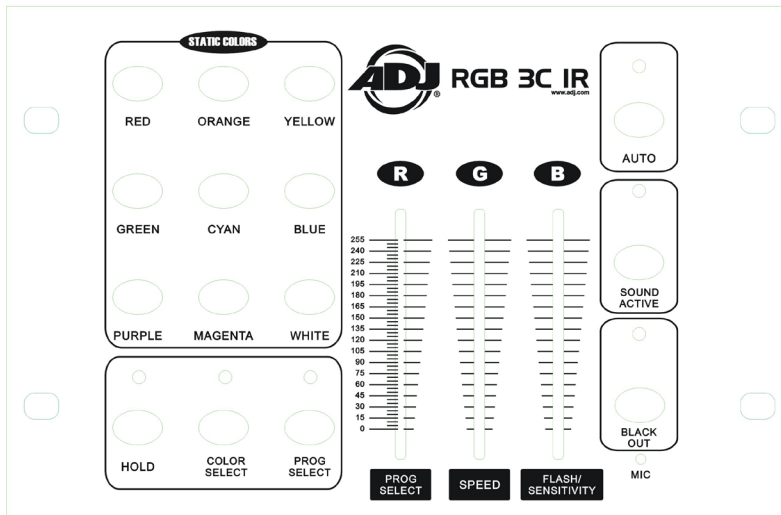




RGB 3C IR



User Instructions

©2015 ADJ Products, LLC all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ADJ Products, LLC logo and identifying product names and numbers herein are trademarks of ADJ Products, LLC. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ADJ Products, LLC brands and product names are trademarks or registered trademarks of their respective companies.

ADJ Products, LLC and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

Unpacking: Thank you for purchasing the RGB 3C IR by ADJ Products, LLC. Every RGB 3C IR 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 IR small, lightweight, very easy to use, 3-channel RGB LED controller. The RGB 3C IR is designed to control any 3 channel RGB fixture. The RGB 3C IR 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: ADJ Products, LLC 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.adj.com for any comments or suggestions. 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

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
- ADJ LED RC2 Compatible (Remote Included)

The RGB 3C IR carries a 1 year (365 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. 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 ADJ 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 ADJ RGB 3C IR. The ADJ RGB 3C IR is 120v only. Only use the included power supply to power RGB 3C IR.

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): Your DMX controller require a standard 3-pin XLR connector 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 pro 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.

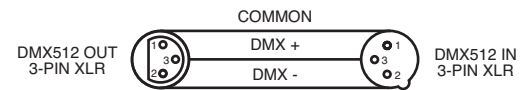


Figure 2

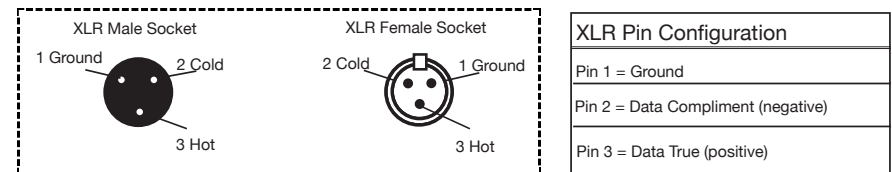


Figure 3

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.

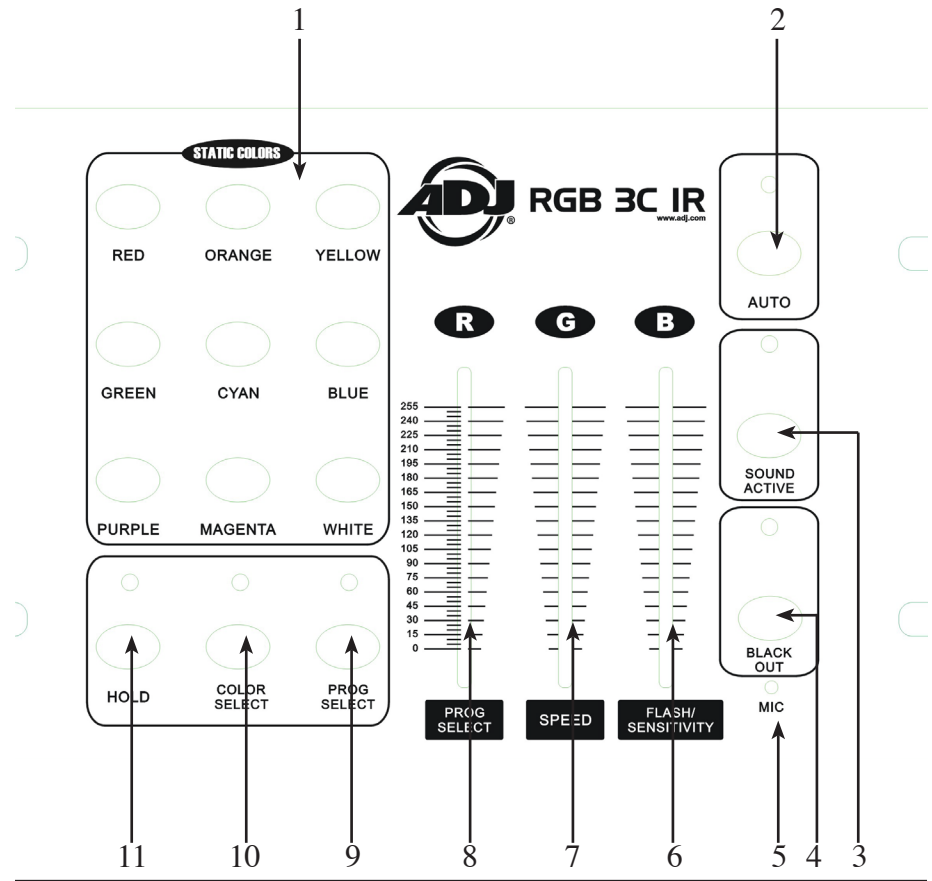


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

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 (D4)** - 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 (D5)** - 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 (D6)** - 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 (D3) - Use this button to activate the PROGRAM MODE. Use the PROGRAM SELECT FADER (8) to search through the different programs.
10. COLOR SELECT (D2) - 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 (D1) - 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.
18. IR RECEIVER SENSOR INPUT - Input for the included IR receiver sensor.

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, GREEN, YELLOW 3 COLOR DREAM
14-27	BLUE, PURPLE, CYAN 3 COLOR DREAM
28-41	WHITE, RED, BLUE 3 COLOR DREAM
42-55	GREEN, BLUE, CYAN 3 COLOR DREAM
56-69	YELLOW, PURPLE, RED 3 COLOR DREAM
70-83	PURPLE, GREEN, WHITE 3 COLOR DREAM
84-97	YELLOW, CYAN, BLUE 3 COLOR DREAM
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
G/PROGRAM SPEED FADER PROGRAM SPEED SLOW - FAST	
0-255	
B/STROBE/SOUND SENSITIVITY FADER	
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.

The **ADJ LED RC2** infrared remote has many different functions that can help you control your RGB 3C IR. To control the RGB 3C IR, plug the included IR receiver into IR receiver input located on the rear of the controller. You must aim the remote at the IR sensor and be no more than 30 feet away.

BLACKOUT - Pressing this button will blackout any fixture being controlled at the time (and not in a HOLD mode). When blackout is active, the LED above the BLACKOUT button will light. Press the button again to deactivate blackout.

HOLD - At anytime press the DMX MODE button, then press button #1. The LED above the HOLD button will light, and lock the current operation. To unlock the current operation, press the DMX MODE button, then press button #0. The LED above the HOLD button will turn off letting you know that it is unlocked.

SELECT PROG - Pressing this button will cycle among Static Color mode, Programs mode, and Auto Run mode. Each press of the button will switch to the next mode.

- **Program Select Mode** - When the controller is set to Program Select mode, the LED above the PROG SELECT button (D3) will glow. Use the “+” & “-” buttons to select 1 of 17 programs. Press the SPEED button, and use the “+” & “-” buttons to adjust the program running speed. Press the FLASH button to activate strobing, and use the “+” & “-” buttons to adjust the flash speed.
- **Auto Run Mode** - When the controller is set to Auto Run mode, the LED above the AUTO button (D4) will glow. Press the SPEED button, and use the “+” & “-” buttons to adjust the auto run speed. Press the FLASH button to activate strobing, and use the “+” & “-” buttons to adjust the flash speed.
- **Static Color Mode** - When the controller is set to Static Color mode, the LED above the COLOR SELECT button (D2) will glow. Use the “+” & “-” buttons or 1-9 number buttons to find your desired static color. You can also use the R/G/B buttons and use the “+” & “-” buttons to adjust the output intensity.

SOUND ACTIVE MODE - Press the SL/SA button to activate Sound Active mode. The LED above the button will glow indicating that your

are in Sound Active mode. You can adjust the sound sensitivity using the FLASH/SENSITIVITY fader.

FLASH - Press this button to activate the strobing. The LED on the controller above the FLASH button will glow indicating that strobing is active. You can control the flash rate by pressing the “+” and “-” buttons. Press this button again to deactivate strobing.

MANUFACTURER'S LIMITED WARRANTY

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC 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—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC 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, ADJ Products, LLC 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 ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; 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, ADJ Products, LLC 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 ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC 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 ADJ Products, LLC 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 ADJ Products, LLC 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 ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- **Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excluding laser diodes which have a 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding motors, PCB boards, and power supplies, which have a 1-year (365 day Limited Warranty) batteries which have a 180 day limited warranty). Only the L.E.D.s carry a 2-year warranty (excluding StarTec Series which carries a 90 Day Limited Warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty** (excluding faders and tact switches)

Specifications

POWER SUPPLY:	DC 9-12V, 300mA min.
POWER CONSUMPTION:	3.6W
OUTPUT:	3-Pin XLR
AUDIO TRIGGER:	Built-In Microphone
DIMENSIONS:	220mm(L) x 140mm(W) x 63mm(H) 8.75" (L) x 5.5" (W) x 2.5" (H)
WEIGHT:	1.8Lbs./ 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.

ADJ Products, LLC
6122 S. Eastern Ave. Los Angeles, CA 90040 USA
Tel: 323-582-2650 / Fax: 323-725-6100
Web: www.adj.com / E-mail: info@americandj.com

A.D.J. Supply Europe B.V.
Junostraat 2
6468 EW Kerkrade
Netherlands

Follow Us On:



facebook.com/americandj
twitter.com/americandj
youtube.com/adjlighting

service@adjgroup.eu / www.adj.eu
Tel: +31 45 546 85 00 / Fax: +31 45 546 85 99