American DJ®

LED TOUCH

User Instructions

- Controls Up To 6 Individual RGB, RGBW, RGBD, or RGBD/S LED Fixtures
- 6 Built-In Chases w/ Adjustable Hold/Fade Times
- 24 Factory Chase Macros
- 255 Preset RGB Color Levels
- Auto, Manual, and Sound Active Operation Modes
- 18 Programmable Chases, Up to 30 Steps each w/ Adjustable Hold/Fade Times
- Built-In Clock For Event Triggering
- Compatible With The LED-T-FC Foot Controller (Not Included)

LED Touch™   **Customer Support**

Customer Support: American DJ® provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial opera-tion. You may also visit us on the web at www.americandj.com for any comments or suggestions. *For service related issue please contact American DJ®.* Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

        Voice: (800) 322-6337
        Fax: (323) 582-2941
        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 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 whenever possible.

LED Touch™   **Product Registration**

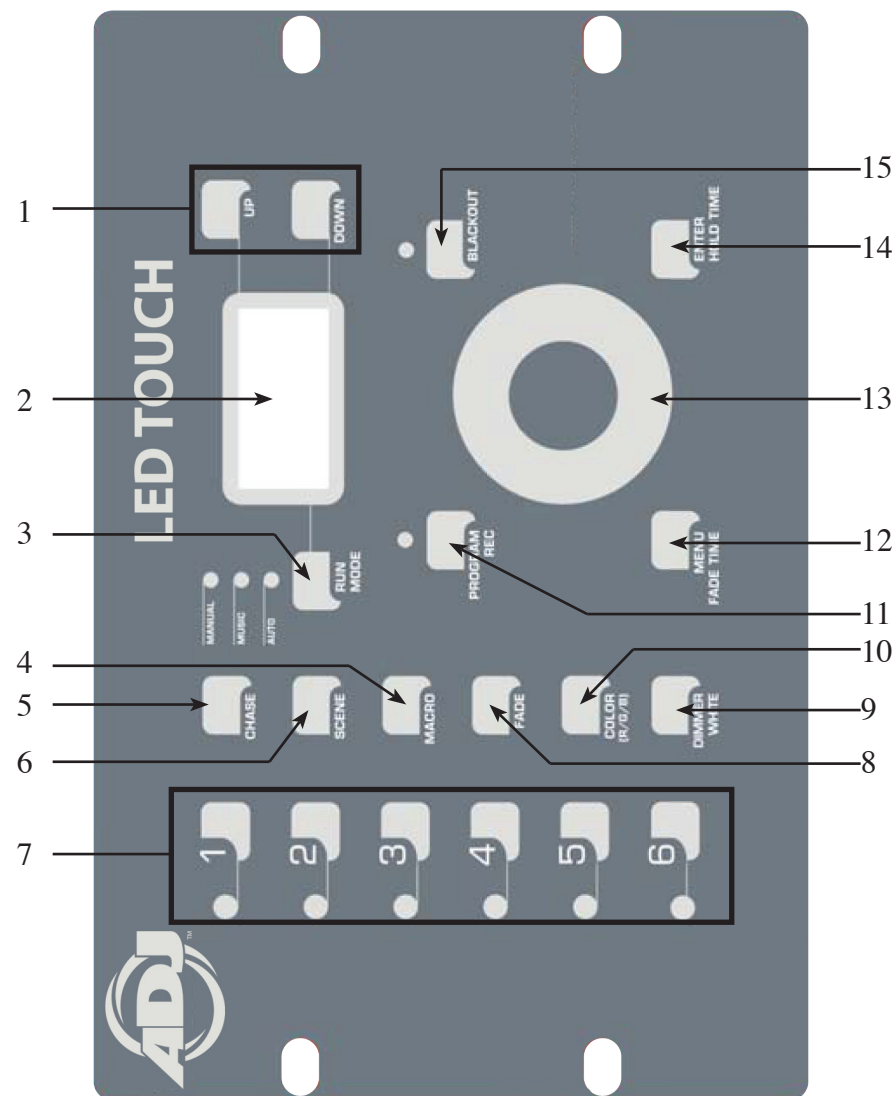The LED Touch™ carries a one year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty you must provide a copy of your proof of purchase invoice. Please contact American DJ® customer support for a R.A. number.
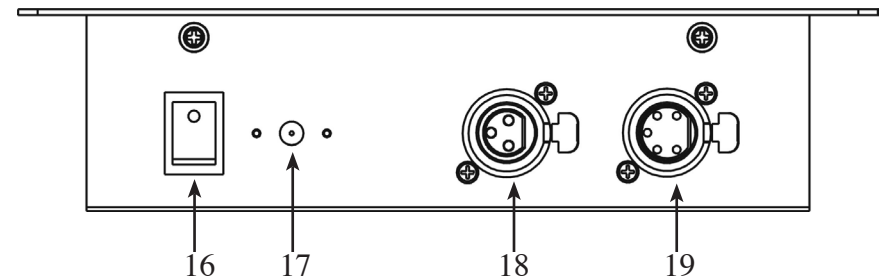
1. UP AND DOWN BUTTONS - These buttons are used to adjust the DMX values.

2. LED WINDOW - Displays values and settings depending on the chosen function.

3. RUN MODE - Used to select manual mode, sound active mode, or auto mode. The LEDs located next to the button will let you know what mode is currently active.

4. CHASE - Use this button to run or save a chase.

5. MACRO - There are 24 macros, the fade time and wait time is adjustable.

6. SCENE - Used to store Scenes in program mode or playback your scenes in playback mode. Every Chase has 30 scenes.

7. FIXTURE BUTTONS - Used to select any or all 6 fixtures.

8. FADE - This button will let you begin to set your fade time.

9. DIMMER/WHITE - This button will let you adjust the dimmer.

10. COLOR(R/G/B) - This button will let you choose a built-in color.

11. PROGRAM/REC - Used to enter program mode and record.

12. MENU/FADE TIME - Use this button to enter the menu and set a fade time of a macro.

13. JOG WHEEL - Use the jog wheel to adjust values and other functions.

14. ENTER/HOLD TIME - Use this button to select programs in the menu and set a hold time of a macro.

15. BLACKOUT - Activates and deactivates blackout mode.

16   17   18   19

16. POWER SWITCH - Switches the power on or off.

17. DC INPUT - Accepts a DC 9V, 500 mA minimum, power supply.

18. DMX OUT - Used to send DMX signal to fixtures or Packs.

19. LED-T-FC - Connect the LED-T-FC to this input (Not Included).

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® LED Touch. Be sure to only use the included power adapter supplied with 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): DMX controller and unit require a approved DMX-512 110 Ohm Data cable 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 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.

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.
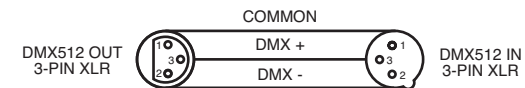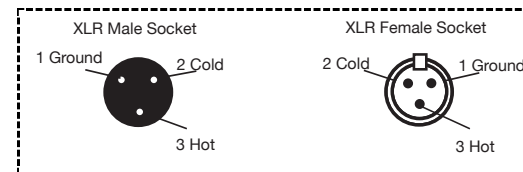
```
                          COMMON
DMX512 OUT    [3    DMX +         1]    DMX512 IN
3-PIN XLR     [2    DMX -       3 2]    3-PIN XLR
```
Figure 2

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

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		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

PROGRAM A CHASE:
You can save 24 chases max, and each chase can include up to 30 scenes.
NOTE: CHASES 1-6 ARE BUILT-IN CHASES THAT YOU SHOULD NOT EDIT OR DELETE.

1. Enter Program Mode. Hold the PROGRAM/REC button (11) for 3 seconds, the PROGRAM/REC LED will start blinking, indicating that Program mode is active.

2. Press the CHASE button, and then press either the UP or DOWN buttons or turn the JOG WHEEL, to select the chase number.

3. Press the SCENE button, and then press either the UP or DOWN buttons or turn the JOG WHEEL to select the scene number.

4. Press the DIMMER button, the LCD will display "CXX SNXX/" DIM XXX", press either then UP or DOWN buttons or turn the JOG WHEEL, to adjust the dimmer.
Note: You should set the dimmer to open or full on (default) or there will be no LED output.

5. Select your desired fixtures, 1-6, that you would like to operate.

6. Select your desired effect, by pressing either COLOR, FADE, or MACRO.

COLOR - Choose built-in color by using the UP or DOWN buttons or turning the jog wheel.

FADE - Use the jog wheel to adjust the fade speed (0s-90m).

MACRO - Select one of 24 macros, and adjust the fade time or hold time. Press MENU/FADE TIME to adjust the fade time, or press ENTER/HOLD TIME to set the hold time.

7. Once you have chose your desired effect press the DIMMER button to select your desired intensity.

8. Press the PROGRAM/REC button to store the scene. If the Program/Rec and Blackout LEDs blink 3 times, the save was succesfull. The display will show "CXX SXX/STORE OK", and automatically go to the next scene to be set.

9. Repeat steps 3-8 to set more scenes.

10. When you are finished setting up your desired chase, press and hold the PROGRAM/REC button for 3 seconds to exit the program.

RUNNING A CHASE:

1. Turn on the LED Touch, and it will enter its last running mode or timing mode directly.

2. There are 3 function modes: Auto Mode, Manual Mode, and Timing Mode.

A. Auto Mode - Auto Mode is the default mode. Press the CHASE button, and then press either the UP or DOWN buttons or turn the JOG WHEEL to select a chase, it will run automatically and the LCD will display "CXX SNXX/AUTO".

B. Manual Mode - Press the CHASE button, and then press either the UP or DOWN buttons or turn the JOG WHEEL to select a chase.
To enter Manual mode press the SCENE button. The LCD will display "CXX SNXX/MANUAL". You can now move through the Scenes using the UP or DOWN buttons or the JOG WHEEL.
To switch to another Chase, press the CHASE button, then choose your desired chase and press the SCENE button to reenter Manual mode.

C. Music Mode - The Chase will run to the beat of music.

3. You can press the BLACKOUT button at anytime to enter Blackout mode and stop light output immediately.

1. Press the CHASE button, and then press either the UP or DOWN buttons or turn the JOG WHEEL to select a chase.

2. Enter Manual mode by presssing the SCENE button. The LCD will display "CXX SNXX/MANUAL". You can now find your desired Scene using the UP or DOWN buttons or the JOG WHEEL.

1. Press either the COLOR, FADE, or MACRO buttons to enter Manual mode.

2. Select your desired fixtures, 1-6, that you would like to operate.

3. Select your desired effect, by pressing either COLOR, FADE, or MACRO.

COLOR - Choose built-in color by using the UP or DOWN buttons or turning the jog wheel.

FADE - Use the jog wheel to adjust the fade speed (0s-90m).

MACRO - Select one of 24 macros, and adjust the fade time or hold time. Press MENU/FADE TIME to adjust the fade time, or press ENTER/HOLD TIME to set the hold time.

4. In COLOR, FADE, or MACRO mode, you can press the DIMMER button to adjust.

When this mode is activated, the DMX signal will be cut, and the light will run its own internal program.

1. Hold the BLACKOUT button for 3 seconds to enter Blackout mode. The LCD will display "STAND ALONE" with the Blackout LED blinking. The lights will now run the last mode it was set to.

Example: Before the light was connected to the controller, the light was running in sound active mode. When the the controller goes to the "Stand Alonde" mode, sound active mode will begin to run again.

2. Press the BLACKOUT button again to exit Blackout mode

In Menu mode you can set the date, time, clock, delete a chase, chase by time, erase memory, lock keyboard, and DMX configuration.

1. To enter Menu mode press the MENU/FADE TIME button for 3 seconds.

2. To exit Menu mode press the MENU/FADE TIME button.

In this submenu you can set the date. The date is displayed as Year-Month-Day.
Note: "XX" represents a displayed number.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "1. SET DATE" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "DATE SUN /XX-XX-XX" (Year-Month-Day) with the cursor under year. Press the ENTER/HOLD TIME button, and the year will begin to blink.

4. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the year to the current year, and then press the ENTER/HOLE TIME button to store the change.

5. Press the UP or DOWN buttons, or turn the JOG WHEEL to move the cursor to the "month" setting. Press the ENTER/HOLD TIME button, and the month will begin to blink.

6. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the month to the current month, and then press the ENTER/HOLE TIME button to store the change.

7. Press the UP or DOWN buttons, or turn the JOG WHEEL to move the cursor to the "day" setting. Press the ENTER/HOLD TIME button, and the day will begin to blink.

8. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the day to the current day, and then press the ENTER/HOLE TIME button to store the change.

9. Press the UP or DOWN buttons, or turn the JOG WHEEL until "STORE/DATE SET" is displayed, press the ENTER/HOLD TIME button save and exit, or press the MENU/FADE TIME button to exit to the main menu without making any changes.

In this submenu you can set the time.
Note: "XX" represents a displayed number.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "2. SET TIME" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "TIME /XX:XX:XX" (Hour-Minute-Second) with the cursor under "hour". Press the ENTER/HOLD TIME button, and the hour will begin to blink.

4. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the hour to the current hour, and then press the ENTER/HOLE TIME button to store the change.

5. Press the UP or DOWN buttons, or turn the JOG WHEEL to move the cursor to the "minute" setting. Press the ENTER/HOLD TIME button, and the minute will begin to blink.

6. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the minute to the current minute, and then press the ENTER/HOLE TIME button to store the change.

7. Press the UP or DOWN buttons, or turn the JOG WHEEL to move the cursor to the "seconds" time setting. Press the ENTER/HOLD TIME button, and the second will begin to

blink.

8. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the second, and then press the ENTER/HOLE TIME button to store the change.

9. Press the UP or DOWN buttons, or turn the JOG WHEEL until "STORE TIME SET" is displayed, press the ENTER/HOLD TIME button save and exit, or press the MENU/FADE TIME button to exit to the main menu without making any changes.

In this submenu you can set a start up time.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "3. SET CLOCK" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "CLOCK SET: SUN" with "SUN" blinking indicating to set the day.

4. Press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the day, and then press the ENTER/HOLE TIME button to confirm.

5. The LCD will display "CLOCK /SUN:1", press the UP or DOWN buttons, or turn the JOG WHEEL to adjust the desired timing; 1 to 3, this means that can set 3 timings a day. Press the ENTER/HOLE TIME button to confirm.

6. The LCD will display "ON: SUN/XX:XX:XX". Press the UP or DOWN buttons, or turn the JOG WHEEL to move the cursor to your desired number, and then press the ENTER/HOLD TIME button. The number will begin to blink.

7. Use the UP or DOWN buttons, or the JOG WHELL adjust

the number then press the ENTER/HOLD TIME button again to confirm.

8. Use the UP or DOWN buttons, or the JOG WHEEL to adjust the hour, minute, and seconds. When your done, press the ENTER/HOLD TIME button to store the ON time.

9. Turn the JOG WHEEL so that "OFF: SUN /XX:XX:XX" is dis played.

10. Use the UP or DOWN buttons, or the JOG WHEEL to adjust the day, hour, minute, and seconds. When your done, press the ENTER/HOLD TIME button to store the OFF time.

NOTE: Timing is done on a weekly cycly, if the OFF time that is set is before the ON time that is set, the timing will be not work.

11. Turn the JOG WHEEL or press the DOWN button, to go to the next page, the LCD will display "CHASE /[X]".

12. Press the ENTER/HOLD TIME button, the chase number will begin to blink. Use the UP or DOWN button, or JOG WHEEL to scroll to your desired chase, press the ENTER/HOLD TIME button to confirm your desired chase.

13. Press the DOWN button, or use the JOG WHEEL to go to the final page. The LCD will display "CLOCK /[OFF]".

14. If you press the ENTER/HOLD TIME button, the display will begin to blink, use the UP or DOWN buttons, or JOG WHEEL to adjust the setting, either ON or OFF. Press the ENTER/HOLD TIME button to confirm.

15. Press the DOWN button or use the JOG WHEEL to scroll to the next page. The LCD will display "STORE /SUN1 SET", press the ENTER/HOLD TIME button to confirm all settings. If you are successful, the Program/Rec LED and Blackout LED will blink 3 times.

16. Follow the steps again to set other timings.

NOTE: Never set the same timings!

In this submenu you can delete a desired chase.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "4. DELETE CHASE" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "DELETE CHASE 07", "07" is blinking. Use the UP or DOWN buttons, or JOG WHEEL scroll through the chases.

4. When you have found the chase you would like to delete, press the ENTER/HOLD TIME button.

5. The LCD will display "DELETE /NO", "NO" is blinking. Press the UP button or use the JOG WHEEL so that "YES" is now diplayed. Press the ENTER/HOLD TIME button to delete the chase.

6. Repeat steps 3-5 to delete more chases.

In this submenu you can set the chases to run by either the chase time or scene time. The chase time is set when in chase mode using the MENU/FADE TIME button or ENTER/HOLD TIME button. The scene time using the same buttons while setting your scene in scene mode, see Program A Chase.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "5. CHASE BY TIME" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "RUN TIME BY CHASE", "BY CHASE" is blinking. Use the UP or DOWN buttons, or JOG WHEEL to display either "BY CHASE" or "BY SCENE".

4. When you have made your selection, press the ENTER/ HOLD TIME button to confirm.

In this submenu you can erase the memory.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "6. ERASE MEMORY" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "ERASE /[NO]", "NO" is blinking. Press the UP button or use JOG WHEEL to display "YES".

4. Press the ENTER/HOLD TIME button to erase the memory. The LCD will display "PLEASE WAIT...", 5 seconds later all LEDs will blink 3 times, indicating the erase was successful.

In this submenu you can lock the keyboard to prevent any accidental changes..

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "7. LOCK KEYBOARD" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "LOCK/[DISABLE", "DISABLE" is blinking. Press the UP button or use JOG WHEEL to display "ABLE".

4. Press the ENTER/HOLD TIME button to lock the keyboard.

NOTE: The keyboard will lock automatically when you set Lock Keyboard to "ABLE". A lock icon will appear in the LCD, and

all buttons are locked. You can unlock the buttons by pressing buttons 1, 3, & 6 at the same time until the unlock icon is displayed in the LCD. If you want to lock the keyboard again automatically, press the ENTER/HOLD TIME button until the LCD displays the unlock icon, then press buttons 1, 3, & 6 at the same time to lock it.

In this submenu you can set the DMX Configuration.

1. Enter the Menu mode by pressing the MENU/FADE TIME button for 3 seconds.

2. Press the UP or DOWN button or turn the JOG WHEEL until "8. DMX CONFIG" is displayed, press the ENTER/HOLD TIME button.

3. The LCD will display "CONFIG /[RGBD/S]", "RGBD/S" is blinking. Press the UP button or use JOG WHEEL to choose your desired setting. Choose between RGBD/S, RGBD, RGBW, or RGB.

RGBD/S - This mode is used for lights that have a DMX setup with Channel 1 is Red, Channel 2 is Green, Channel 3 is Blue, and Channel 4 is Dimmer/Strobe.
RGBD - This mode is used for lights that have a DMX setup with Channel 1 is Red, Channel 2 is Green, Channel 3 is Blue, and Channel 4 is Dimmer.
RGBW - This mode is used for lights that have a DMX setup with Channel 1 is Red, Channel 2 is Green, Channel 3 is Blue, and Channel 4 is White.
RGB - This mode is used for lights that have a DMX setup with Channel 1 is Red, Channel 2 is Green, and Channel 3 is Blue.

4. Once you have figured out your desired DMX configuration press the ENTER/HOLD TIME button to confirm.

The LED Touch is used to control units with 3 & 4 channels, so

when you operate more than one unit, please set the addresses for the first six units as shown below:
DMX Modes: RGBD/S, RGBD, RGBW, & RGB

Units	1	2	3	4	5	6
Addresses	1	5	9	13	17	21

2 Year Limited Warranty

MANUFACTURER'S LIMITED WARRANTY

A.   American DJ, Inc. hereby warrants, to the original purchaser, American DJ and American Audio products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). 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 you must obtain a Return Authorization number (RA#) before sending back the product. Contact American DJ, Inc. Service Department at 800-322-6337. Send the product only to the American DJ, Inc. 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, Inc. 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 it's original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American DJ, Inc. 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, Inc. concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ, Inc. factory unless prior written authorization was issued to purchaser by American DJ, Inc.; 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, Inc. will replace defective parts at its expense with new or refurbished parts, 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, Inc. 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, Inc. 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. 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, Inc. 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, Inc. be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

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

Specifications

POWER SUPPLY:	DC 9-12V, 500mA min.
DMX CHANNELS:	24 DMX Channels
INPUT/OUTPUTS:	DMX Out
	3-Pin Neutrik Chassis Connector
	5-Pin Connector
AUDIO TRIGGER:	Built-In Microphone
DIMENSIONS:	220mm(L) x 146mm(W) x 48mm(H)
	8.6" (L) x 5.8" (W) x 1.8" (H)
WEIGHT:	1.76Lbs./ 0.8Kgs.
WARRANTY:	1 Year (365 Days)

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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