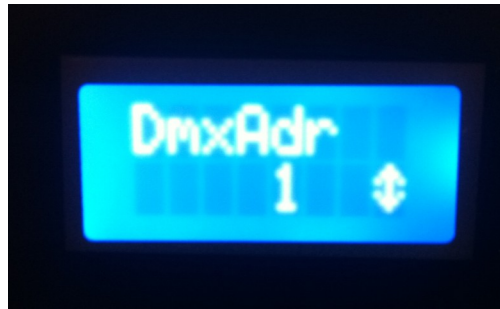
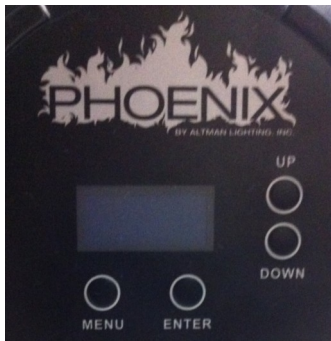
Operation Menu and Options

DMX Control

- DMX Address (1-512)
- DMX Resolution (8 Bit or 16 Bit)
- Master Channel (Off or On)
- Smoothing (Off or On)
- DMX Loss (Off, Hold Last Command, Preset)

To address your fixture follow these steps:

- 1-Power the fixture and wait for the startup to complete. The screen will turn off.
- 2-Press ENTER and you will see "DMX Control" press ENTER again.
- 3-When the screen shows "DMXAdr 1" press ENTER again. The up and down arrows should now be next to address 1. (See image 2 below)
- 4-Press the UP or DOWN buttons to scroll to your desired DMX address.
- 5-Press ENTER to confirm the address.
- 6-Press MENU to back out of the DMX address setting.



The up and down arrows must be next to the number in order to scroll to your desired DMX address.

The table below demonstrates the DMX Control Options you can choose from. By following the same steps to address your fixture you can choose any of the following options from below.

Menu Category	Control Type	Option 1	Option 2	Option 3	Factory Default
DMX Control	DMX Address	1 to 512			001
	DMX Resolution	8 Bit			8 Bit
		16 Bit			
	Master Channel	Off			Off
		On			
	Smoothing	Off			On
		On			
	DMX Loss	off			Off
		Hold Last Look			
Preset (cue 1)					

Operation Menu and Options

There is a player option in the menu where you can pre-program your fixture to play back up to 5 cues. The cues can run as short as 1 second or as long as 99 minutes. You can choose any of the colors you desire within your cues to create any look you want. You also have the option of putting a delay in between your cues. To program your cues follow the steps below.

Press ENTER to turn the screen on.

Press DOWN to get to the “player” option.

Press ENTER to capture the “player setting”.

Press DOWN to turn the player one or off. In this case we will be turning the player on.

Press MENU once to back out of “on/off” selection.

Press DOWN to go to “Edit Presets”.

Press ENTER to go to “Edit Cue 1”.

Press UP or DOWN to select cue # you would like to edit. In this case we will start with cue 1.

Press ENTER to select “Cue 1”.

Press Enter to select if you want to enable the Cue on or off. Select “enable”.

Press MENU to back up one step.

Select the channel/color you desire for your first cue. For example select red press ENTER.

Press UP and scroll to “255” for full intensity.

Press ENTER to confirm.

Press MENU to back out of red selection.

(Repeat these same steps to edit the rest of your cues.)

Spreadsheet for Menu categories for the player

Menu Category	Control Type	Option 1	Option 2	Option 3	Factory Default
PLAYER	Player On	Off			On
		On			
	Cue # 1 OR Cue #2 OR Cue #3 OR Cue#4 OR Cue # 5	Enable/Disable	Off / On	On	
		Delay	1 sec to 99 min	2.0 seconds	
		Red	0 to 255	255	
		Green	0 to 255	0	
		Blue	0 to 255	0	
		White	0 to 255	0	

Operation Menu and Options

Menu Category	Control Type	Option 1	Option 2	Option 3	Factory Default	
Settings	Factory Default	Yes	Sure? Y		No	
		No	Sure? N			
	Fan Speed	Fan Auto			AUTO	
		Fan On				
	Display	Backlight	On			On
			5 seconds			
			10 seconds			
			30 seconds			
			60 seconds			
		Screen Correction	Normal/Upright			Normal/Upright
			Flipped			
			Auto			
		Dimming Curve	Linear			Square
			Log			
Square						
Info	LED Temperature					
	Run Time/Hours					
	Fixture Serial #					
	LED Serial #					
	Software Version					

Fixture Resolution & Configuration

Fixture Type: 250W 3000K & 5600K White

8 Bit (one DMX channel per color) this is normal resolution

Channel 1 White

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1 White Coarse

Channel 2 White Fine

Master Channel is selectable as **ON** or **OFF** and provides a Master Fade channel that dims all 4 colors proportionally at the same time in order to maintain the color.

8 Bit (one DMX channel per color) this is normal resolution

Channel 1 White

Channel 2 Master

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1 White Coarse

Channel 2 White Fine

Channel 3 Master Coarse

Channel 4 Master Fine

Smoothing is selectable as ON or OFF and provides a smooth transition ramp from one level to another in a similar way to how an incandescent lamp behaves. This helps to eliminate the “steppiness” associated with LED fixtures that is caused by the instantaneous response of LEDs. Turning smoothing off allows the LEDs to react instantly for strobe-like and lightning effects.

Fixture Type: 250W RGBW

8 Bit (one DMX channel per color) this is normal resolution

Channel 1 Red

Channel 2 Green

Channel 3 Blue

Channel 4 White

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1 Red Coarse Channel 5 Blue Coarse

Channel 2 Red Fine Channel 6 Blue Fine

Channel 3 Green Coarse Channel 7 White Coarse

Master Channel is selectable as **ON** or **OFF** and provides a Master Fade channel that dims all 4 colors proportionally at the same time in order to maintain the color.

8 Bit (one DMX channel per color) this is normal resolution

Channel 1 Red Channel 4 White

Channel 2 Green Channel 5 Master

Channel 3 Blue

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1 Red Coarse Channel 6 Blue Fine

Channel 2 Red Fine Channel 7 White Coarse

Channel 3 Green Coarse Channel 8 White Fine

Channel 4 Green Fine Channel 9 Master Coarse

Channel 5 Blue Coarse Channel 10 Master Fine

Fixture Resolution & Configuration

Fixture Type: 250W RGBA

8 Bit (one DMX channel per color) this is normal resolution

Channel 1	Red
Channel 2	Green
Channel 3	Blue
Channel 4	Amber

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1	Red Coarse	Channel 5	Blue Coarse
Channel 2	Red Fine	Channel 6	Blue Fine
Channel 3	Green Coarse	Channel 7	Amber Coarse
Channel 4	Green Fine	Channel 8	Amber Fine

Master Channel is selectable as **ON** or **OFF** and provides a Master Fade channel that dims all 4 colors proportionally at the same time in order to maintain the color.

8 Bit (one DMX channel per color) this is normal resolution

Channel 1	Red	Channel 4	Amber
Channel 2	Green	Channel 5	Master
Channel 3	Blue		

16 Bit (two DMX channels per color) Coarse & Fine high resolution.

Channel 1	Red Coarse	Channel 6	Blue Fine
Channel 2	Red Fine	Channel 7	Amber Coarse
Channel 3	Green Coarse	Channel 8	Amber Fine
Channel 4	Green Fine	Channel 9	Master Coarse
Channel 5	Blue Coarse	Channel 10	Master Fine

Smoothing is selectable as ON or OFF and provides a smooth transition ramp from one level to another in a similar way to how an incandescent lamp behaves. This helps to eliminate the “steppiness” associated with LED fixtures that is caused by the instantaneous response of LEDs. Turning smoothing off allows the LEDs to react instantly for strobe-like and lightning effects.

General Maintenance

In order to insure longevity of your fixture, regular cleaning is necessary. The lens and fan must be cleaned periodically to allow proper function of the fixture. Do not use alcohol or any other solvent with chemicals to clean the lens. When cleaning your lens, use a clean soft lint free cloth with damp with water. Do not use any hard materials to wipe the lens. Maintenance and cleaning of your fixture depends on the frequency of use and the environmental conditions your fixture is kept in. Make sure the fan is kept free of lint and dust to allow proper air flow. To avoid damage to the shell of your fixture do not use alcohol or other organic solvents.

Troubleshooting

Problem	Action
Unable to start / Power	Check the power line connection between the fixture and electric source.
Data Signal Problems	Check DMX Address.
	Check Data lines and make sure all cables are in good condition.
	Check the termination points.
Fixture Power Intermittence	Check the fan and make sure there is no dust or debris is blocking the
Intensity of the beam is dim	Check the Lifetime of the LEDs, make sure the lenses are clean.
Imperfections in the beam	Make sure the lens is clean and free of cracks
Beam distortion	Make sure the lens is clean and free of cracks