

American DJ®

Star Winder™



User Instructions

American DJ
4295 Charter Street
Los Angeles Ca. 90058
www.americandj.com

Star Winder™

Introduction

General Instructions: Thank you for purchasing the American DJ® Star Winder.™ The Star Winder™ is an intelligent moon-flower effect with a twist. This unit uses a multi-colored dichroic dish overlapped with a slotted dish. The two dish rotate against each other to create an unique cross effect. To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. This unit is sound-active and may be operated with or without an universal DMX controller such as the American DJ® DMX Operator™ or Show Designer.™ The unit can be linked with several other units to run in a Master/Slave orientation. For best result use this fixture with fog to enhance the beam output.

Customer Support: American DJ® provides a toll free customer support line, to provide set up and installation help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.americandj.com for any comments or suggestions. Toll free customer service hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2610
E-mail: support@americandj.com

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 type of repair yourself without the manufactures consent, doing so will void your manufactures warranty. In the unlikely event your unit may require service, contact American DJ® customer support.

Warning! *The 1/4" phone plug on the unit is for the optional MINI/C. Do not attempt to connect an audio signal to this jack, this will damage the PC board and void your manufactures warranty!*

Star Winder™

Halogen Lamp Warning

This fixture is fitted with a halogen lamp which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare fingers as the oil from your hands will shorten the lamp life. Never install, mount, or place this fixture in areas prone to heavy vibration. Also, never move the fixture until the lamp has had ample time to cool. Remember, lamps are not covered under warranty conditions.

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Star Winder™**Unpacking**

Every Star Winder™ 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 equipment necessary to operate the unit has arrived intact. In case damage has been found or parts are missing, please contact our toll free customer support number for further instructions, please do not return the unit to your dealer.

Star Winder™**Features**

- Vibrant Color Wheel.
- Linkable.
- Audio Sensitivity Knob.
- Uses One DMX Channels.
- Sound-Active.
- DMX-512 Protocol Compatible.
- Full Focusing.
- Master/Slave Built-In Programs.
- Fan Cooled.
- Optional MINI/C Blackout Controller.

Star Winder™**Safety Precautions**

- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for 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 top cover under any conditions. There are no user serviceable parts inside.
- 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 in any way.
- Never operate this unit when it's cover is removed.
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- This unit is intended for indoor use only, use of this product outdoors 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 Cord Protection - 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 cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer.
- 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: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Star Winder.™ The American DJ® Star Winder™ is available in a 120v and 220v version. Because line voltage may vary from venue to venue, be sure to plug your unit into a matching wall outlet before attempting to operate.

Data Cable (DMX Cable) Requirements (For DMX Operation Only and Master-Slave): The Star Winder can be controlled via DMX-512 protocol. The American DJ® Star Winder™ is a three channel DMX unit. The DMX address is set on the front panel of the Star Winder. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all pro sound and 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 can not be split.



Figure 1

Notice: Be sure to follow figure 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.

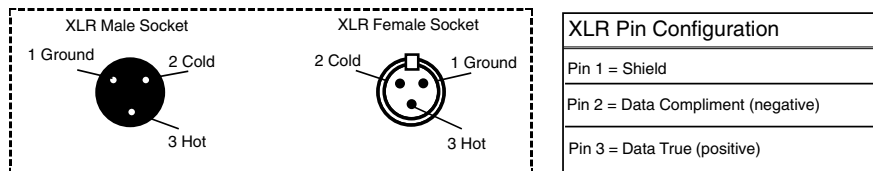


Figure 2

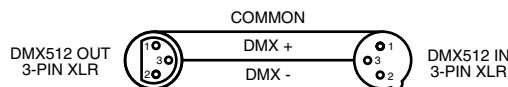


Figure 3

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 90-120 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 ZDMX/T) will decrease the possibilities of erratic behavior.

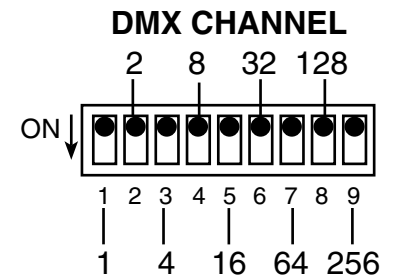


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

Dip Switch 1 address equals 1
 Dip Switch 2 address equals 2
 Dip Switch 3 address equals 4
 Dip Switch 4 address equals 8
 Dip Switch 5 address equals 16
 Dip Switch 6 address equals 32
 Dip Switch 7 address equals 64
 Dip Switch 8 address equals 128
 Dip Switch 9 address equals 256



Each dip switch has a preset value, a desired DMX address is set by combining the dip switches that will create your desired value. For example: To achieve a DMX address of 21, combine dip switches 1, 3, and 5. Sense dip switch 1 has a value of 1, dip switch 3 has a value of 4, and dip switch 5 has a value of 16, the combination of the create a DMX value of 21.

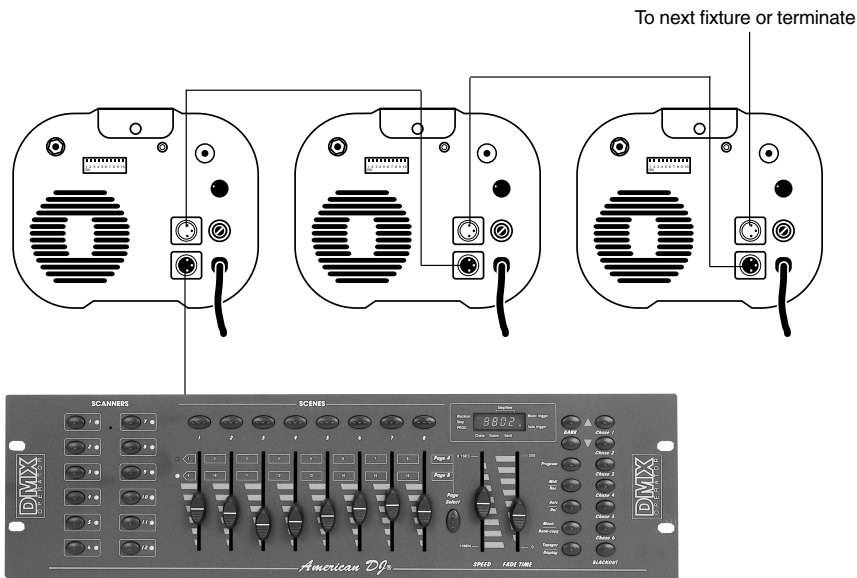
Set DMX address 21:

Dipswitches # 1 = 1
 3 = 4
 5 = 16
 = 21

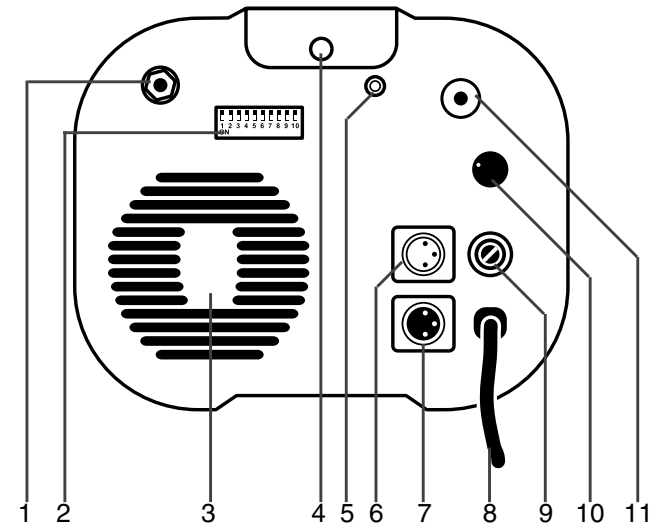
Set DMX address 201:

Dipswitches # 1 = 1
 4 = 8
 7 = 64
 8 = 128
 = 201

Linking: Your fixture comes with a built-in controller. This controller may be used to control up to 16 units when daisy-chained together in a master-slave configuration. Any unit can function as either a “Master Unit” or a “Slave Unit.” Link the units together using standard DMX cable.



For a more dramatic effect, link several Star Winders together.



- 1. MINI/C Controller Jack** - This is for use the optional MINI/C Black out controller only. ***Do not attempt to connect an audio signal this jack, this will damage the PC board and void your manufactures warranty!***
- 2. Dip Switches** - These switches are used to set the DMX address. Each switch corresponds to a specific value based on binary code. See page 6 for a detailed explanation of DMX binary code.
- 3. Cooling Fan** - Keep the fan grill clean. Never block the fan vents, always allow at least four inches between the fan and any other surface. Improper cooling may result in premature lamp failure.
- 4. Thumb Screw** - This screw hold the lamp cover in place. Remove this screw to access the lamp compartment.
- 5. Power Indicator** - This LED will flash when it receives either an audio or DMX signal.
- 6. XLR Output Jack** - This jack is used to send the incoming DMX signal to another DMX fixture.
- 7. XLR Input Jack** - This jack is used to accept an incoming DMX signal.
- 8. Power Cord** - Connect only to a matching power outlet. Never use this fixture is the ground prong has been removed or broken off.

9. **Fuse Holder** - This housing stores the 5 amp GMA protective fuse. Always replace with the exact same type fuse, unless otherwise instructed to do so by an authorized American DJ service technician.
10. **Microphone** - This mic receives external low frequencies to trigger the unit.
11. **Audio Sensitivity Knob** - This adjust audio sensitivity of the internal microphone (5). Turning the sensitivity knob in the clockwise direction will increase the sensitivity to sound. Turning the knob in the counter clockwise direction will decrease the fixture's sensitivity to sound.

Universal DMX Control: This function allows you to use a standard DMX 512 controller as the American DJ® DMX Operator™ or Show Designer™. The use of a DMX controller will allow you to customize the use of fixtures allowing you to control the rotation direction as well as the rotation speed. Operating through a DMX controller gives the user freedom to create his/her own programs tailored to their own individual needs.

1. The Star Winder™ uses one DMX channels, please see page 14 for detailed description of the DMX traits.
2. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any universal DMX controller. Follow the set-up specifications that come with the controller.
3. Use your controller to control the various fixture traits.
4. This will allow you to create your own programs.
5. When using a DMX controller and setting up for DMX operation follow the dip switch settings on page 8. If starting at a higher DMX channel follow the standard DMX Binary Code for a one channel unit. See page 6.
6. For help running in DMX operation consult the manual that comes with your DMX controller.
7. For longer cable runs we suggest using a terminator on the last fixture.

Stand-Alone Operation (Sound Active): This function allows a single unit to run to the beat of the music. Only use this function when running a single unit, or when running several units as individuals.

1. To activate the Sound-Active mode, set dip switches #1 and #10, on the rear of unit to the ON position (*See "Master Unit" on the DIP SWITCH chart on page 13*).
2. The unit will now react to the bass sound of music via the internal microphone.
3. Adjust the audio sensitivity knob on the rear of the unit to make the unit more or less sensitive to sound. Turning the sensitivity knob in the clockwise direction will increase the sensitivity to sound. Turning the knob in the counter clockwise direction will decrease the fixture's sensitivity to sound.
4. The optional **MINI/C controller** may be used with this function for blackout.

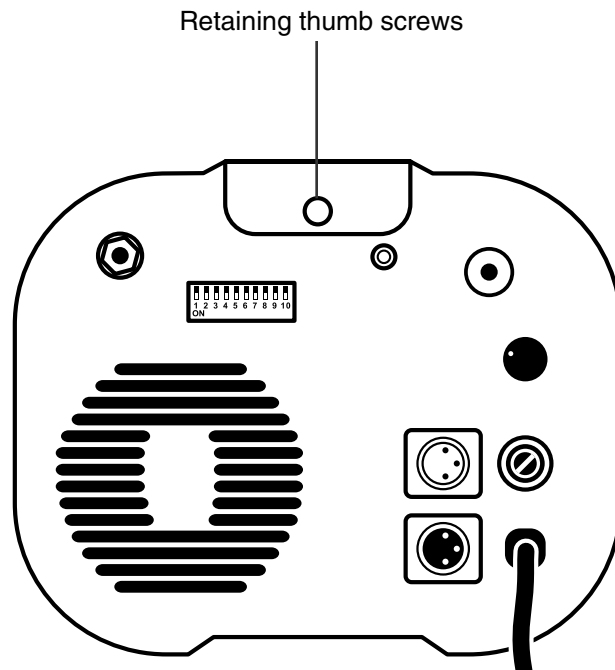
Master-Slave Operation (Sound Active): This function will allow you to link up to 4 units together and operate without a controller. The units will be sound activated. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Using standard XLR microphone cables, daisy chain your units together via the XLR connector on the rear of the units. Remember 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. For longer cable runs we suggest a terminator at the last fixture.
2. Follow the chart on page 13 for proper unit dip switch settings.
3. The optional **MINI/C controller** may be used with this function for blackout.
4. After all the units settings have been set and are plugged in, adjust the sensitivity knob on the rear of the master unit to make them react to sound.

Note: Stand-Alone and Master-Slave operation require sound to activate! The units will blackout in this mode to conserve bulb life when there is no sound present.

Lamp Replacement: Caution! Never open the unit when in use. Always disconnect the main power and allow the unit ample time to cool before attempting to replace the lamp. Remember always replace with the same type lamp and fuse.

1. Be sure to follow the proper procedures when handling halogen lamps.
2. Lamp replacement has been made simple by incorporating the use of a removable cover and retained by a thumb screw.
3. Remove the thumb screw on the rear of the unit that holds the socket assembly cover in place.
4. Carefully pull back the protective cover.
5. Remove and replace the bulb.
6. Reassemble in reverse order.



Focusing:

To focus an Star Winder;™

1. Be sure the unit is turned on and operating normally.
2. Located the thumb screw on the bottom of the unit, that holds the focusing lens place. Loosen the thumb screw.
3. Adjust the focus by manually sliding the lens back and forth, until you obtain your desired focus.
4. Tighten the thumb screw after you achieve your desired focus.
5. Proper focus should consist of tight and defined beams of light.

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

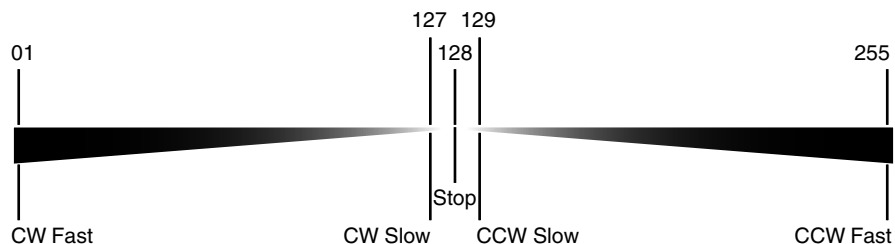
1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the fan grill.
3. Clean the external optics with glass cleaner and a soft cloth every 20 days. Situation may vary. If used heavily in clubs with lots of fog, cleaning may be required more often.
4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
5. Always be sure to dry all parts completely before plugging the unit in.

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

Star Winder™

DMX Traits

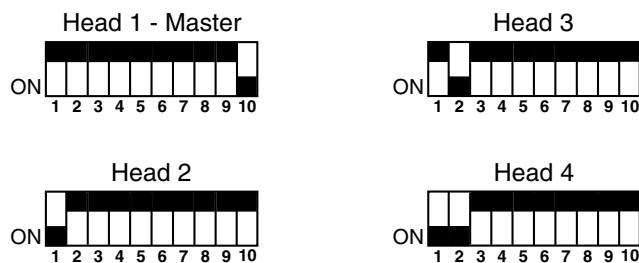
The Star Winder™ is a single DMX channel fixture



Star Winder™

Master/Slave Chart

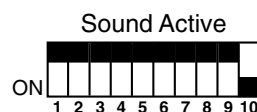
This chart list the DMX dip switch setting for Master/Slave configuration. Use this configuration when you will be using up to four units in a Master/Slave mode. Head 1 (master) will control all the other units connect to line.



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Single Unit Operation Chart

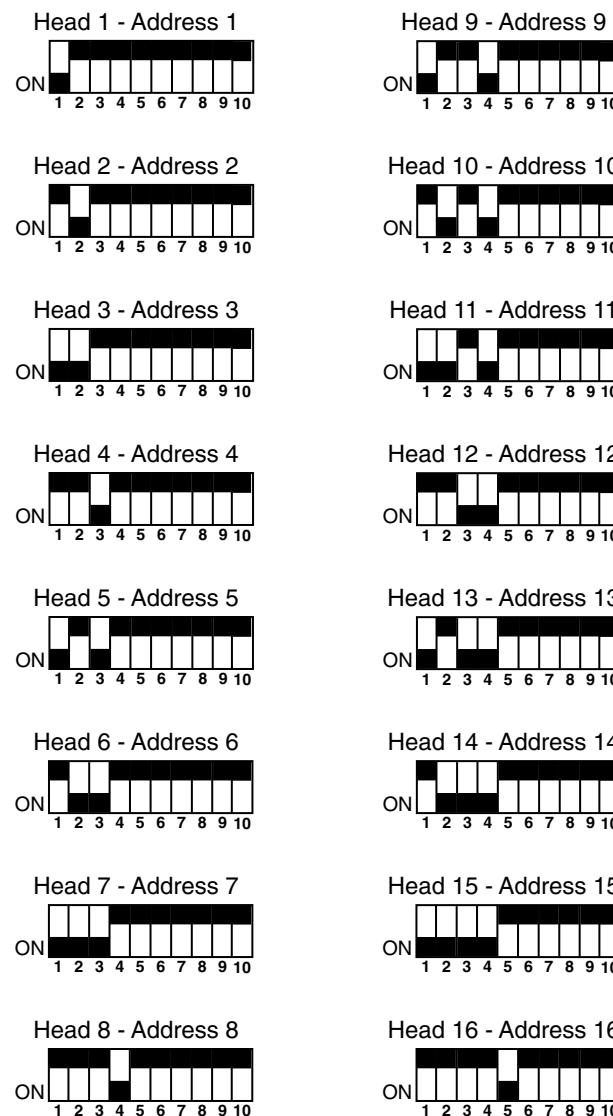
This chart list the DMX dip switch setting for single head operation. When using this fixture as a stand alone unit or when using multiple Star Winders as stand alone units, be sure all the fixtures match the illustrated dip switch setting (1 and 10 to the on position - all others off).



Star Winder™

DMX Dip Switch Chart

This chart list the DMX dip switch setting for the first 16 units. This chart is set as a guide only. Please follow standard binary DMX protocol as described on page 6 for proper dip switch settings beyond the sixteenth unit or for units not starting at DMX channel one. For the American DJ® DMX Operator™ setting please refer to the DMX Operator™ manual.



1-YEAR LIMITED WARRANTY

A. American DJ® hereby warrants, to the original purchaser, American DJ® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the American DJ® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American DJ® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American DJ® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American DJ® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ® factory unless prior written authorization was issued to purchaser by American DJ®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American DJ® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American DJ® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American DJ®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American DJ® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American DJ® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American DJ® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American DJ® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

H. Lamps are not covered under this or any other warranty, either written or implied.

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MODEL: STAR WINDER™**SPECIFICATIONS:**

VOLTAGE:	120V / 220V
LAMP:	ZB-64514 120v/300w
DIMENSIONS:	10.5" (H) X 11" (W) X 10.5 " (D) (with yoke extended)
WEIGHT:	10 LBS / 7.5 KGS.
FUSE:	5 AMP GMA
WORKING POSITION:	ANY SAFE POSITION
COOLING:	FAN COOLED
DUTY CYCLE:	30 MIN. ON, 10 MIN. OFF
GOBOS:	NONE
COLORS:	MULTIPLE - COLOR DISH
DMX CHANNELS:	1

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

©American DJ World Headquarters:
4295 Charter Street Los Angeles, CA 90058 USA
Tel: 323-582-2650 Fax: 323-582-2610
Web: www.americandj.com E-mail: info@americandj.com