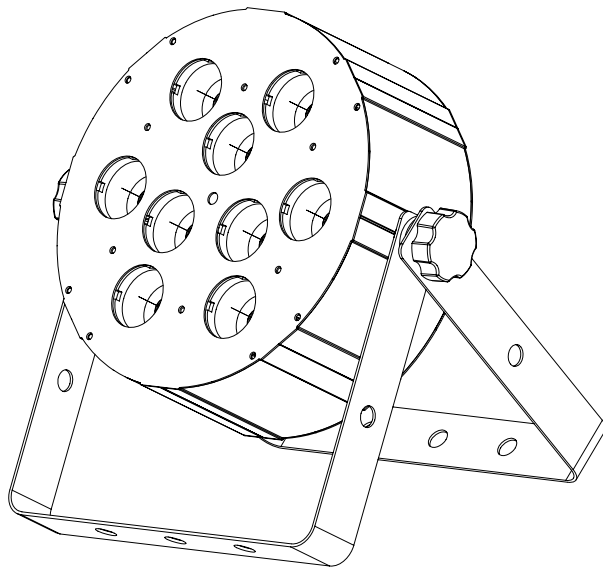




Tri Disc 9 IR



User Instructions

Tri Disc 9 IR

Introduction

Unpacking: Thank you for purchasing the Tri Disc 9 IR by Eliminator Lighting. Every Tri Disc 9 IR has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The Tri Disc 9 IR can be used in a stand alone mode or connected in a Master/Slave configuration. This wash has five operating modes: Sound Active mode, Auto Run mode, RGB mode, Static Color mode, and DMX control mode.

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact Eliminator Lighting.

PLEASE recycle the shipping carton when ever possible.

Tri Disc 9 IR

Warranty

Eliminator Lighting warranty is valid from the date of purchase. Our 1 year limited warranty covers manufacturing defects only. Serial number, place of purchase with dated valid receipt must be submitted at time of service. Eliminator Lighting warranty does not cover items or parts prone to wear and tear: motors, fuses, brushes and belts. Eliminator Lighting warranty is only valid with-in the United States.

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product out doors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 25 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: The Tri Disc 9 IR contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation):

The Tri Disc 9 IR can be controlled via DMX-512 protocol. The Tri Disc 9 IR has 7 DMX channel modes, please see pages 12-13 for the different modes. The DMX address is set on the back panel of the Tri Disc 9 IR. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

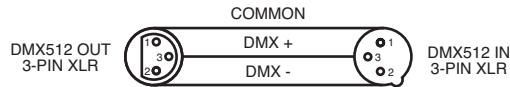


Figure 2

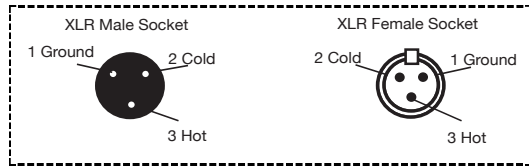


Figure 3

XLR Pin Configuration	
Pin 1 =	Ground
Pin 2 =	Data Compliment (negative)
Pin 3 =	Data True (positive)

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

LED Display On/Off:

To set the LED display to turn off after 60 seconds, press the MODE button until “don” is displayed, press the UP button to display “doff”. Now the display will disappear after 60s. Press any button to turn the display on again. Be advised though that the display will turn off automatically after 10 seconds.

To set the display press the MODE button until “dXX” is displayed. Use the UP or DOWN buttons to select either:
 “don” = LED display on at all times.
 “doFF” = LED display shuts off after 60 seconds.

LED Display Inversion:

Follow these instructions to flip the display 180° so that the display can be read upside down.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents either “on” or “oFF”.
2. Press the SET UP button until “Std” or “rev” is displayed.
3. Press the UP or DOWN buttons to reverse the display 180°.

Operating Modes:

The Tri Disc 9 IR has five operating modes:

- Sound-Active mode - The unit will react to sound, chasing through the built in programs.
- Static Color Mode - There are 35 colors to choose from.
- RGB Dimmer Mode - Choose one of the three colors to remain static or adjust the intensity of each color to make your desired color.
- Auto Run Mode - The unit will run 1 of 16 color change programs at your desired speed.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as as the ADJ Show Designer™.

RGB Dimmer Mode:

1. Plug the fixture in and press the MODE button until:
2. When “r.XXX” is displayed you are in Red dimming mode. Press the UP and DOWN buttons to adjust intensity.

3. When “G.XXX” is displayed you are in Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
4. When “b.XXX” is displayed you are in Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
5. After you have adjusted the RGB colors to make your desired color you can then activate strobing by pressing the SET UP button to enter the Flash (strobe) mode.
6. “FS.XX” will be displayed, this is Flash mode. The Flash can be adjusted between “FS.00” (flash off) to “FS.15” (fastest flash).

Sound Active Mode:

In this mode the unit will react to sound, and chase through the different colors.

1. Plug the fixture in and press the MODE button until “SoXX” is displayed. “X” represents the sound active mode (1-15) currently displayed.
2. The fixture will now change via sound.
3. Press the SET UP button to adjust the sound sensitivity. “SJ-X” should be displayed. Use the UP or DOWN buttons to adjust the sensitivity. “SJ-1” is the least sensitivity, “SJ-8” is the most.

Auto Run Mode:

In this mode the Tri Disc 9 will run 1 of 16 auto programs. The auto run program can be either a fade program or a simple color change program.

1. Plug the fixture in and press the MODE button until “APXX” is displayed. “XX” represents the program number (1-16) currently displayed.
2. After you have chosen your desired program you need to decide if you would like the program to fade through colors or simply change. Press the SET UP button until either “SP.XX” (color change) or “F-XX” (color fade) is displayed.
3. If you select color change, use the UP and DOWN buttons to adjust the speed between “SP.01” (slowest) and “SP.99” (fastest). Once you have set your desired color change speed, press the SET UP button to move on to “F-XX” (color fade). Use the UP or DOWN buttons to set the color fade speed to “F-00”. This means the color fade is off, and the fixture will now color change at the speed you have set. To run the fixture in color fade, reverse

the instructions. Set your color fade speed and set the color change speed to “SP.01”.

Static Color Mode:

1. Plug the fixture in and press the MODE button until “CL.XX” is displayed. “XX” represents the current color number displayed.
2. There are 35 colors to choose from. Select your desired color by pressing the UP and DOWN buttons. After you have selected your desired color you can activate strobing by pressing the SET UP button to enter the Flash (strobe) mode.
3. “FS.XX” will be displayed, this is Flash mode. The Flash can be adjusted between “FS.00” (flash off) to “FS.15” (fastest flash).

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. The Tri Disc 9 IR has 7 DMX modes: 1 Channel mode, 2 Channel mode, 3 Channel mode, 4 Channel mode, 5 Channel mode, 6 Channel mode, and a 7 Channel mode. See pages 13-15 for each modes’ DMX traits.

1. This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller.
2. To run your fixture in DMX mode press the MODE button until “d.XXX” is displayed. “XXX” represents the current displayed address. Use the UP or DOWN buttons to select your desired DMX address. then press the SET UP button to select your DMX Channel mode.
3. When you press SET UP “ChXX” should be displayed. “XX” represent the current DMX Channel Mode.
4. Use the UP or DOWN buttons to scroll through the DMX Channel modes. The Channel modes are listed below:
 - To run the 1 Channel Mode, press the MODE button until “Ch01” is displayed. This is the 1 Channel DMX Mode.
 - To run the 2 Channel Mode, press the MODE button until “Ch02” is displayed. This is the 2 Channel DMX Mode.
 - To run the 3 Channel Mode, press the MODE button until “Ch03” is displayed. This is the 3 Channel DMX Mode.
 - To run the 4 Channel Mode, press the MODE button until “Ch04” is displayed. This is the 4 Channel DMX Mode.

- To run the 5 Channel Mode, press the MODE button until “Ch05” is displayed. This is the 5 Channel DMX Mode.
 - To run the 6 Channel Mode, press the MODE button until “Ch06” is displayed. This is the 6 Channel DMX Mode.
 - To run the 7 Channel Mode, press the MODE button until “Ch07” is displayed. This is the 7 Channel DMX Mode.
5. Please see pages 13-17 for DMX values and traits.
 6. After you have chosen your desired DMX Channel mode plug in the fixture via the XLR connections to any standard DMX controller.

Default Running Mode:

This is a default running mode. When this mode is activated all modes will return to their default settings.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents either “on” or “oFF”.
2. Press the SET UP button until “dEFA” is displayed.
3. Press the UP and DOWN buttons simultaneously. Press the MODE button to exit.

Electro IRC:

This function is used to activate and deactivate the Electro IRX (Remote Control). When this function is activated you can control the fixture using the Electro IRC. Please see the page 11 for the controls and functions.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents “on” or “off”.
2. Press the SET UP button until “IrXX” is displayed. “XX” represents either “on” or “oF”.
3. Press the UP or DOWN buttons to either activate the remote function (On) or deactivate it (Off).

Master-Slave Configuration:

This function will allow you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the “Master.”

Master-Slave Connections and Settings:

1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR data cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. Set the “Master” unit to your desired mode of operation.
3. For the “Slave” units just connect them to the “Master”, they will start following the “Master” as soon as they are connected.

Tri Disc 9 IR**Electro IRC Operation**

The **Electro IRC** remote (sold separately) has many different functions and allows you to control your Tri Disc 9 IR from long distance. The **Electro IRC** remote can control your system up to 30 ft. To use the remote you must first activate the fixtures receiver, to activate the receiver please see the instructions on page 9.

Controls and Functions:

- 1. Black Out** - This button will black out the unit.
- 2. Select Prog** - This button will allow you to access the auto run mode and built in programs. Each press of the button will change to the next mode.
- 3. Flash** - This button will activate the strobe function. Use the "+" & "-" buttons to adjust the strobe speed.
- 4. SPEED** - Press this button to activate and use the "+" & "-" buttons to adjust the speed of the color fade mode and color change mode.
- 5. DMX Mode** - Activates DMX Mode.
- 6. Set Addr** - Press this button to set the DMX address. Press this button first, then press the numbers to set the address.
Example: Set DMX Address 1 Press "S-0-0-1"
Set DMX Address 245 Press "S-2-4-5"
- 7. SL/SA (Slave/Sound Active)** - This button lets you switch between Slave mode in a Master-Slave configuration and Sound Active mode. When the fixture is in Sound Active mode, use the "+" & "-" buttons to adjust the sound sensitivity.
- 8. R G B A W** - Press either one of these buttons and the press the "+" or "-" to adjust the brightness. Press the Flash Button to activate strobing and use the "+" & "-" buttons to adjust the strobe speed. The "A" & "W" buttons will not work with this unit.
- 9. "+" and "-"** - Use these buttons to adjust the flash rate speed, program speed, sound sensitivity, and program selection.

Tri Disc 9 IR**1 Channel - DMX Values & Functions**

Channel	Value	Function
1		COLOR MACROS
	0 - 10	OFF
	11 - 17	BASTARD AMBER
	18 - 24	MEDIUM AMBER
	25 - 31	PALE AMBER GOLD
	32 - 38	GALLO GOLD
	39 - 45	GOLDEN AMBER
	46 - 52	LIGHT RED
	53 - 59	MEDIUM RED
	60 - 66	MEDIUM PINK
	67 - 73	BROADWAY PINK
	74 - 80	FOLLIES PINK
	81 - 87	LIGHT LAVENDER
	88 - 94	SPECIAL LAVENDER
	95 - 101	LAVENDER
	102 - 108	INDIGO
	109 - 115	HEMSLEY BLUE
	116 - 122	TIPTON BLUE
	123 - 129	LIGHT STEEL BLUE
	130 - 136	LIGHT SKY BLUE
	137 - 143	SKY BLUE
	144 - 150	BRILLIANT BLUE
	151 - 157	LIGHT GREEN BLUE
	158 - 164	BRIGHT BLUE
	165 - 171	PRIMARY BLUE
	172 - 178	CONGO BLUE
	179 - 185	PALE YELLOW GREEN
	186 - 192	MOSS GREEN
193 - 199	PRIMARY GREEN	
200 - 206	DOUBLE CTB	
207 - 213	FULL CTB	
214 - 220	HALF CTB	
221 - 227	DARK BLUE	
228 - 234	WHITE	
235 - 241	FULL RED	
242 - 248	FULL GREEN	
249 - 255	FULL BLUE	

Tri Disc 9 IR 2 Channel - DMX Values & Functions		
Channel	Value	Function
1	0 - 255	COLOR MACROS (See 1 Channel DMX mode for colors)
2	0 - 255	DIMMER 0% - 100%

Tri Disc 9 IR 3 Channel - DMX Values & Functions		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%

Tri Disc 9 IR 4 Channel - DMX Values & Functions		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	MASTER DIMMER 0% - 100%

Tri Disc 9 IR 5 Channel - DMX Values & Functions		
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	MASTER DIMMER 0% - 100%
5	1 - 255	COLOR MACROS (See 1 Channel DMX mode for colors)

Channels 1, 2, and 3 will not work, when Channel 5 is being used.

Tri Disc 9 IR 6 Channel - DMX Values & Functions		
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	COLOR MACROS (See 1 Channel DMX mode for colors)
5	0 - 15 16 - 255	<u>STROBING</u> NOTHING STROBING SLOW - FAST
6	1 - 255	MASTER DIMMER 0% - 100%

Channels 1, 2, and 3 will not work, when Channel 4 is being used.

Tri Disc 9 IR		7 Channel - DMX Values & Functions	
Channel	Value	Function	
1	1 - 255	RED 0% - 100%	
2	1 - 255	GREEN 0% - 100%	
3	1 - 255	BLUE 0% - 100%	
4	1 - 255	COLOR MACROS (See 1 Channel DMX mode for colors)	
5	0 - 15 16 - 255	<u>STROBING/PROGRAM SPEED</u> NOTHING STROBING/SPEED CONTROL SLOW - FAST	
6	0 - 7 8 - 15 16 - 23 24 - 31 32 - 39 40 - 47 48 - 55 56 - 63 64 - 71 72 - 79 80 - 87 88 - 95 96 - 103 104 - 111 112 - 119 120 - 127 128 - 135 136 - 143 144 - 151 152 - 159 160 - 167	<u>PROGRAMS/SOUND ACTIVITY</u> OFF PROGRAM 1 PROGRAM 2 PROGRAM 3 PROGRAM 4 PROGRAM 5 PROGRAM 6 PROGRAM 7 PROGRAM 8 PROGRAM 9 PROGRAM 10 PROGRAM 11 PROGRAM 12 PROGRAM 13 PROGRAM 14 PROGRAM 15 PROGRAM 16 SOUND MODE 1 SOUND MODE 2 SOUND MODE 3 SOUND MODE 4	

Tri Disc 9 IR		7 Channel - DMX Values & Functions	
Channel	Value	Function	
6	168 - 175 176 - 183 184 - 191 192 - 199 200 - 207 208 - 215 216 - 223 224 - 231 232 - 239 240 - 247 248 - 255	PROGRAMS/SOUND ACTIVITY SOUND MODE 5 SOUND MODE 6 SOUND MODE 7 SOUND MODE 8 SOUND MODE 9 SOUND MODE 10 SOUND MODE 11 SOUND MODE 12 SOUND MODE 13 SOUND MODE 14 SOUND MODE 15	
7	1 - 255	MASTER DIMMER 0% - 100%	

Channels 1, 2, and 3 will not work, when Channel 4 is being used.

When using Channel 6 values 8-135, Channel 5 will control the speed of the programs.

When using Channel 6 values 136-255, Channel 5 will control the sound sensitivity. Sound sensitivity control will start working after Channel 5 is past the DMX value of 31.

1 Year Limited Warranty: Eliminator Lighting warranty is valid from the date of purchase. Our 1 year limited warranty covers manufacturing defects only. Serial number, place of purchase with dated valid receipt must be submitted at time of service. Eliminator Lighting warranty does not cover items or parts prone to wear and tear: motors, fuses, brushes and belts. Eliminator Lighting warranty is only valid with-in the United States.

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, you will find that the fuse holder is located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder also has a holder for a spare fuse.

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

With this feature you can connect the fixtures to one another using the IEC input and output sockets. The quantity that can be connected is 16 fixtures maximum. After the maximum fixtures has been reached you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.

Model: Tri Disc 9 IR

Voltage:	100V ~ 240V/50~60Hz
LEDs:	9 x 3W TRI LEDs (RGB 3-in-1)
Beam Angle:	40 Degrees
Working Position:	Any safe working position
Power Draw:	35W
Power Cord Daisy Chain:	16 Fixtures Max.
Fuse:	2 Amp
Weight:	3.9lbs./ 1.8Kgs.
Dimensions:	10.5" (L) x 10" (W) x 3.5" (H) 263 x 250 x 88mm
Colors:	RGB Color Mixing
DMX Channels:	7 DMX Modes: 1 Channel Mode, 2 Channel Mode, 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, 6 Channel Mode, & 7 Channel Mode
Warranty:	1 Year (365 days)

Auto Sensing Voltage: *This fixture contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source.*

Please Note: *Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*