



User Instructions

American DJ
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Rev. 2/06

DJ Scan 250HP™

Introduction

Introduction: Congratulations and thank you for purchasing the DJ Scan 250HP™ by American DJ®, one of the finest pieces of its kind on the market today! The DJ Scan 250HP™ is a great inexpensive, light weight, intelligent fixture. Due to its physical specifications, it's a great piece for mobile DJ's, roller rinks, small clubs, bars, and bowling centers. When used in multiples of two or more, these units create an effect that rivals that of units that can cost up to three times the price. The DJ Scan 250HP™ was designed to run in a Master/Slave mode but can be used with any universal DMX-512 controller.

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 5:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2610

E-mail: support@americandj.com

To purchase parts online visit <http://parts.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 repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact American DJ® customer support.

Please recycle the shipping carton when ever possible.

Improvements and changes in specifications and design to this manual and unit may be made at any time without prior notice.

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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- 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. Please route your power cord out of the way of foot traffic.
- 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 cords should be routed so 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 unit.
- Cleaning - Follow the directions on page 10.
- Heat -The unit 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 fixture does not appear to operate normally or exhibits a marked change in performance.

Master/Slave Quick Start Stand Alone Mode

Connect up to four units together via XLR cables. The master unit will run the slaves to the masters built in programs and internal microphone. Plug in all units. When the DJ Scan 250HP™ is first turned on, it will run through an internal self test where it resets all motors to their zero position. After the self test the units will react to sound, and follow several built in programs.

The DJ Scan 250HP™ features a bright 250 watt halogen bulb with a separate gobo and color wheel. The color wheel features seven brilliant colors plus white and the gobo wheel features 10 gobos plus a large spot. This fixture incorporates the use of high quality stepper motors for a more accurate mirror movement. Mirror movement allows for a full 90 degree tilt (vertical) and a 45 degree pan (horizontal). An internal built in microphone allows the fixtures to run in Stand Alone mode so there is no need for an external controller. The DJ Scan 250HP™ may also be set-up to run in a Master-Slave mode when used in multiples, up to four units. When used in the Master-Slave mode, the unit will chase to several internal programs. The DJ Scan 250HP™ can also be controlled via a standard DMX controller such as the Elation® Show Designer,™ or the Elation® DMX Operator,™ giving the user independent control over the gobo and color wheel as well as the mirrors pan and tilt movements.

Note: The built in programs in the DJ Scan 250HP™ are so good you may never need a DMX controller.

- ZB-ELC10 24V/250W
- DMX-512 Compatible.
- Stepper motors for smooth movements.
- 7 colors plus white.
- 10 Gobos plus spot.
- Gobo Shake
- Master/Slave Operation
- Sound Active.
- Optional MINI/C controller, for blackout control.
- Optional Wireless MINI/C controller, for blackout control.

Unpacking:

Every DJ Scan 250HP™ has been thoroughly tested and has been shipped in perfect operating condition, there is no assembly necessary. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit 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.

Power Supply:

Before plugging your unit in be sure the source voltage in your area matches the required voltage for your American DJ® DJ Scan 250HP™. The American DJ® DJ Scan 250HP™ is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure to plug your unit into a matching wall outlet before attempting to operate you controller.

Data Cable (DMX Cable) Requirements:

Your controller and packs require a standard 3-pin XLR connector for DMX data input and DMX 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 “Y-d” or split.

Notice: 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.

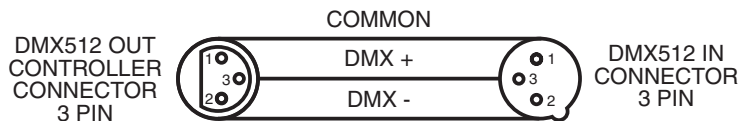


Figure 2

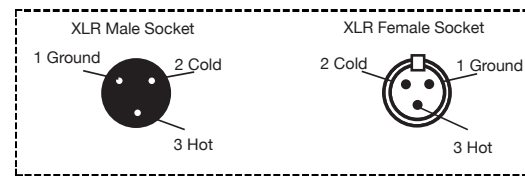


Figure 3

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

Figure 3

Notice: Be sure to follow figures two and three when making your own cables.

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 will decrease the possibilities of erratic behavior.

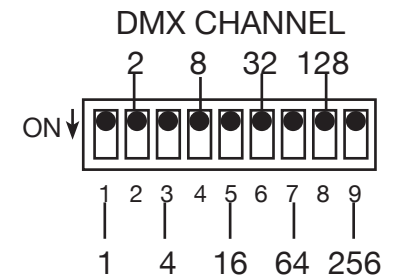


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

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

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



Operating Modes:

You can use the DJ Scan 250HP™ in three ways:

- **Stand alone mode** - The unit will react to sound, chasing through the several built in programs. You can also use the optional DJ Scan MINI/C Remote Control to blackout the units.
- **Master/Slave mode** - You can daisy chain up to 4 units together to get a synchronized light show that will react to sound chasing through 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.™

For best results use fog or special effects smoke to enhance the beams projections. The DJ Scan 250HP™ comes with a protective transportation cover. Be sure to remove it before attempting any operation!

Stand Alone Mode:

1. To operate as a stand alone unit, via its internal chases and microphone, flip dipswitch #10 to the “On” position.
2. Adjust the sensitivity knob on the bottom of the unit so the unit will react to sound.
3. The DJ Scan 250HP™ will now react to the bass sound of music via the internal microphone.

Master-Slave Operation:

This function will allow you to link up to 16 units together to run on the master unit's 2 internal programs. 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. Daisy chain your units via the XLR connector on the bottom of the units.
2. Use standard XLR microphone cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output.
3. 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.

4. Turn the master unit dipswitches to the “Off” position.
5. Please follow chart on page 13 for all master/slave dipswitch settings. Note only one fixture may use the master units dipswitch settings.
6. After all the units settings have been set and are plugged in, adjust the sensitivity knob on the bottom of the master unit to make them react to sound.
7. To run a synchronized light show set all the dipswitch on all the fixture to the ‘off’ position. All fixtures will now run in the same exact pattern.
8. You can also use the optional MINI/C Remote Control. If you want to use the optional remote control, connect the MINI/C controller to the first fixture in the line (master).

Note: The remote control only operates in Stand-Alone and Master/Slave modes. If the remote is connected in DMX mode it will not function. If the units do not receive an active DMX signal, the units will automatically react to sound in the Master/Slave mode.

DMX Mode:

This fixture will react with DMX operation. For best results use only one motor function for each scene (or step), when programming scenes into a DMX controller. This will give you faster mirror and faster gobo/color changes. For Example:

- A. With the DMX controller move the mirror up then program the step.
 - B. Move the mirror down then program that step.
 - C. Change the gobo/color wheel then program that step.
 - D. Continue this pattern to achieve best results.
1. Operating through a DMX controller gives the user freedom to create his/her own programs tailored to their own individual needs. This function also allows you to use your fixtures as spots.
 2. This operation will allow you to control each individual fixtures traits with a standard DMX 512 controller such as the Elation® Show Designer™ or the Elation® DMX Operator.™
 3. The DJ Scan 250HP™ uses four DMX channels to operate; Channel1 is Pan, channel 2 is Tilt, channel 3 is Color, and channel 4 Gobos.
 4. To run your fixture in DMX mode, plug in the fixture via the XLR

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connections to any standard DMX controller. Set dipswitch #1 to the on position - Follow the set-up specifications that come with the controller.

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Optional Remote

The MINI/C controller may be purchased separately allowing you to control the main unit, and any others connected to it, while it is in stand alone mode. You can set the unit to blackout. If you have more than one unit, make sure the remote control is plugged into the first unit in the daisy chain. The remote control will not have any effect if the unit is in DMX mode. When the unit is in blackout mode, the light will come on next to the blackout button.

The DJ Scan 250HP™ may be controlled by a wide range of controllers; ie. Show Designer™, DMX Operator™, Scene Setter™ or by the DJ MINI/C basic controller.

MINI/C features:



DJ Scan 250HP™

Lamp Replacement

Lamp Replacement: Caution! Never open the unit when in use. Always disconnect the main power before attempting to replace the lamp.

1. Be sure to follow the proper procedures when handling halogen bulbs.
2. Lamp replacement has been made simple by incorporating the use of a removable lamp tray and thumb screws.
3. Loosen the thumb screw on rear cover.
4. Remove the tray.
5. Remove and replace the bulb.
6. Reassemble.

Remember to always replace with the exact same type lamp and fuse, unless otherwise specified by an authorized American DJ service technician.

DJ Scan 250HP™

Focusing

1. To focus a DJ Scan 250HP™ it is best to first turn down the music sensitivity knob to its minimum position.
2. Loosen the thumb screw on the front of the unit that hold the lens in place.
3. Adjust the focus by manually moving the lens up and down.
4. Tighten the thumb screw after you achieve your desired focus.

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).

Listed below are a few common problems the user may encounter, with solutions.

No light from the unit;

1. Check if the fan is running. If not, there is no main power supply.
2. Check the breaker in the back panel.
3. Check if lamp is lit. The user should be able to see some light escape through the fan. If power is present but the lamp is not lit, lamp may need to be replaced.

Note: The unit has been designed to shut the lamp down after 60 seconds of inactivity. This is a way of extending lamp life, be assured this is not the problem with the fixture.

Unit not responding to DMX;

1. Check the dipswitch settings.
2. Check that the DMX cables are connected properly and are wired correctly (pin 3 is 'hot'; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.
3. If DMX connectors are fairly short, ordinary microphone cables

may be used. For longer runs, this may cause data transmission problems (which will show up as random or incorrect movements) for best result, use proper balanced data transmission cable.

Unit does not respond to sound;

1. Be sure the audio sensitivity knob is turn in the full clockwise position (maximum sensitivity).

Unit blacks out in stand alone mode;

1. Some of the units' built-in patterns include special effects such as blackout sweeps.
2. Be sure the audio sensitivity knob is turn in the full clockwise position (maximum sensitivity).

If problems are not resolved; Contact your American DJ® customer support for possible service options.

The DJ Scan 250HP™ carries a one year (365 days) limited warranty. We recommend you 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. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact American DJ® customer support for a R.A. number.

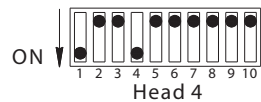
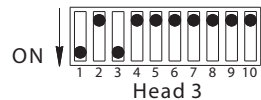
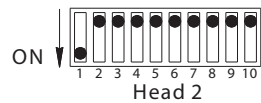
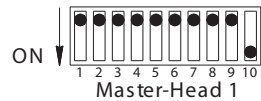
DJ Scan 250HP™

Master/Slave Settings

The following details the proper dipswitch settings for the narrow and wide Master-Slave sound active programs. Please follow these setting when running four units in a Master-Slave configuration.

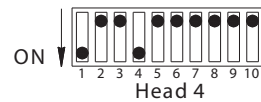
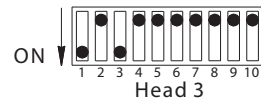
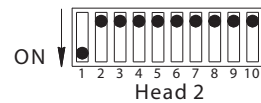
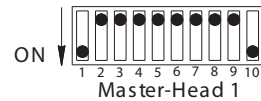
Narrow Program

Master/Slave Chart Program 1



Wide Program

Master/Slave Chart Program 2



DJ Scan 250HP™

Gobo Layout



Gobo 1



Gobo 2



Gobo 3



Gobo 4



Gobo 5



Gobo 6



Gobo 7



Gobo 8



Gobo 9



Gobo 10

DJ Scan 250HP™

DMX Traits

Channel	Value	Function
1	0 - 255	PAN
2	0 - 255	TILT
3	0 - 139	COLOR
	0 - 28	LAMP OFF
	29 - 57	WHITE
	58 - 86	RED
	87 - 115	BLUE
	116 - 144	GREEN
	145 - 173	YELLOW
	174 - 202	ORANGE
	203 - 231	PINK
	232 - 255	PURPLE
	4	
0 - 7		SPOT
8 - 21		SPOT SHAKE
22 - 29		GOBO 1 (metal)
30 - 43		GOBO 1 SHAKE
44 - 51		GOBO 2 (metal)
52 - 65		GOBO 2 SHAKE
66 - 73		GOBO 3 (dichroic)
74 - 87		GOBO 3 SHAKE
88 - 95		GOBO 4 (metal)
96 - 109		GOBO 4 SHAKE
110 - 117		GOBO 5 (metal)
118 - 131		GOBO 5 SHAKE
132 - 139		GOBO 6 (metal)
140 - 153		GOBO 6 SHAKE
154 - 161		GOBO 7 (metal)
162 - 175		GOBO 7 SHAKE
176 - 183		GOBO 8 (metal)
184 - 197		GOBO 8 SHAKE
198 - 205		GOBO 9 (metal)
206 - 219		GOBO 9 SHAKE
220 - 227	GOBO 10 (metal)	
228 - 241	GOBO 10 SHAKE	
242 - 249	BLACK OUT	
250 - 255	BLACK OUT SHAKE	

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 User 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. All lamps and fuses are not covered under this warranty.

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Specifications: DJ Scan 250HP™

Weight:	11 Lbs./5 Kgs.
Dimensions:	21" (L) x 9" (W) x 9.5" (H)
Lamp:	ZB-ELC10 24v-250w
Breaker:	5 Amp
Voltage*:	120v/220v, 60Hz/50Hz
Gobos:	10 Plus Spot
Colors:	7 Plus White
Cooling:	Fan Cooled
Working Position:	Any Safe Position

* Operating voltage is preset at the factory.

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

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