American DJ®
DURA
SPOT
150™

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User Instructions

American DJ®
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American DJ®

Dura Spot 150™

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Dura Spot 150™	Specifications

Model:	**Dura Spot 150™**
Voltage*:	230v/50Hz
Lamp:	ZB-HTI152 150w 2000 Hours
Dimensions:	14.7"(L) x 11.5"(W) x 17.7"(H)
	373mm x 292mm x 550mm
Colors:	9 Plus White
Gobos:	7 Rotating + Spot - All Replaceable
	27cm Outside/ 21cm Viewable
Weight:	29 Lbs. / 10.4 kgs.
Fuse:	4A (220v)
Duty Cycle:	None
DMX:	8 Channels
Sound Active:	Yes
Working Position:	Any Safe, Secure Position
Warranty:	1 Year (365 days)

*Voltage is preset at the factory and is not user selectable

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

Unpacking: Thank you for purchasing the Dura Spot 150™ by American DJ®. Every Dura Spot 150™ 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 the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

Introduction: This unit is a 8 channel DMX intelligent scanner. It can be run as a stand-alone, sound active unit, DMX controlled unit, or in a Master/Slave configuration. This unit has been tested and the lamp has been installed at the factory, there is no assembly required. The unit is ready to be plugged in to a power outlet. There are no dipswitch settings for Master/Slave mode, just simply link the units together. To enhance the beams effects you can use a fog machine. This unit looks good in pairs.

During the initial start-up or use of this product a light smoke or smell may arise from the unit. This is a normal process and is cause by the heat associated with the lamp.

Customer Support: American DJ Europe® provides a customer support line, to provide 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.americandjeurope.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m.

Voice:	+31 45 546 85 00
Fax:	+31 45 546 85 99
E-mail:	service@americandjeurope.com

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

Warning! *This may cause severe eye damage. Avoid looking directly into the light source at all times!*

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

• 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.

• 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 cover under any conditions. There are no user serviceable parts inside.

• Never operate this unit when it's cover is removed.

• 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 outdoors voids all warranties.

• 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 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. See page 38 for cleaning details.

• Heat -This fixture 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. Objects have fallen, or liquid has been spilled into the appliance.
  B. The appliance has been exposed to rain or water.
  C. The appliance does not appear to operate normally or exhibits a marked change in performance.

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.

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the cooling vents and fan grill.
3. Clean the external optics and mirror with glass cleaner and a soft cloth every 20 days.
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 back in.

Trouble Shooting: Listed below are a few common problems that you may encounter, with solutions.

No light output from the unit;

1. Be sure you have connected your unit into a standard 120v wall outlet.
2. Be sure the external fuse has not blown. The fuse is located on the bottom panel of the unit.
3. Remove the lamp holder and be sure the lamp is seated in its socket properly. Occasionally lamps become loose during shipping be sure the lamp is push in to its socket all the way.
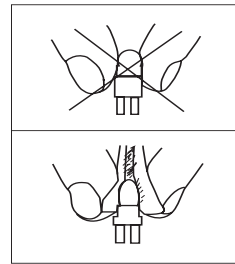4. Be sure the fuse holder is completely and properly seated.

Unit does not respond to sound;

1. Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.

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 American DJ®.

During operation the housing may become extremely hot. Avoid touching the unit with bare hands while in use.

American DJ® will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.

This fixture is fitted with a discharge 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 lamp life. Also, never move the fixture until the lamps have had ample time to cool. Remember, lamps are not covered under warranty conditions.

This unit emits intense UV radiation which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. Never operate this unit without it's covers, these covers have been specially designed to shield against UV radiation.

Epileptic Warning: *Those suffering from epilepsy should avoid looking directly into the lamp at all times.*

Avoid switching the fixture on and off repeatedly in short intervals as this will reduce lamp life and intensity.

To achieve the intensity associated with discharge lamps, these lamps use gas sealed in a high pressure environment to emit a brilliant output. Due to the high pressure involved with the construction of the lamp, the lamp may explode during prolonged extensive use. This risk is increased with age, added care is encouraged when dealing with older lamps. Extreme caution should be used when operating this or any fixture fitted with a gas discharge lamp. Never open this unit while in use.

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

The Dura Spot 150™ carries a one year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our toll free customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper at the shippers cost.

- Micro-Stepping Motors for Smooth Color and Gobo Transitions
- DMX-512 Protocol Compatible (Uses Eight DMX Channels)
- Independent Gobo and Color Wheels
- 7 Rotating Gobos w/ Shake, + Spot - All Replaceable
- 9 Colors, Plus White - With Rainbow Effect
- 3 Operating Modes - Master/Slave; Stand Alone; Sound Active
- Internal Microphone
- ZB-HTI152 Discharge Lamp, 150w 2000 Hours
- Manual Focus Lens
- Variable Strobe
- 360˚ Pan Movement
- 265˚ Tilt Movement
- Digital Display for Address and Function Setting
- Mini/C Input Jack for Blackout Function
  (Mini/C Controller Not Included)

Caution! *Never open the unit when in use. Always disconnect the main power before attempting to change the gobos.*

1. To change the gobos, you must remove the bottom half of the moving head. The bottom half of the moving head is wear the fan is located.

2. Unscrew the four phillips screws, that secure the bottom half, and remove.

3. When you remove the bottom half, the gobo and color wheel will now be accessible. Turn the wheel with your hand until you find the gobo you would like to change. Turn the color wheel until the empty space is behind the gobo you would like to change.

4. Remove the gobo fixation-ring with a small flat-head screwdriver. Put your finger through the empty space in the color wheel, and push the gobo out towards the front. When doing this you do not need a lot of pressure. You can also use tweezers to gently pull the gobo out, or a small flat-head screwdriver and gently pry out the gobo.

5. Change the gobo, replace the fixation-ring, and reassemble the unit.

Channel	Value	Function
5	78 - 85	PINK
	86 - 92	COLOR MIX
	93 - 99	MAGENTA
	100 - 106	COLOR MIX
	107 - 113	LIGHT YELLOW
	114 - 120	COLOR MIX
	121 - 127	LIGHT GREEN
	128 - 255	RAINBOW EFFECT
		SLOW ➞ FAST
6		SHUTTER/STROBE
	0 - 130	SHUTTER OPEN
	131 - 253	STROBE
		SLOW ➞ FAST
	254 - 255	SHUTTER OPEN
7	0 - 255	GOBO SHAKE
8	0 - 255	PAN/TILT SPEED
		SLOW ➞ FAST

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Dura Spot 150.™ The American DJ® Dura Spot 150™ is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture. Also be sure to only use the included I.E.C. power cable supplied with the unit, this cable matches the voltage and current requirements of the unit.

DMX-512: *DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures 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. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. 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 and Master/Slave Operation): The Dura Spot 150™ can be controlled via DMX-512 protocol. The Dura Spot 150™ is a eight channel DMX unit. The DMX address is set electronically using the controls on the side panel of the unit. 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

Figure 1

conductor shielded cable (This cable may be purchased at almost all professional 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 cannot be split.

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.
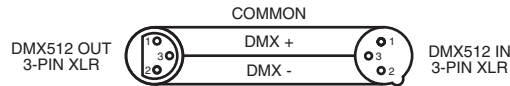
COMMON
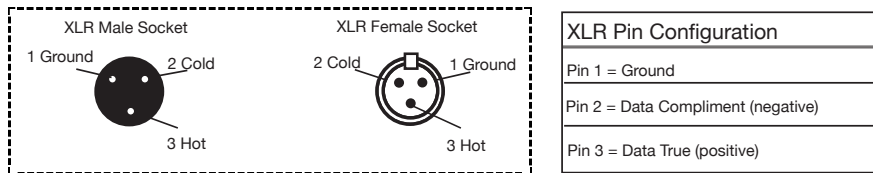DMX512 OUT   DMX +   DMX512 IN
3-PIN XLR   DMX -   3-PIN XLR

Figure 2

XLR Male Socket   XLR Female Socket
1 Ground   2 Cold   2 Cold   1 Ground
3 Hot   3 Hot

XLR Pin Configuration

Pin 1 = Ground

Pin 2 = Data Compliment (negative)

Pin 3 = Data True (positive)

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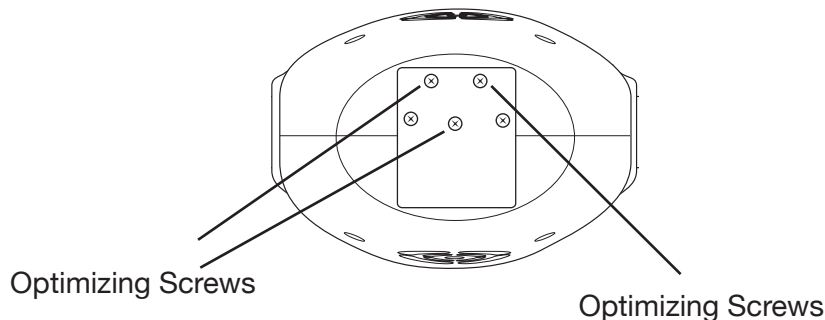
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.   Figure 4

Channel	Value	Function
1	0 - 255	PAN
2	0 - 255	TILT
3	0 - 255	GOBO WHEEL
	0 - 15	SPOT
	16 - 31	GOBO 1
	32 - 47	GOBO 2
	48 - 63	GOBO 3
	64 - 79	GOBO 4
	80 - 95	GOBO 5
	96 - 111	GOBO 6
	112 - 127	GOBO 7
	128 - 255	GOBO SCROLL SLOW → FAST
4		GOBO ROTATION
	0 - 83	FAST → SLOW
	84 - 87	NO ROTATION
	88 - 170	SLOW → FAST
	171 - 178	NO ROTATION
	179 - 255	FAST → SLOW
5	0 - 255	COLOR WHEEL
	0 - 7	WHITE
	8 - 14	DARK BLUE
	15 - 21	COLOR MIX
	22 - 28	DARK YELLOW
	29 - 35	COLOR MIX
	36 - 42	DARK GREEN
	43 - 49	COLOR MIX
	50 - 56	LIGHT BLUE
	57 - 63	COLOR MIX
	64 - 71	ORANGE
	72 - 77	COLOR MIX

Optimizing Lamp Alignment: This procedure centers the lamp in the reflector. Proper optimization will increase lamp life and ensure a bright crisp output. Improper optimization may add a yellow tint to the lamp output and reduce intensity.

1. Be sure main power is disconnected and allow the unit to cool. If the you have just installed a new unit you can obviously skip this step.
2. Make a preliminary adjustment: Turn the three lamp adjustment thumb screws completely in (clockwise). Then back them each out (counter-clockwise) about three complete turns.
3. Turn the unit on and allow it to reset.
4. Using either a DMX controller or the control panel on the unit, strike the lamp and focus the light on a flat surface.
5. Center the hot-spot (the brightest part of the beam) using the 3 adjustment screws. Turn one screw at a time to drag the hot-spot diagonally across the projected image. If you cannot detect a hot-spot, adjust the lamp until the light is even.
6. To reduce a hot-spot, pull the lamp in by turning all three screws clockwise 1/4-turn at a time until the light is evenly distributed.
7. If the light is brighter around the edge than it is in the center, or if light output is low, the lamp is too far back in the reflector. "Push" the lamp out by turning the screws.

Optimizing Screws

Optimizing Screws

Fuse Replacement: Locate the unit's power cord. The fuse holder is located above the power cord. Using a flat-head screw driver unscrew the fuse holder. Remove the bad fuse and replace with a new one.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors 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		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

MENUS: To access these menus you must press the ESC button twice and then press the UP button until you find the specific menu you are looking for.

A001: At this menu you can set the DMX address. Press the Enter button, and the "A" will start flashing. Press the UP or Down buttons to find your desird address. When you have found your desired address press the Enter button to set it.

TEST: In this menu you can select one of three test modes to run. Using the Up button scroll to "test" and press Enter. It will now display "Mode 1". You can scroll to another test mode by pressing the Up button. To select your desired test mode press the Enter button. Then press the Up button to access the Speed menu. Adjust the speed, and then press the ESC (Escape) button. The test mode should now be activated. To pause the test mode, press Enter. If you want to stop test mode, pause it and then press ESC.

AUDI: In this menu you can activate Sound Active mode. Using the Up button scroll to "AUDI" and press Enter. Press the Up button until "On" is displayed, and press Enter. Now, press ESC, so that the address is showing. It will take about 10 sec. for Sound Activity to start. The display will flash TEST RUN. Don't worry the unit will be sound active.

REVERSE PAN (RPAN): In this menu you can reverse the Pan function. Using the Up button scroll to "rPan" and press Enter. Press the Up button until "On" is displayed, and press Enter. Now, press ESC. This function works better when you have two units connected in a Master/Slave setup. Have one unit set to reverse Pan and the other unit left in normal Pan.

REVERSE TILT (RTILT): In this menu you can reverse the Tilt function. Using the Up button scroll to "rTilt" and press Enter. Press the Up button until "On" is displayed, and press Enter. Now, press ESC. This function works better when you have two units connected in a Master/Slave setup. Have one unit set to reverse Tilt and the other unit left in normal Tilt.
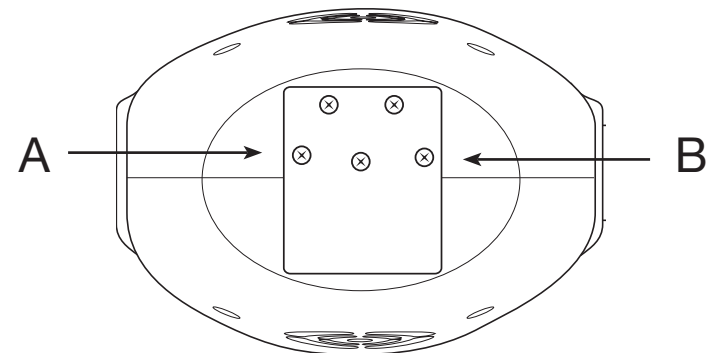
DISP (Display): In this menu you can "flip" the display 180°. Using the Up button scroll to "disp" and press Enter. "Turn" should now be

Caution: *Always replace with the exact same type lamp and fuse, unless otherwise specified by an authorized American DJ® service technician. Replacing with anything other than the specified part can damage your unit and will void your manufactures warranty.*

Warning: *If you continue to blow lamps or fuses, STOP using the unit. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.*

Lamp Replacement: Caution! Never attempt to change the lamp while the fixture is plugged in. Always disconnect the main power and allow the unit ample time to cool before attempting to replace the lamp. Lamp replacement has been made simple by incorporating a slide out lamp assembly that is retained by two phillips screws.
1. Be sure to follow the proper handling procedures that deal with discharge lamps.
2. Remove the two small screws (A,B) on the rear of the unit
3. After removing the screws, gently slide out the socket assembly from the rear of the unit to expose the lamp.
4. Carefully remove the old lamp and discard it in the trash.
5. Replace the lamp with an exact match and reassemble in reverse order.
6. After replacing the lamp follow the optimization procedures on the next page to be sure the lamp is center in the reflector

function will allow you to link up to 16 units together and operate without a controller. The units can be sound activate or run in a test mode. 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. This is a very simple process. 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. For longer cable runs we suggest a terminator at the last fixture. ***You do not have to assign the units Master/Slave. They will automatically fall into Master/Slave mode.***

2. Use the sensitivity knob on the rear of the master unit to make it more or less sensative to sound.

3. The optional Mini/C blackout Controller may be used with in this operation for blackout.

displayed. Press the Up button if we wish to "flip" the display, and press Enter.

VERS (Version): In this menu you can view the software version. Using the Up button scroll to "VerS" and press Enter. The version should be displayed. Press ESC to exit this menu.

DEFA (Default): In this menu you can reset to the default settings. Using the Up button scroll to "deFA" and press Enter. "Yes" should be displayed. Press Enter to start the default function.

R.S.E.T. (Reset): In this menu you can activate reset function. Using the Up button scroll to "r.S.e.t." and press Enter. The unit will now begin to reset.

On-Board System Menu. To access these menus you must press the ESC button twice and then press the UP button until you find the specific menu you are looking for.

A001 - DMX Address Setting via control board -

1. Access the main menu.

2. Tap the ESC button until "ADDR" is displayed, press ENTER.

3. Now the display will show "A001". Adjust the DMX address by pressing the UP or DOWN buttons.

4. Press ENTER to confirm.

5. Press the ESC button to return to the main menu.

TEST - This will test the functions of this light.

1. Access the main menu.

2. Tap the ESC button until "TEST" is displayed, press ENTER.

3. The display will show "Mod 1". You can now press the up button to change between the three different modes.

4. Press ESC to exit.

AUDI - This function is the Sound Active mode.

1. Press the ESCAPE (ESC) button until "A.001" is displayed. Then press the UP button until "AUDI" is displayed. Press the ENTER button.

2. Press the UP button to display "YES". Press ENTER to confirm.

3. You can adjust the audio sensitivity of the unit by turning the audio sensitivity knob clockwise, located in the rear.
Note: When the unit is in Sound Active mode, "test run" will continuously flash on the LCD screen.

this mode when running a single unit, or when running several units as individuals.

SOUND ACTIVE MODE:
1. To activate Sound Active mode, press the ESC button twice until "TEST" is displayed. Now press the Up button until the L.E.D. displays "AUDI", press Enter. Press the Up button until "ON" is displayed. If "ON" is already displayed then press Enter. Now press the ESC button.
2. You can now press the Up button to access the speed menu for the pan/tilt. Once you access the speed menu you can press the Up or Down buttons to change the speed. The higher the value the faster the speed.The unit will react to the low frequencies of music via the internal microphone.
3. Adjust the audio sensitivity knob on the bottom 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, turning the knob in the counter-clockwise direction will decrease the fixture's sensitivity to sound.
4. The optional E122/C Controller may be used with this mode to control blackout.

TEST MODE:
When power is supplied to the unit this is the default setting. Press ESC once to select from three different modes.
1. To reactivate a Test mode, press the ESC button twice. The LCD will display "TEST", press Enter. You now have three test programs (modes) to choose from. Press the Up button or Down button to find the program that you want to activate. When you have found your desired program press Enter.
2. You can now press the Up button to access the speed menu for the pan/tilt. Once you access the speed menu you can press the Up or Down buttons to change the speed. The higher the value the faster the speed.
3. Now press the ESC button. The unit will react to the low frequencies of music via the internal microphone.
4. The optional E122/C Controller may be used with this mode to control blackout.

Master-Slave Operation (Sound Active or Test Mode): This

Operating Modes: *The Dura Spot 150™ can operate in three different modes. This next section will detail the differences in the operating modes.*

• ***Stand alone mode -***
The unit will react to sound, chasing through the built-in programs.

• ***Master/Slave mode -***
You can daisy chain up to 16 units together to get a synchronized light show without the need of an external controller. The units will react to sound chasing through the several built-in programs.

• ***DMX control mode -***
This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer.™

Universal DMX Control: This unit allows you to use any universal DMX-512 controller to control mirror movement, the color wheel, the gobo wheel, and the shutter (strobe). A DMX controller allows you to create unique programs tailored to your individual needs. Follow the set-up specifications that are included with your DMX controller.

1. The Dura Spot 150™ uses eight DMX channels. Channel 1 controls pan, channel 2 controls tilt, channel 3 controls the gobo wheel, channel 4 controls the gobo rotation, channel 5 controls the color wheel, channel 6 controls the strobe effect, channel 7 controls the gobo shake, and channel 8 controls the speed of pan and tilt.
2. To control your fixture in DMX mode, press the ESC button twice. Now press the UP button until "A001" is displayed, press ENTER.
3. Now press the UP button to set your desired address and press ENTER.
4. Use the controller's faders to control the various DMX fixture traits.
5. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
6. For help operating in DMX mode consult the manual included with your DMX controller.

Stand-Alone Operation (Sound Active or Test Mode): This mode allows a single unit to run to the beat of the music. Only use

RPAN - **The movement of the Pan will be reversed.**

1. Access the main menu.

2. Tap the UP button until "RPAN" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ESC to confirm.

7. Press ESC to return to the main menu.

RTILT - **The movement of the Tilt will be reversed.**

1. Access the main menu.

3. Tap the UP button until "RTILT" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press ESC to return to the main menu.

DISP - **This function will reverse the display 180º.**

1. Access the main menu.

2. Tap the UP button until "DISP" is displayed.

3. Press ENTER, the display will show "ON/OFF".

4. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

5. Press ENTER to confirm.

6. Press ESC to return to the main menu.

VER - Use this function to display the Software version of the unit.

1. Access the main menu.

2. Tap the UP button until "VER" is displayed, press ENTER.

3. The display will show "V-2.0", or the latest version number.

4. Press ESC to exit.

DEFA - With this function you can restore the factory settings of the device. All settings will be set back to the default values.

1. Access the main menu.

2. Tap the UP button until "DEFA" is displayed, press ENTER.

3. The display will show "ON/OFF".

4. Press the UP button to display "ON" to activate this function, or "OFF" to deactivate this function.

5. Press ENTER to confirm.

6. Press ESC to return to the main menu.

When you exit this function, the unit will begin to reload data.

R.S.E.T. - When you activate the reset function, the fixture will begin the reset motion.

1. Press the ESC button until "A.001" is displayed. Then press the UP button until "R.S.E.T." is displayed. Press the ENTER button.

2. The display will show "ON/OFF".

3. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

4. Press ENTER to confirm.

5. Press ESC button to return to the main menu.