

User Instructions

Ruby Royal

General Introduction

Unpacking: Thank you for purchasing the Ruby Royal by American DJ®. Every Ruby Royal 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. *PLEASE recycle the shipping carton whenever possible.*

Introduction: The Ruby Royal projects unique red, blue, and magenta laser patterns. The Ruby Royal has three operating modes; sound active mode, show mode, or it can be controlled via DMX. The Ruby Royal can operate as a stand alone fixture, or in a Master/Slave configuration. This unit is suitable for theaters, studios, retail stores, and other similar locations. *For best results use fog or special effects smoke to enhance the beams projections.*

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 operation. 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

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 carefully read and understand the instructions in this manual thoroughly before attempting to operate 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.

CAUTION IMPORTANT! When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

- 150mW Red Laser & 150mW Violet Blue Laser
- 6 Channel DMX Control
- 3 Operating Modes - Sound Active, Show Mode, & DMX Control
- 20 Laser Patterns
- Digital Display for Address and Function Setting
- UC3 Controller (Not Included)
- Run as Stand Alone unit or in a Master-Slave Configuration
- Power Cord Daisy Chain up to 18 units max. See page 16

The unit should be mounted using a mounting clamp (not provided), affixing it to the mounting bracket that is provided with the unit.

Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times the unit's weight. Also always use a safety cable that can hold 12 times the weight of the unit when installing the fixture.

The equipment must be installed by a professional, and it must be installed in a place where it is out of the reach of people's grasp.

The Ruby Royal carries a 90 day 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.



Safety Issues: This unit may “pop” the fuse if the maximum allotted load of 2 amps is reached.

- 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.
- 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. Do not attempt to operate this unit if the power cord has been frayed or broken.
- 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.
- 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.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power cords should be routed so they are not likely to be walked on, pinched by items placed upon or against them.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 19 for cleaning details.
- Heat -The appliance 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 unit.
 - C. The unit has been exposed to rain or water.
 - D. The unit does not appear to operate normally or exhibits a marked change in performance.

NON-INTERLOCKED HOUSING WARNING

The Ruby Royal contains high power laser devices internally. **Do not** open the laser housing, due to the potential exposure to unsafe levels of laser radiation. The laser power levels, if the unit is opened, can cause instant blindness, skin burns and fires.

**STOP AND READ ALL LASER SAFETY DATA
OPERATION INSTRUCTIONS AND LASER SAFETY**

The light source emitted from this product can potentially cause eye injury if not set up and used properly. The light source emitted from a laser is very different from any other light sources with which you may be aware of. Laser light is thousands of times more concentrated than any light from any other kind of light source. This concentration of light can cause instant eye injuries, primarily by burning the retina (the back of your eyeball containing cells that are sensitive to light). Even if you cannot feel “heat” from a laser beam, it can still potentially injure or blind you or your audience. Even very small amounts of laser beam light are potentially hazardous even at long distances. Laser eye injuries can be sustained faster than you can blink.

Do not think that because this laser splits the laser beam into hundreds of beams and that the laser beam is scanned out in high speed, that an individual laser beam is safe for eye exposure. This laser uses dozens of milliwatts of laser power (Class 3B levels internally) before it splits into multiple beams (Class 3R levels). Many of the individual beams are potentially hazardous to the eyes.

Do not think that because the laser light is moving, it is safe. This is not true. Nor, do the laser beams always move. Since eye injuries can occur instantly, it is critical to prevent even the smallest possibility of any direct eye exposure. In the laser safety regulation, it is not legal to aim Class 3R lasers in areas which people can get exposed. This is true even if it is aimed below people’s faces, such as on a dance floor.

Do not operate the laser without first reading and understanding all safety and technical data in this manual.

Always set up and install all laser effects so that all laser light is at least 3 meters (9.8 feet) above the floor on which people can stand.

After setting up, and before public use, test laser to ensure proper function. Do not use if any defect is detected. Do not use if laser emits only one or two laser beams rather than dozens/hundreds, as this could indicate damage to the diffraction grating optic, and could allow emission of higher laser levels above Class 3R.

Do not point lasers at people or animals. Never look into the laser aperture or laser beams.

Do not point lasers in areas in which people can potentially get exposed, such as uncontrolled balconies, etc.

Do not point lasers at highly reflective surfaces, such as windows, mirrors and shiny metal. Even laser reflections can be hazardous.

Never point a laser at aircraft, this is a federal offense.

Never point un-terminated laser beams into the sky.

Do not expose the output optic (aperture) to cleaning chemicals.

Do not use laser if the laser appears to be emitting only one or two beams.

Do not use the laser if the housing is damaged, the housing is open, or if the optics appear damaged in any way.

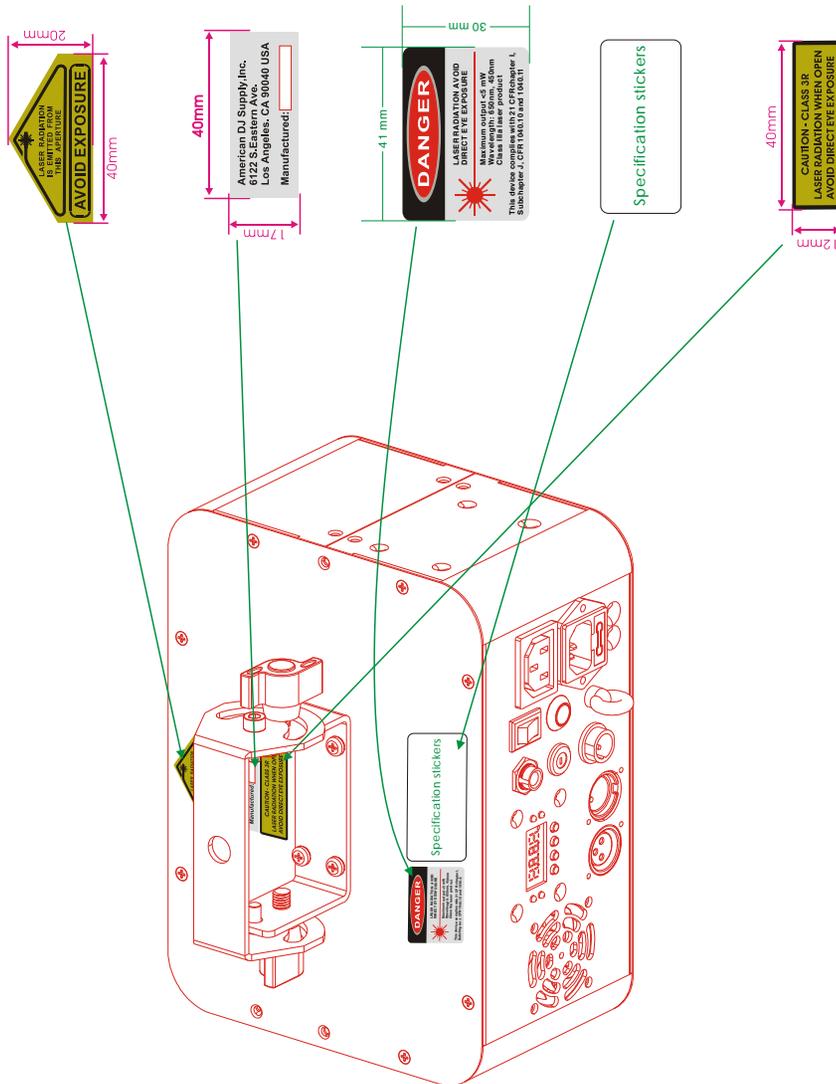
Never open the laser housing. The high laser power levels inside of the protective housing can start fires, burn skin and will cause instant eye injury.

Never leave this device running unattended.

The operation of a class 3R laser show is only allowed if the show is controlled by a skilled and well- trained operator, familiar with the data included in this manual.

The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.

Always use proper lighting safety cables when hanging lights and effects overhead.



Power Supply: The American DJ® Ruby Royal contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

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 Ruby Royal can be controlled via DMX-512 protocol. The Ruby Royal is a 6 channel DMX unit. The DMX address is set electronically using the controls on the rear panel of the unit. Your unit and your DMX controller 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



Figure 1

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.

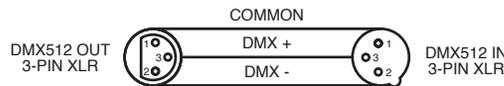


Figure 2

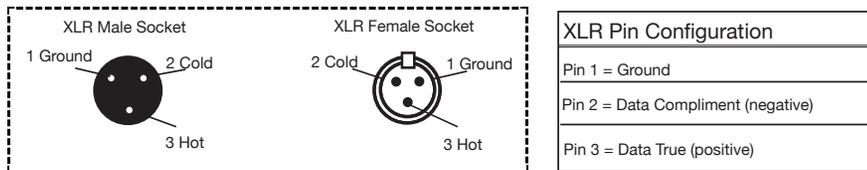


Figure 3

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.

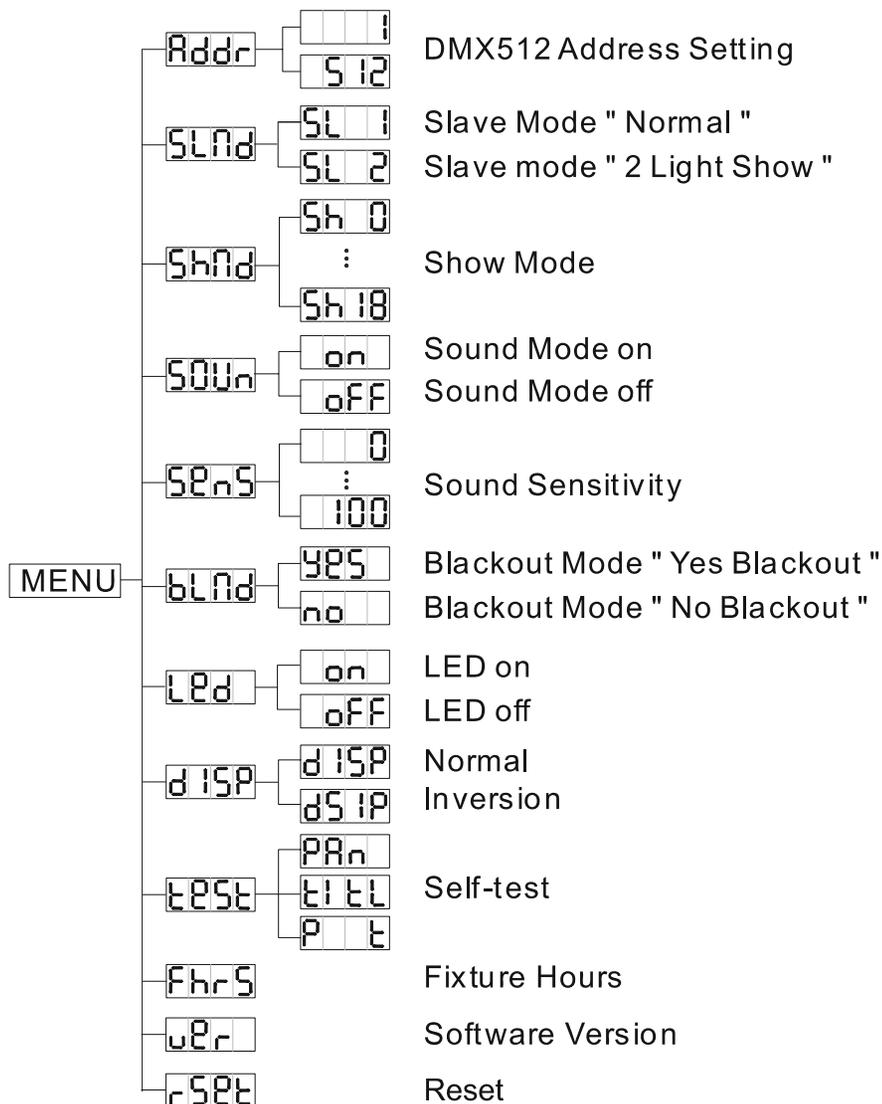


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN2 (DMX-) and PIN3 (DMX+) of the last fixture.

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



ADDR - DMX Address Setting via control board -

1. Press the MENU button until "ADDR" is displayed, press ENTER.
2. "X" will now be displayed, "X" represents the displayed address. Press the UP or DOWN buttons to find your desired address.
3. Press ENTER to confirm, then connect your DMX controller. To exit without making any adjustments press the MENU button.

NOTE: If after you connect your DMX controller the unit does not fall into DMX mode, press and hold the MENU button for at least 3 seconds.

SLND - Set a unit as a slave in a master/slave configuration.

1. Press the MENU button until "SLND" is displayed, press ENTER. Either "SL 1" or "SL 2" will be displayed.
2. Press the UP or DOWN buttons until your desired setting is displayed, press ENTER to confirm. To exit without making any adjustments press the MENU button.

SHND: SH 0 - SH 18 - Show modes 0-18. Show Mode can run with or without sound active mode activated.

1. Press the MENU button until "SHND" is displayed, press ENTER.
2. "SH X" will now be displayed, "X" representing a number between 0-18. Shows 1-18 are preprogrammed shows, while Show 0 is random show mode. Press the UP or DOWN buttons to find your desired show.
3. Press ENTER to confirm, and then press and hold the MENU button for at least 3 seconds to activate. To exit without making any adjustments press the MENU button. When show mode is activated, you can change the show without have to go through steps 1 & 2.

SOUN - In this mode you can run in sound active mode.

1. Press the MENU button until "SOUN" is displayed, press ENTER.
2. Either "ON" or "OFF" will now be displayed. Press the UP or DOWN

buttons to select one or the other.

3. When you have made your selection, press the ENTER, and then press and hold the MENU button for at least 3 seconds to activate. To exit without making any adjustments press the MENU button.

SENS - Sound sensitivity control.

1. Press the MENU button until "SENS" is displayed, press ENTER.
2. The display will show a number between 0-100. Press the UP or DOWN buttons to adjust the sound sensitivity. 0 being the least sensitive and 100 the most sensitive.
3. Press the ENTER button to confirm. To exit without making any adjustments press the MENU button.

BLND - This will control blackout

1. Press the MENU button until "BLND" is displayed, press ENTER.
2. Either "YES" or "NO" will now be displayed. Press the UP or DOWN buttons to select one or the other.
3. Press the ENTER button to confirm.

LED - With this function the LED display will turn off after 2 minutes.

1. Press the MENU button until "LED" is displayed, press ENTER.
2. Either "ON" or "OFF" will now be displayed. Press the UP or DOWN buttons to select "ON" to keep the LED display on at all times, or "OFF" to allow the LED display to turn off after 2 minutes. Press any button to turn on the LED display again.
3. Press ENTER, and then press and hold the MENU button for at least three seconds to confirm. To exit without making any adjustments press the MENU button.

DISP - This function will "flip" the LED display 180°.

1. Press the MENU button until "DISP" is displayed, press ENTER.
2. Press ENTER to "flip" the display. Press ENTER to "flip" it again. Press ENTER when you have decided on your desired display setup. To exit without making any adjustments press the MENU button.

TEST - This function will allow you to test the pan & tilt functions.

1. Press the MENU button until "TEST" is displayed, press ENTER.
2. Either "PAN", "TILT" or "PT" will be displayed. Use the UP or DOWN buttons to scroll to the function you would like to test and press ENTER. The function will now run a self test. Press the MENU button to exit.

FHRS - With this function you can display the running time of the unit.

1. Press the MENU button until "FHRS" is displayed, press ENTER.
2. The running time of the fixture will now be displayed. Press the MENU button to exit.

VER - This will display the software version

1. Press the MENU button until "VER" is displayed. Press the ENTER button and the software version will be displayed.
2. Press the MENU button to exit.

RSET - Use this function to reset the unit.

1. Tap the MENU button until "RSET" is displayed, press ENTER.
2. The fixture will now reset.

CAUTION IMPORTANT! When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

Operating Modes: *The Ruby Royal has three different operating modes.*

Universal DMX Control: This function allows you to use a Elation® universal DMX-512 controller to control the individual lasers, patterns, rotation, movement, and zoom. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Ruby Royal is a six channel DMX fixture. See pages 17-18 for detailed description of the DMX values and traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 8-10 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller's faders to control the various DMX fixture traits. This will allow you to create your own programs.
4. Follow the instruction on page 11 to set the DMX address.
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.

Sound Active Mode (Stand Alone or Master-Slave): This mode allows either single unit or several units linked together, to run to the beat of the music.

1. Press the MENU button until "SOUND" is displayed, and press ENTER.
2. Press the UP or DOWN buttons so that "ON" is displayed, and press ENTER to confirm and then hold MENU for at least 2-3 seconds.
3. To adjust the sound sensitivity press the MENU button until "SENS" is displayed and press ENTER. Use the UP or DOWN buttons to adjust sensitivity.
4. The optional *UC3 Controller* (not included) may be used to control different functions including blackout. See page 18 for UC3 controls and functions.

Show Mode (Stand Alone or Master-Slave): This mode allows a single unit or several units linked together, to run your desired preprogrammed show.

1. Press the MENU button until "SHOW" is displayed, and press ENTER.
2. Press the UP or DOWN buttons until you find your desired show, press ENTER to confirm and then hold MENU for at least 2-3 seconds.
3. The optional *UC3 Controller* (not included) may be used to control different functions including blackout. See page 18 for UC3 controls and functions.

Master-Slave Configuration: This function will allow you to link up to 16 units together and operate without a controller. The units will be sound activated. 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. Using approved DMX data 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. 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. For longer cable runs we suggest a terminator at the last fixture.
2. Set your Master unit to your desired operating mode.
3. On the slave units press the MENU button until "SLND" is displayed, and press ENTER. Choose either "SL 1" or "SL 2" and press ENTER. See page 12 for more info.
4. The slave units will now follow the Master unit.

With this feature you can connect the fixtures to one another using the IEC input and output sockets. The quantity that can be connected is 18 fixtures maximum. After 18 fixtures you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.

Ruby Royal		DMX Traits
Channel	Value	Function
1	0 - 7	<u>RED LASER</u> OFF
	8 - 15	ON
	16 - 131	LASER DASH EFFECT
	132 - 247	DOT ON LINE EFFECT
	248 - 255	ON
2	0 - 7	<u>BLUE LASER</u> OFF
	8 - 15	ON
	16 - 131	LASER DASH EFFECT
	132 - 247	DOT ON LINE EFFECT
	248 - 255	ON
3	0 - 12	<u>PATTERNS</u> PATTERN 1
	13 - 25	PATTERN 2
	26 - 38	PATTERN 3
	39 - 51	PATTERN 4
	52 - 63	PATTERN 5
	64 - 76	PATTERN 6
	77 - 89	PATTERN 7
	90 - 102	PATTERN 8
	103 - 115	PATTERN 9
	116 - 127	PATTERN 10
	128 - 140	PATTERN 11
	141 - 153	PATTERN 12
	154 - 166	PATTERN 13
	167 - 179	PATTERN 14
	180 - 191	PATTERN 15
	192 - 204	PATTERN 16
	205 - 217	PATTERN 17
	218 - 230	PATTERN 18
	231 - 243	PATTERN 19
	244 - 255	PATTERN 20

Ruby Royal		DMX Traits
Channel	Value	Function
4	0 - 9	<u>LASER MOVEMENT</u> NO MOVEMENT
	10 - 120	LEFT - RIGHT FAST - SLOW
	121 - 134	NO MOVEMENT
	135 - 245	UP - DOWN SLOW - FAST
	246 - 255	NO MOVEMENT
5	0 - 9	<u>LASER ROTATION</u> NO ROTATION
	10 - 120	COUNTER-CLOCKWISE FAST - SLOW
	121 - 134	NO ROTATION
	135 - 245	CLOCKWISE SLOW - FAST
	246 - 255	NO ROTATION
6	0 - 127	<u>ZOOM</u> ZOOM OUT - ZOOM IN
	128 - 255	ZOOM IN - OUT SLOW - FAST

Ruby Royal		UC3 Control	
Stand By	Blackout the unit		
Function	Dot on line or discontinuous line effect	Show 1~18	Pattern Selection(18 patterns)
Mode	LED OFF	LED ON	LED Blinking

Ruby Royal

Fuse Replacement

Locate and remove the unit's power cord. Once the cord has been removed locate the fuse holder located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder has a built-in socket for a spare fuse be sure not to confuse the spare fuse with active fuse.

Ruby Royal

Cleaning

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external lenses should be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew). In heavy use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp beam output.

Ruby Royal

Trouble Shooting

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

No laser output from the unit;

1. Be sure you have turned "ON" the unit.
2. Be sure the external fuse has not blown. The fuse is located on the rear panel of the unit.
3. Be sure the fuse holder is completely and properly seated.
4. Be sure the unit is not in blackout mode.

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.

Ruby Royal

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.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- All American Audio Products = 1-year (365 day) Limited Warranty (except V-Plus Series Amplifiers)
- All American Audio V-Plus Series Amplifiers = 3-year (1095 day) Limited Warranty
- American DJ Lighting and American DJ Branded Products = 1-year (365 day) 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 Laser Products, lamps, and Star Tec Series)
- American DJ Laser Products and Star Tec Products = 90-Day Limited Warranty
- American DJ L.E.D. Products = 3-year (1095 day) Limited Warranty (excluding motors which have a 1-year (365 day Limited Warranty)

Model: Ruby Royal

Voltage:	100-240V, 50/60Hz
Power Cord Daisy Chain:	18 Fixtures Max.
Power Consumption:	17W
Lasers:	150mW Red Diode 150mW Violet Blue Diode
Dimensions:	10”(L) x 7.5”(W) x 7.5”(H) 252mm x 190mm x 186mm
Colors:	Red & Violet Blue
Weight:	8 Lbs. / 3.5 kgs.
Fuse:	7 Amp
Duty Cycle:	None
DMX:	6 DMX Channels
Sound Active:	Yes
Working Position:	Any Safe, Secure Position
Warranty:	90 Days

Auto Sensing Voltage: This fixture contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source.

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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