

# RGB 3C

LED CONTROLLER



## User Instructions

### RGB 3C

### General Information

**Unpacking:** Thank you for purchasing the RGB 3C by American DJ®. Every RGB 3C 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:** The RGB 3C small, lightweight, very easy to use, 3-channel RGB LED controller. The RGB 3C is designed to control any 3 channel RGB fixture. The RGB 3C has a sound active mode, program mode, auto run, and static color mode. It also features RGB faders so that you can create your own unique color. This controller is the ideal control solution for D.J.'s, small night clubs, and bars that want a simple LED controller to run the show.

**Customer Support:** American DJ® provides a toll free 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.americandj.com](http://www.americandj.com) for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2941

E-mail: [support@americandj.com](mailto: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.

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

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.

- 9 Static Colors
- RGB Faders To Create Desired Color
- 10 Factory Programs
- Auto, Program, Color, and Sound Active Operation Modes
- Adjustable Program Speed
- Adjustable Sound Sensitivity
- Strobing
- Hold Button Locks the Controller and Pauses Current Scene

The VioRoll LED carries a 2 year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase and warranty. You may also register your product online at [www.americandj.com](http://www.americandj.com). 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.

**Power Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® RGB 3C. The American DJ® RGB 3C is 120v only. Only use the included power supply to power RGB 3C.

**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.

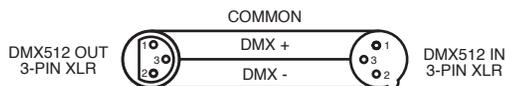


Figure 2

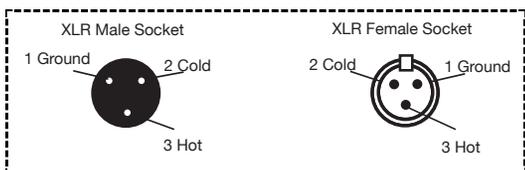


Figure 3

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

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

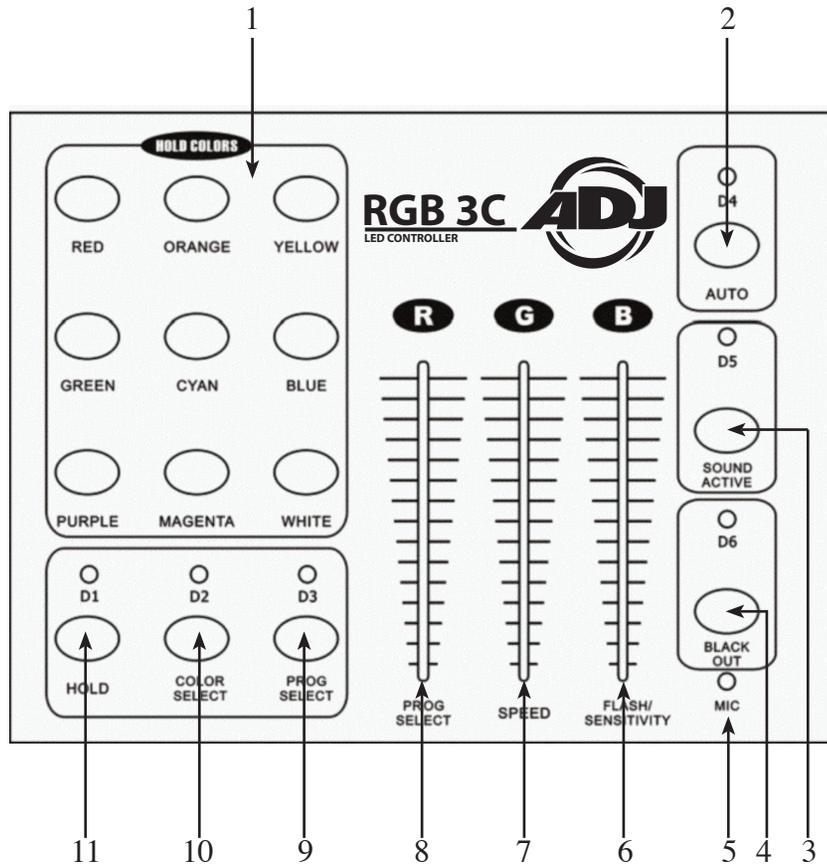


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

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

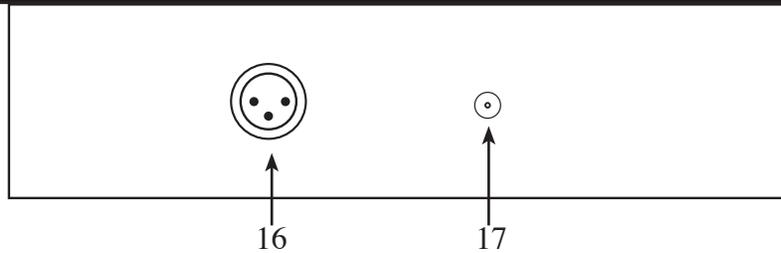
3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use



1. **STATIC COLOR** - This button will let you choose a built-in color.
2. **AUTO PROGRAM** - Pressing this button will activate the auto program, the speed of the program can be adjusted using the G/SPEED FADER (7).
3. **SOUND ACTIVE MODE** - Pressing this button will activate the sound active mode, the sensitivity of the sound active mode can be adjusted using the B/FLASH/SENSITIVITY FADER (6).
4. **BLACKOUT** - Activates and deactivates blackout mode
5. **MIC** - This microphone receives external low frequencies to trigger the unit in Sound-Active mode. This microphone is designed to receive low frequency sounds only, tapping on the microphone and high pitch

sounds may not trigger the unit.

6. **B/FLASH/SOUND SENSITIVITY FADER** - This fader has three functions.
  - This fader can be used to control the blue LEDs intensity in COLOR SELECT mode.
  - In AUTO MODE or PROGRAM SELECT MODE it can be used to activate strobe and control the speed of the strobe.
  - In SOUND ACTIVE MODE the fader can control the sound sensitivity.
7. **G/PROGRAM SPEED FADER** - This fader has two functions.
  - This fader can be used to control the green LEDs intensity in COLOR SELECT mode.
  - In AUTO MODE or PROGRAM SELECT MODE the fader can control the speed of the running program.
8. **R/PROGRAM SELECT FADER** - This fader has two functions.
  - This fader can be used to control the red LEDs intensity in COLOR SELECT mode.
  - In PROGRAM SELECT MODE the fader is used to search through the different programs. The PROGRAM SELECT BUTTON must be active before you can use this fader to search through the programs.
9. **PROGRAM SELECT BUTTON** - Use this button to activate the PROGRAM MODE. Use the PROGRAM SELECT FADER (8) to search through the different programs.
10. **COLOR SELECT** - Press this button to activate the COLOR MODE. When this mode is active you can press one or two of the 9 Color Buttons or use the faders to create your own color to remain static.
11. **HOLD BUTTON** - When this button is active all buttons and faders will be inactive.



16. DMX OUT - Used to send DMX signal to the compatible LED fixtures.

17. DC INPUT - Accepts a DC 9V~12V, 300mA minimum, power supply.

**Sound Active Mode:**

1. Press the SOUND ACTIVE button and the corresponding LED above the button will light.
2. Use the B/FLASH/SENSITIVITY fader to adjust the sound sensitivity level.

**Auto Mode:**

1. Press the AUTO button and the corresponding LED above the button will light.
2. Use the G/SPEED fader to adjust the running speed of the Auto program.
3. Use the B/FLASH/SENSITIVITY fader to activate strobe and adjust the rate of the strobe.

**Program Select Mode:**

1. Press the PROG SELECT button and the corresponding LED above the button will light.
2. Use the G/SPEED fader to adjust the running speed of the Auto program.
3. Use the B/FLASH/SENSITIVITY fader to activate strobe and adjust the rate of the strobe.

**Color Mode:**

1. Press the COLOR SELECT button and the corresponding LED above the button will light.
2. Press any of the 9 color buttons or use the RGB faders to make your own desired color.

	R/PROGRAM SELECT FADER PROGRAMS
0-13	RED
14-27	GREEN
28-41	BLUE
42-55	YELLOW
56-69	PURPLE
70-83	CYAN
84-97	WHITE
98-111	RED DREAMING
112-125	GREEN DREAMING
126-139	BLUE DREAMING
140-153	YELLOW DREAMING
154-167	PURPLE DREAMING
168-181	CYAN DREAMING
182-195	WHITE DREAMING
196-209	SEVEN COLOR JUMPING
210-223	SEVEN COLOR DREAMING
224-237	AUTO RUN
238-255	SOUND ACTIVE
	<b>G/PROGRAM SPEED FADER</b>
0-255	PROGRAM SPEED SLOW - FAST
	<b>B/STROBE/SOUND SENSITIVITY FADER</b>
0-3	OFF
4-255	STROBING SLOW-FAST
0-7	OFF
8-255	SENSITIVITY LOW - HIGH

NOTICE: The B/Strobe/Sound Sensitivity Fader has two functions. When Sound Active mode is running, the fader will control the sound sensitivity level. When Program mode or Auto mode is running the fader will activate and control strobing, if strobing is desired.

## 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 its 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, 300mA min.
POWER CONSUMPTION:	3.6W
OUTPUT:	3-Pin XLR
AUDIO TRIGGER:	Built-In Microphone
DIMENSIONS:	221mm(L) x 140mm(W) x 63mm(H) 8.7" (L) x 5.5" (W) x 2.5" (H)
WEIGHT:	1.8Lbs./ 0.8Kgs.
WARRANTY:	2 Year (730 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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