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MAD PAR BULLS IP / 6PK

User Manual

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DOCUMENT VERSION

This document may be updated online to include new product features or enhancements. For the most recent version of this manual, please visit www.jmazlighting.com before starting installation or programming.

Date	Document Version	DMX Channels	Notes
05/01/2025	1.0	4/5/6/14/19	Initial Release

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Conserving electrical energy is crucial for environmental protection. Please turn off all electrical products when they are not in use. To prevent power consumption in idle mode, disconnect all electrical equipment from the power source when not in use. Thank you!

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Retain This Manual for Future Reference

Introduction

Unpacking: Thank you for purchasing the MAD PAR BULLS IP by JMAZ. Every device has been thoroughly tested and shipped in perfect operating condition. Please carefully inspect the shipping carton for any damage that may have occurred during transit. If the carton appears damaged, inspect the fixture for any signs of damage and ensure all necessary accessories are intact. If any damage is found or parts are missing, contact our toll-free customer support number for further instructions. Do not return the unit to your dealer without first contacting customer support.

This product is intended for use by professionally trained personnel only and is not suitable for private use.

Customer Support

For any product-related service and support needs, please contact JMAZ Customer Service. Visit www.jmazlighting.com for questions, comments, or suggestions.

JMAZ GROUP, INC

Monday - Friday, 8:30 am to 5:00 pm PST

Phone: 626-380-0883 | Fax: 626-866-8868

Email: support@jmazlighting.com

Address: 2422 Lee Ave, South El Monte, CA 91733

JMAZ EUROPE GmbH
Email: support@jmazlighting.com
Address: Meiendorfer Amtsweg 5,
22145 Stapelfeld, Germany

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Lighted lamp is HOT!

WARNING – To reduce the risk of FIRE OR INJURY

CAUTION – Use indoors only.

CAUTION – Risk of Electric Shock

CAUTION –Hot surface. Keep away from curtains and other combustible materials.

Turn off the power and allow to cool before replacing lamp.

The lamp gets HOT quickly! Contact only switch/plug when turning on.

Do not touch hot lens, guard, or enclosure

Keep lamp away from materials that may burn.

Do not touch the lamp at any time. Use a soft cloth. Oil from the skin may damage the lamp.

Do not operate the luminaire with a missing or damaged shield.

Do not use if there is any damage to the light or cord insulation. Inspect periodically.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR

This portable luminaire has a polarized plug (one blade is wider than the other) as a feature to reduce the risk of electric shock. This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not alter the plug.

SAVE THESE INSTRUCTIONS

CAUTION! Do NOT expose the fixture or front lens opening to direct sunlight, other lighting, moving head fixtures, or lasers during unpacking, installation, use, or extended idle periods outdoors. Additionally, do not focus a light beam from one fixture directly at another.

CAUTION! To avoid the risk of shock or fire, do NOT expose this unit to rain or moisture.

CAUTION! There are no user-serviceable parts inside this unit. Attempting repairs yourself will void the manufacturer's warranty. If your unit requires service, please contact JMAZ Group, INC.

CAUTION! Do not discard the shipping carton in the trash; please recycle whenever possible.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

A. Lighting Products (Non-LED): 1 Year Limited Warranty (ex: Special Effect Lighting, Intelligent Lighting, UV Lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, etc.)
B. Lighting Products (LED and Lamp): 2 Year Limited Warranty (ex: LED Moving Heads, OSRAM Bulb Moving Heads, Laser Products.)
C. Batteries: 6 Months Limited Warranty (ex: Lithium-Ion Batteries)
D. Non-LED Bulbs: 6 Months or 2,000 hours of Run time (whichever comes first.) (ex: OSRAM bulbs)

MANUFACTURER'S LIMITED WARRANTY

A. JMAZ Group, Inc., hereby warrants, to the original purchaser, JMAZ products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence at the time service is sought out.
B. For warranty service, you must obtain a Return Merchandise Authorization Number (RMA#) before sending back the products – Please contact JMAZ at support@jmazlighting.com. Send the product only to the JMAZ Headquarter. All shipping charges must be Pre - Paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, JMAZ will pay return shipping charges only to a designated point within the United States of America. 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, JMAZ shall have no liability whatsoever for loss of or damage to any such accessories, not 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 JMAZ concluded, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the JMAZ factory unless prior written authorization was issued to purchaser by JMAZ; if the product is damaged because of improper maintenance as set forth in the instruction manual.
D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic checkup. During the period specified above, JMAZ 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 JMAZ under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, as the sole discretion of JMAZ.

E. JMAZ reserves the right to make changes in design and/or improvements to its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by JMAZ in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. 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 JMAZ be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

FCC Statement

This device meets the requirements of FCC Part 15 regulations. Its operation is subject to the following two conditions:

1. It must not cause harmful interference.
2. It must accept any interference received, including interference that could result in undesired operation.

FCC Radio Frequency Interference Warnings & Instructions

Please be aware that any changes or modifications to this product not explicitly approved by the party responsible for compliance may void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device under Part 15 of the FCC Rules. These limits are intended to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can emit radio frequency energy, and if it is not installed and used in accordance with the instructions in this manual, it may cause harmful interference to radio communications. Operating this equipment in a residential area is likely to result in harmful interference, and the user may need to resolve the interference at their own expense.

Europe Energy Saving Notice

Energy Efficiency Matters (EuP 2009/125/EC)

Saving electricity is crucial for protecting the environment. Please turn off all electronic devices when not in use. To prevent power consumption in standby mode, disconnect all equipment from the power source when not in use.

AC Power

Power Requirements: The MAD PAR BULLS IP has an external power supply that requires 12.6V DC, 3 Amps, with a frequency of 50/60Hz.

To ensure proper power supply, refer to the current rating listed on the product's back panel or consult the specifications chart. This rating indicates the average current draw under standard operating conditions.

For accurate circuit breaker sizing, power outlet selection, and wiring requirements, use the listed current value as a guideline. Consider any additional factors, such as the number of fixtures in the installation and the overall electrical load on the circuit.

Safety First: Always connect the product to a protected circuit equipped with a circuit breaker or fuse. Ensure the product is grounded properly to minimize the risk of electrical shock or fire.

Extend Product Life: To reduce unnecessary wear and extend the product's lifespan, disconnect it completely from power—either by turning off the breaker, unplugging it, or switching it off—during periods of non-use.

Battery

The MAD PAR BULLS IP is equipped with a rechargeable lithium battery, allowing for cable-free operation.

Battery Charging: The MAD PAR BULLS IP's battery charges automatically when connected to a power source using the included adapter. Ensure the product is turned off when plugged in but not in use. Charge for no more than 8 hours, then unplug the device to maximize battery life.

Battery Safety: Before charging, read and follow battery safety instructions. Avoid using the MAD PAR BULLS IP on full power mode (100% LED power) while charging or plugged in to prevent overheating.

Battery Life Indicator

The OLED menu screen indicators display the remaining battery life of the fixture.

Battery Run Time

Maximum Fixture Run Time:
14 Hours @ 100% Battery Mode
40 Hours @ 25% Battery Mode

Note: Battery run time will be affected by how many LED diodes are currently turned on.

Battery Charging

The MAD PAR BULLS IP's built-in battery charges automatically when connected to a power source with the included AC charger. If the fixture is plugged in but not in use, make sure it is fully powered off.

Battery Safety Information

- The MAD PAR BULLS IP must NOT exceed 8 hours of plug-in time to a power source. Please ensure you have someone watching the fixtures when they are charging.
- Avoid causing a short circuit in the battery. A short circuit generates a high current, which can lead to overheating, leakage of electrolyte gel, release of harmful fumes, explosion risk, or other types of battery damage.
- Dropping, impacting, striking, bending, or subjecting the unit to other forms of mechanical shock may compromise the battery's performance and longevity.
- The fixture should not be exposed to intense heat or fire. Incineration or disposal of the fixture in a fire is strictly prohibited and may result in an explosion of the battery.
- Please be aware that shipping may result in damage to the fixture. Should any damage be observed, including damage to the metal casing, chemical or electrolyte odors, leakage of the electrolyte gel, or other miscellaneous damage,

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IP65 Disclaimer:

The International Protection (IP) rating system is represented as "IP" (Ingress Protection) followed by two numbers (e.g., IP65), which indicate the level of protection. The first digit (Foreign Bodies Protection) shows the degree of protection against solid particles entering the device, while the second digit (Water Protection) represents the level of protection against water ingress. An IP65-rated lighting fixture is designed and tested to protect against dust ingress (6) and low-pressure water jets from any direction (5).

WARNING: Intended for TEMPORARY outdoor use only.

Maritime/Coastal Environment Installations: A coastal environment refers to areas directly adjacent to the sea and poses a risk to electronics due to exposure to atomized saltwater and humidity. A maritime environment includes any area within 5 miles of a coastal environment.

Not suitable for maritime or coastal environments. Installing this fixture in a marine or coastal area may lead to corrosion or excessive wear, damaging both internal and external components. Any damage or performance problems resulting from such installation will void the manufacturer's warranty.

Maritime installations require specialized preparation and maintenance. Due to the corrosive nature of marine environments, IP ratings designed for freshwater may not be sufficient. Regular maintenance and potential duty-cycles are essential to prevent damage. In humid or cold conditions, condensation can occur internally, necessitating duty-cycles to expel moisture. For permanent outdoor installations, a waterproof dome is highly recommended. Consult the dome manufacturer for specific duty-cycle guidelines.

Important: Not all features are available on every fixture. These instructions may not apply to your specific model. Please contact support for more information.

Exterior Maintenance: Inspect the exterior every 30 days. Ensure the unit is powered off and disconnected. Check the optics for any obstructions on the lens, and clean both the optics and chassis as needed. Schedule future maintenance based on your initial findings, keeping in mind that regular exterior maintenance is required, even if the luminaires are not in use due to their outdoor location. Applying a durable wax to the chassis is recommended to prevent contaminant buildup. Inspect power and data lines for signs of contamination or corrosion, and periodically reapply dielectric grease, especially in coastal environments. If any contamination or corrosion is found, thoroughly clean and/or replace connectors, then reapply dielectric grease. This maintenance should typically be performed

annually or whenever an opportunity arises. To prevent issues, it is recommended to replace both vent valves annually, as the membrane can become contaminated or clogged, leading to improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

Interior Maintenance: Inspect the interior monthly while the unit is powered off.

- Inspect and clean the zoom/focus mechanism. Lubricate linear bearings with Krytox oil as needed, and check belts for wear.
- Inspect and manually rotate all rotating effect wheels, noting any resistance.
- Inspect all remaining rotating belts for wear.
- Inspect, clean, and check the rotation and connections of all fans.
- Inspect the CMY module, manually move flags, and check for resistance. If necessary, clean guide rods and reapply a thin layer of moly lube.
- Clean the interior with low-volume compressed air and optics before reassembling head covers.

While the base has limited moving parts, inspect the pan belt for wear. Always perform an IP test after removing any cover.

There's no fixed replacement schedule for parts like belts, stepper motors, PCBs, or LEDs. Replace them only when necessary. Cooling fans should be replaced proactively at 10,000 hours to maintain optimal cooling and protect internal components. In case a full-service breakdown is needed, please reach out to us at: support@jmazlighting.com.

Important: Only the fixtures are IP65 rated. The flight case and charging bases are not designed for outdoor use or exposure to moisture.

This unit contains no user-serviceable parts. Attempting repairs will void the warranty. Modifications or disregard of safety instructions will also void the warranty.

Never look directly into the light source. Doing so can cause serious eye damage, including blindness. Sensitive individuals may experience epileptic seizures.

Operating Temperature: –10 ° C (14 ° F) To 60 ° C (140 ° F)

Safety Precautions:

- **Keep away from children.**
- **Avoid touching the fixture housing during operation.** Allow it to cool for 15 minutes before servicing.
- **Handle with care.** Avoid shaking or using excessive force.
- **Inspect the power cord.** Do not use if frayed, crimped, or damaged. Replace damaged cords immediately.
- **Do not remove the ground prong.** It's for safety.
- **Do not operate if damaged.**
- **Disconnect power before making connections.**
- **Ensure proper ventilation.** Maintain at least 6 inches (15 cm) of clearance around the fixture.
- **Do not remove the cover.**
- **Use secure mounting.** Use M10 x 25mm hardware and a safety cable for suspended installations.
- **Avoid dimmer packs.**
- **Disconnect during long periods of non-use.**
- **Mount in a stable location.**
- **Route power cords carefully.**
- **Clean as recommended by the manufacturer.**
- **Keep away from heat sources.**

Service: Have the fixture serviced by a qualified technician if:

- The power cord or plug is damaged.
- Objects have fallen into the fixture, or liquids have been spilled on it.
- The fixture is not operating normally or exhibits performance changes.

Protection Class 1: This fixture must be properly grounded. It contains no user-serviceable parts. Attempting repairs yourself will void the manufacturer's warranty. Modifying the fixture or ignoring the safety instructions and guidelines will also void the warranty and exclude any warranty claims or repairs.

Environment: This fixture is designed for use in dry, indoor environments only. Do not expose it to rain, or moisture.

Light Source: Never look directly into the light source, as it can cause retina injury or blindness. Sensitive individuals may experience epileptic shock.

Temperature: The maximum ambient operating temperature is 140°F (60°C), the minimum ambient operating temperature is 14°F (-10°C). Do not touch the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.

Handling: Do not shake the fixture or use brute force when installing or operating it.

Power Cord: Do not operate the fixture if the power cord is frayed, crimped, or damaged. Replace the power cord immediately if damaged, using one with the same power rating. Do not remove or break off the ground prong from the electrical cord, as it reduces the risk of electrical shock and fire in the event of an internal short.

Damage: Do not attempt to operate the unit if it has been damaged in any way. Avoid spilling water or other liquids onto the unit.

Connections: Disconnect from the main power before making any type of connection.

Ventilation: Do not block any air ventilation slots. Ensure all fans and air inlets remain clean and unobstructed. Maintain approximately 6 inches (15 cm) between the fixture and other devices or walls for proper cooling. Mount the unit in an area that allows proper ventilation.

Cover: Do not remove the cover for any reason.

Power Supply: Never plug the unit into a dimmer pack. Disconnect the main power during long periods of non-use. Mount the unit safely and securely. Route power-supply cords to prevent them from being walked on or pinched, especially at the point where they exit the unit.

Cleaning: Clean the fixture only as recommended by the manufacturer.

Heat Sources: Keep the fixture away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Servicing: The fixture should be serviced by qualified personnel if:

- The power-supply cord or plug is damaged.
- Objects have fallen onto, or liquid has been spilled into the fixture.
- The fixture does not operate normally or shows a marked change in performance.
- The fixture has fallen or been subjected to extreme handling.

UV Warning

Risk Group 3 - Ultraviolet (UV) Radiation Hazard

This fixture emits high-intensity UV light from the UV color filter.

Wear protective eyewear and clothing. Limit prolonged exposure to the UV color filter.

Avoid white clothing and UV paints on skin. Maintain a minimum distance of 11 feet (3.3 meters) from the fixture to prevent direct eye or skin exposure.

Do not operate with damaged or missing covers.

Never look directly into the UV light or use optical instruments to view it.

Individuals with eye conditions, sunlight sensitivity disorders, or those taking photosensitive medication may experience discomfort from exposure to the UV light."

Additional Note: It's essential to include a warning about potential eye and skin damage from UV radiation, emphasizing the importance of protection.

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Specifications:

Light Source

- 20W (1 x 20W) RGBA LED
- LED Life Expectancy: 50,000 hrs

Color System

- RGBA Color Mixing 8/16 bit
- CCT: 2300K to 8500K

Body

- Die-Cast Aluminum and Steel Structure

Electronics

- Strobe Shutter: 1-25Hz
- Dimming Modes: 4

Electrical

- Input Voltage: 100 V – 240 V AC, 50/60 Hz
- Power Consumption: 20W
- PWM: 1.5KHz
- Battery Voltage: 11.1V
- Battery Capacity: 5,200 mAH, 57.72 Wh/hour
- Charger: 12.6V, 3A ***UL Listed***
- Rechargeable Battery Type: Lithium Ion ***UL Listed***

Optics

- Advanced Lens Optic: 10° Beam Angle
- Diffuser Angle (Included): 20° Beam Angle

Dynamic Effect

- Max 14 Hour Battery Life / 40 Hour In Battery Saving Mode
- Charging Time: 4 Hours
- Selectable Battery Saving Mode: 25%, 50%, 75%, 100%
- 73 Preset Color Programs
- 50 Advanced Sound Active Mode
- 72 Auto / Fade Built-In Programs
- Stand Alone Color Mixing
- Electronic Dimmer
- Fading/Jumping Macros Light Change And Jump
- Shutter/Strobe: Electronic
- Strobe Rate: 0-25 Hz
- Preset Color Temperature
- 4 Favorite Color Customization Triggered via DMX / IR Remote

Control

- Control Protocol: Wireless DMX, IR Remote
- Personalities: 4/5/6/14/19 CH DMX Modes
- OLED Graphical Display

Physical

- Adjustable Tilt Base: 0-40 Degree
- Cooling: Fanless

Certification / Qualifications

- RoHS, CE, FCC
- IP Rating: IP65
- Operating Temperature: - 10° C (14° F) to 60° C (140° F)

Box Content

MAD PAR BULLS IP Single Box:

- 1 x 20 Degree Diffuser
- 1 x External Charger
- 1 x User Manual
- 1 x QSG
- 1 x IR Remote

MAD PAR BULLS IP 6PK:

- 1 x IP65 Waterproof Injection Mold Case (Holds 6 Units)
- 6 x Mad Par BULLS IP
- 6 x 20 Degree Diffuser
- 6 x A/C Charger
- 3 x IR Remote
- 1 x 6in1 Power Charger
- 1 x User Manual
- 1 x QSG

Item Dimension & Weight

MAD PAR BULLS IP Single Unit:

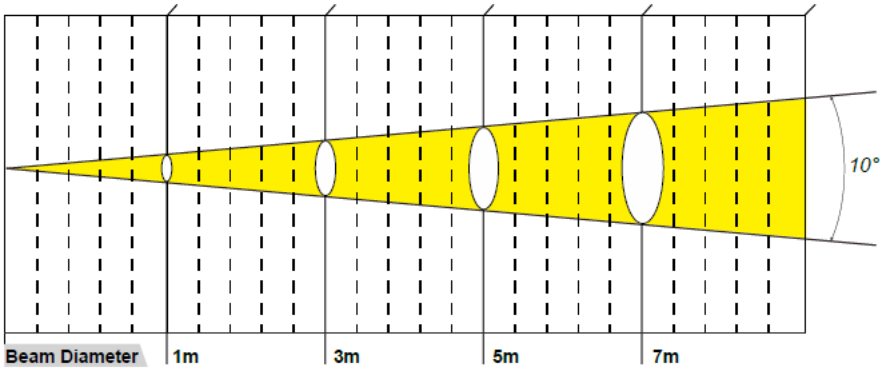
- Dimensions: 7.2” x 5.9” x 3”
- Weight: 4.4lbs
- SKU: JZ1044
- UPC: 618528599106

MAD PAR BULLS IP 6PK:

- Dimensions: 22” x 17” x 8.5”
- Weight: 32lbs (w/ Units)
- Weight: 9lbs (Case Only)
- SKU: JZ1045
- UPC: 618528599113

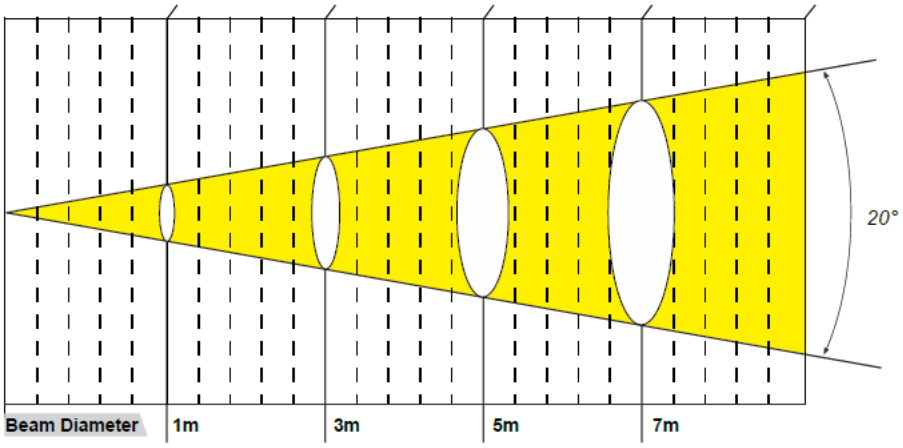
Photometric Beam Angle Data *10° Beam Angel*

R	2580	289	75	42
G	3320	363	120	56
B	639	72	23	11
A	2810	314	102	28
RGBA	8650	976	318	149 (LUX)



Photometric Beam Angle Data *20° diffuser*

R	371	39	14	7
G	439	47	17	8
B	136	9	3	1.6
A	581	44	16	7
RGBA	1240	133	48	24 (LUX)



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Installation Guidelines

Qualification: Only qualified individuals should install this fixture.

Compliance: Installation must comply with all local, national, and international commercial electrical and construction codes and regulations.

Support Structure: The trussing or installation area must support at least 10 times the weight of the fixture and any attached accessories without deformation.

Safety Attachments: The unit must be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Professional Consultation: Before mounting the fixture to any metal truss/structure or placing it on any surface, consult a professional equipment installer to ensure the structure or surface can safely support the combined weight of the fixture, clamps, cables, and accessories.

Operating Temperature: The maximum ambient operating temperature is 140°F (60°C).

Placement: Install fixtures away from walking paths, seating areas, or locations where unauthorized personnel might reach them.

Safety Precautions: Never stand directly below the fixture when rigging, removing, or servicing it.

Overhead Installation: Overhead installations must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold at least 10 times the weight of the fixture.

Experience Required: Overhead mounting requires extensive experience, including calculating working load limits, understanding the installation material, and periodically inspecting all installation materials and the fixture itself. If you lack these qualifications, do not attempt the installation yourself.

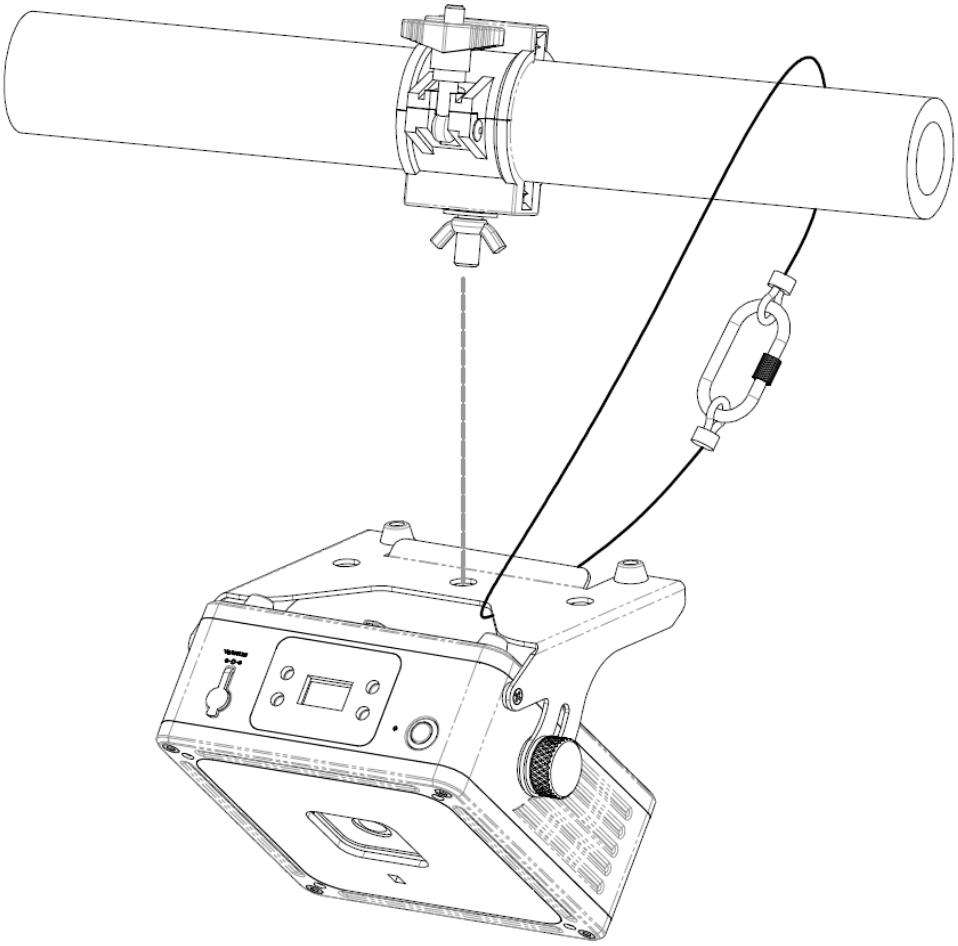
Annual Inspection: The installation should be checked by a skilled professional once a year.

Installation Clamp Mounting

This fixture is equipped with two mounting points on the underside for the attachment of two Omega brackets. Additionally, there are two safety cable loops on the underside, located between the Omega bracket mounting points (refer to the illustration below).

Mounting Instructions:

1. When mounting the fixture to a truss or any other suspended or overhead installation, secure appropriately rated mounting clamps (not included) to each Omega bracket.
2. Ensure that you use two Omega brackets and two mounting clamps to safely support the fixture in a suspended installation.
3. Attach two separate safety cables (Included) of the appropriate weight rating to the provided safety cable loops.



Safety Cable

Always attach a safety cable when installing this fixture in a suspended environment. This precaution ensures that the fixture will not fall if the clamp fails.

Potential Internal Damage from External Light Sources

Exposure to external sources such as direct sunlight, other lighting fixtures, moving head units, and lasers can cause significant internal damage to JMAZ lighting fixtures. This includes potential harm to optics, dichroic color filters, gobos (both glass and metal), prisms, animation wheels, frost filters, irises, shutters, motors, belts, wiring, discharge lamps, and LEDs. Such damage is not exclusive to JMAZ fixtures but is a common risk with lighting equipment from all manufacturers. While it is not possible to eliminate this risk, the following guidelines can help minimize potential damage. For further assistance, please contact JMAZ Service.

Guidelines:

INSTALLATION INSTRUCTIONS

Rigging the device



CAUTION!

PLEASE CONSIDER THE RESPECTIVE NATIONAL NORMS DURING THE INSTALLATION. THE INSTALLATION MUST ONLY BE CARRIED OUT BY A QUALIFIED PERSON.

- The installation of the effect must be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harmful deformation.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope.
- Never stand directly below the device when mounting, removing or servicing the fixture.
- The operator must make sure the safety relating, and machine technical installations are approved by an expert before taking the device into operation for the first time.
- These installations must be approved by a skilled person once a year.
- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Rigging using the omega brackets

Important: This step is very important to ensure safe rigging of the fixture.

- Fix the clamp to the bracket by tightening the nut and bolt to the bracket through the hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the

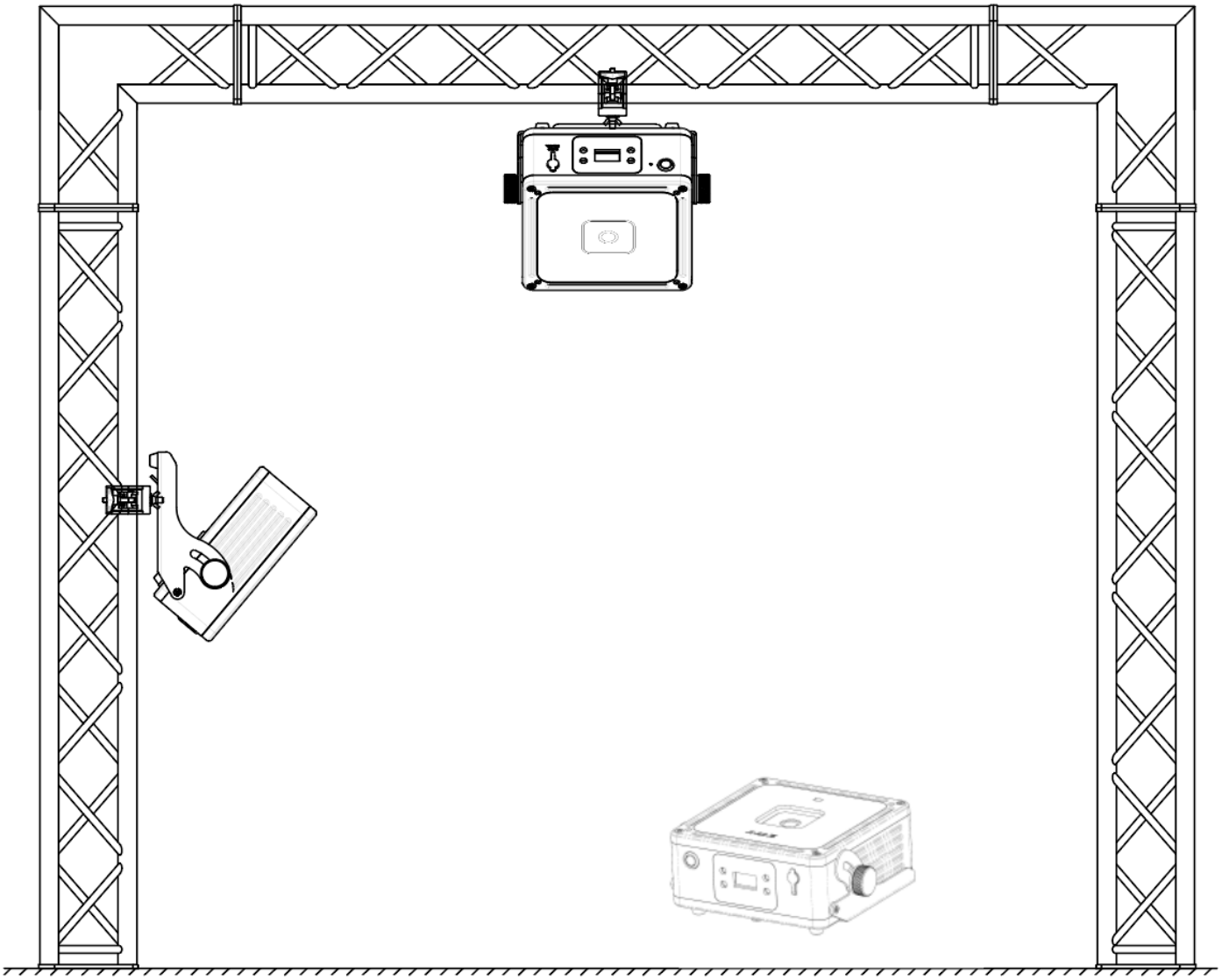
bottom of the device. Tighten the quick-lock fasteners fully clockwise.

- Install the second Omega holder.
- Pull the safety cable through the holes on the bottom of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the safety screw.

Rigging Drawing

Important：Overhead rigging requires extensive experience, including (but not limited to) calculating working load limits, specifying installation/ rigging materials, and periodic safety inspection of all installation material as well as the device. If you lack these qualifications, do not attempt the rigging of this device yourself. Improper installation/ rigging can result in serious bodily injury.

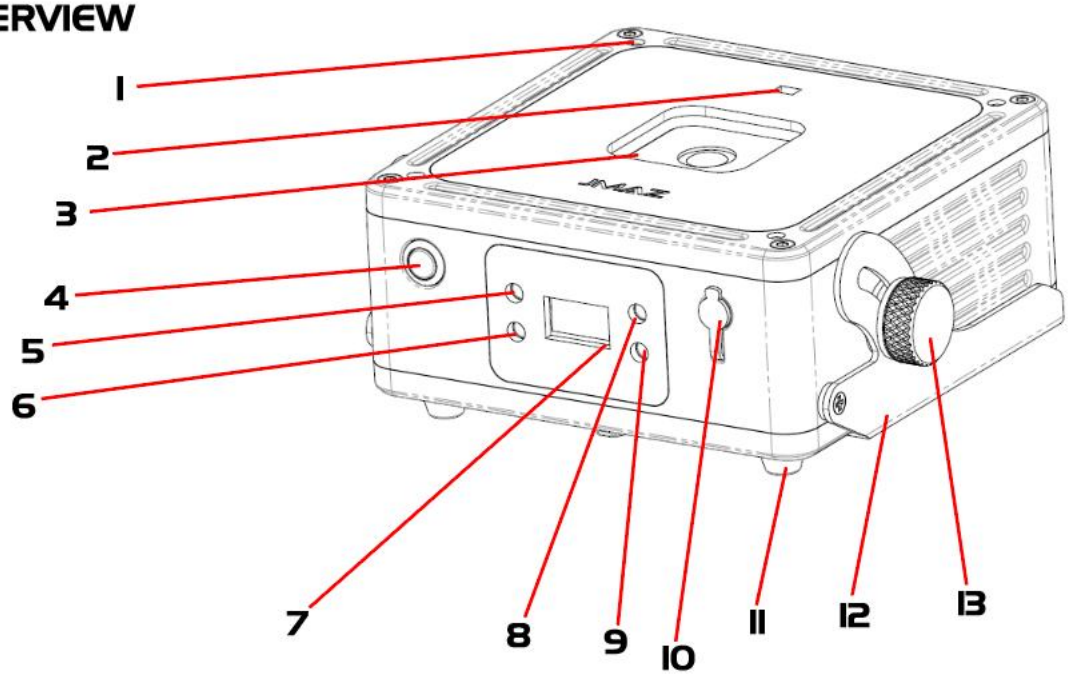
- Be sure this fixture is kept at least 0.1m away from any flammable materials (decoration etc.).
- Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- Rig the projector high enough to provide clearance for people who may walk beneath the beam path or establishing a restricted access area that extends beyond the beam hazard distance.



CONTROL PANEL

The MAD PAR BULLS IP features a display screen with a 5-button control pad, which can be used to easily adjust any device settings.

OVERVIEW



(1) Thread for fixing the diffuser
(2) Infrared sensor
(3) Lens/LED
(4) ON/OFF switch
(5) Menu button
(6) Enter button
(7) OLED display
(8) Up button
(9) Down button
(10) Charger input
(11) Rubber foot
(12) Folding foot
(13) Fixation screw folding foot

System Menu

Main Menu	Sub-Menu	Sub-Menu	Sub-Menu Options	Sub-Menu Options	Description	Default
Address	DMX ADDR <**001**-512>				Set DMX Address 001-512	001
Channel	<4> <5> <6> <14> <**19**>				Channel Mode Selection：4CH, 5CH, 6CH, 14CH, 19CH	14
Color	Color <**01**-73>				Select Preset Color	01
CCT	CCT <**2300K**> <2400K> <2500K> ..... <8500K>				Select Preset Color Temperature, 2300K-8500K. Jumps in 100K intervals	2300K
Favorite	Favorite **Custom01**	**Dimmer** **Red** **Green** **Blue** **Amber**	000-255		Customizable Favorite Colors.	R+B
	Favorite **Custom02**					B
	Favorite **Custom03**					3200K
	Favorite **Custom04**					5600K
Color Pro	Color Pro <**PTY1,L**,R+G+L>	PTY1 <**Jump**/Fade>	Jump/Fade <**0**-255>		Built In Color Programs Jump/Fade for each Color Programs	PTY1
Sound	Sound (1)	Sound <**01**-50>			Advanced Sound Active Mode	Sound 01
	Sensitivity	Sensitivity <0-**100**>			Advanced Sound Active Mode Sensitivity	100
	Speed	Speed <0-**10**>			Advanced Sound Active Mode Speed	10
	Microphone	Microphone Guest Mic **Host Mic**				Host Mic
Manual	Dimmer	<000-**255**>				255
	Strobe	<**000**-255>				000
	Red	<000-**255**>				255
	Green	<000-**255**>				255
	Blue	<000-**255**>				255
	Amber	<000-**255**>				255

Setting	Wireless	Power	Off On		Power on Wireless Features	On
		Mode	W-RCV	UnLink No/Yes	Sets fixture to Receive WDMX Signal	No
			W-SND	Linking No/Yes	Sets fixture to Transmit WDMX Signal	No
			WiDMX	WiDMX <01-06>	Sets fixture to WiDMX Protocol	01
			Generic	Generic <01-07>	Sets fixture to Generic Wireless DMX Protocol	01
	Power	<25%> <50%> <75%> <100%>			Power Control Function for Fixture	100%
	Dimmer	<OFF> <Dim 1> <Dim 2> <Dim 3> <Dim 4>			DMX Dimming Delay Setting Selection	OFF
	Host/Guest	Host/Guest <Guest> <Host>			Master and Slave settings	Guest
	Password	LOCK-30s LOCK-60s OFF			Automatic Screen Lock Settings Default Password: UP, DOWN, UP DOWN, ENTER	OFF
	Blcklight	OFF ON			Backlight Settings	ON
	Loss Data	<Hold> <Blackout>			Status for when DMX Signal is Lost	Hold
	Reset	<NO> <YES>			Factory Reset Option	NO
	White Bal.	Red Green Blue Amber	<0-**255**>		White Balance for Fixture	255
	IR Setting	OFF ON			Turns IR Setting On or Off for IR Remote Control.	ON
Battery	XXX%				Shows Current Battery Capacity	
Sys Info	Temp	Temp <xxC>			Shows Current Fixture Temperature	

	Fix Hours	Fix Hours <xxxxH>			Total On Time for fixture in its lifetime.	
	Cur Hours	Cur Hours <xxxxH>			Total On Time for fixture in this session.	
	Software	Software <V1.0>			Shows Current Firmware Version	
ID	ID <**01**-12>				All fixtures under the ID mode will be set as DMX Channel 4. ID 1 = DMX Address 1 ID 2 = DMX Address 5 ID 3 = DMX Address 9 ID 4 = DMX Address 13 ID 5 = DMX Address 17 ID 6 = DMX Address 21 ID 7 = DMX Address 25 ID 8 = DMX Address 29 ID 9 = DMX Address 33 ID 10 = DMX Address 37 ID 11 = DMX Address 41 ID 12 = DMX Address 45	

IR Remote

The MAD PAR BULLS IP comes with an IR Remote that allows a user to cycle through different configurations and settings.

To enable the IR Control function, follow the instructions below:
Press Menu or the Up and Down buttons repeatedly until you see “Setting” on the display.
Press Enter.
Use the Up and Down buttons until you see “IR Setting” on the display.
Press Enter.
Use the Up and Down buttons to select either “ON” or “OFF” to Enable or Disable the IR Function.

IR Remote Control Operations:
Note: To use the IR Remote, please ensure you are pointing the IR Remote to the top of the fixture at the JMAZ Logo.



OFF
To black out the light of the fixture.
Pressing the “Off” Button will turn off the light and put the fixture into standby mode.

ON
To turn on the light of the fixture.
Pressing the “On” Button will turn on the light and activate the fixture.

UP
Pressing the “Up” Button will scroll the menu you are in or will increase the value of the function you are selecting.

DOWN
Pressing the “Down” Button will scroll the menu you are in or will decrease the value of the function you are selecting.

Red (R)
Pressing the “Red (R)” button, will change the light to a static Red color.

Green (G)
Pressing the “Green (G)” button, will change the light to a static Green color.

Blue (B)
Pressing the “Blue (B) button, will change the light to a static Blue color.

White (W)
Pressing the “White (W) button, will change the light to a static White color.

Amber (A)
Pressing the “Amber (A) button, will change the light to a static Amber color.

Cyan (C)
Pressing the “Cyan (C) button, will change the light to a static Cyan color.

Magenta (M)
Pressing the “Magenta (M) button, will change the light to a static Magenta color.

Pink (P)
Pressing the “Pink (P)” button, will change the light to a static Pink color.

Yellow (Y)
Pressing the “Yellow (Y)” button, will change the light to a static Yellow color.

Brightness
Pressing the “Brightness” Button will enter the Dimming setting and will enable you to adjust the brightness of the fixture from 0-100% under the **Manual Mode** only.
Use the Up and Down Button to adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)
Under the Brightness Mode you can also use Buttons 1 – 10 to adjust the brightness from 0-100% in 10% intervals. (Ex. 1 = 10%, 2 = 20% ..10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the Value back to 0.)

Manual
Pressing the “Manual” Button will set the fixture into the Manual Color Mode.
Pressing the Color Buttons (R, G, B, W, A, and C = UV) will set the fixture to the value of the color.
Pressing the R Button will adjust the brightness value of the Red color.

A. Button 1 = 10%, Button 2 = 20% ...10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the brightness of the Red color back to 0.
B. Using the Up and Down Button will adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)

Pressing the G Button will adjust the brightness value of the Green color.

A. Button 1 = 10%, Button 2 = 20% ...10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the brightness of the Green color back to 0.
B. Using the Up and Down Button will adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)

To adjust the values for Blue and Amber, please follow the steps listed above for their respective colors.

DMX
Pressing the “DMX” Button will set the fixture into DMX Mode.

Fave 1, 2, 3, 4
Note: Please see Favorite Custom Color Mixing to program your Favorite Colors.
Pressing Fave 1 will set the fixture to the Favorite Custom Color Number 1 you have programmed in the menu.
Pressing Fave 2 will set the fixture to the Favorite Custom Color Number 2 you have programmed in the menu.
Pressing Fave 3 will set the fixture to the Favorite Custom Color Number 3 you have programmed in the menu.
Pressing Fave 4 will set the fixture to the Favorite Custom Color Number 4 you have programmed in the menu.

Button 1 – 10
Pressing Buttons 1 – 10 will change the value, function, or color depending on the mode you are on.

Host
Pressing the Host Button will set the Fixture to be the “Host” (Master) Light.

Guest
Pressing the Guest Button will set the Fixture to the “Guest” (Slave) Light.

ID
Pressing the ID Button will set the Fixture into the ID Mode.
Pressing Buttons 1 – 10 or the Up and Down buttons will set your desired ID Number to the fixture from ID 1-10.
Note: Button 11 and Button 12 have no function under the ID Mode.

Battery
Pressing the Battery Button will set the fixture into the Battery setting.
Pressing Buttons 1 – 4 will adjust the brightness of the Fixture in 25% intervals.
Button 1 = 25%
Button 2 = 50%
Button 3 = 75%
Button 4 = 100% (By default, the Fixture will be set at 100%)
Note*: Buttons 5-12 have No Function in this setting.
Note**: Decreasing the Brightness in this setting will extend the current battery life for this session depending on usage.

Auto (Total: 72 Auto Programs)
Pressing the Auto Button will set the Fixture into “Auto” Program Mode
Press Buttons 1 – 12 to select your desired Auto Program (1-12 Only)
After the 12th Program, please use the Up and Down Buttons to cycle through other Auto Programs (Programs 13-72)

Auto Mode Number	Program	Buttons
1	PTY1(RGB)	
2	PTY2(CMY)	9
3	PTY3(RGBCMY)	10
4	PTY4(RGBA)	11
5	RBW(RYGCBM)	12
6	RD	

7	RG	
8	RB	1
9	RA	4
10	RY	
11	R,C	
12	RM	
13	R+G+A, B	
14	R+G+A, G	
15	R+G+A, A	
16	R+G+A, Y	
17	R+A, B	
18	R+A, G	5
19	R+A, Y	
20	R+A, A	
21	GD	
22	GB	
23	GA	
24	GY	
25	G,C	
26	GM	2
27	G+B+A, B	6
28	G+B+A, G	
29	G+B+A, A	
30	G+B+A, Y	
31	G+A, B	
32	G+A, G	
33	G+A, Y	
34	G+A, A	
35	BD	
36	BA	
37	BY	
38	BC	
39	BM	7
40	R+G+B, B	
41	R+G+B, G	
42	R+G+B, A	
43	B+A, B	
44	B+A, G	
45	B+A, Y	
46	AD	
47	AY	
48	A,C	
49	AM	
50	YD	
51	YC	
52	YM	3
53	C,D	
54	C,M	
55	C,GA	

56	C,RA	
57	C,BA	
58	MD	
59	M,RA	
60	M,GA	
61	M,BA	
62	RGBA,R	
63	RGBA,G	
64	RGBA,B	
65	RGBA,A	
66	RGBA,C	
67	RGBA,M	
68	RGBA,Y	
69	RGBA,RA	
70	RGBA,GA	
71	RBA,RA	8
72	RBA,C	

CCT (Correlated Color Temperature, 2300K-8500K)
Pressing the CCT Button will set the Fixture into the CCT Mode
Pressing Buttons 1 – 12 will adjust the Preset Color Temperature
Button 1 = 2300K
Button 2 = 3200K
Button 3 = 4000K
Button 4 = 4500K
Button 5 = 5000K
Button 6 = 5600K
Button 7 = 6000K
Button 8 = 6500K
Button 9 = 7000K
Button 10 = 7500K
Button 11 = 8000K
Button 12 = 8500K
Pressing the Up and Down Buttons will adjust the Color Temperature in 100K intervals.

CCT	Button on Remote
2300K	1
2400K	
2500K	
2600K	
2700K	
2800K	

2900K	
3000K	
3100K	
3200K	2
3300K	
3400K	
3500K	
3600K	
3700K	
3800K	
3900K	
4000K	3
4100K	
4200K	
4300K	
4400K	
4500K	4
4600K	
4700K	
4800K	
4900K	
5000K	5
5100K	
5200K	
5300K	
5400K	
5500K	
5600K	6
5700K	
5800K	
5900K	
6000K	7
6100K	
6200K	
6300K	
6400K	
6500K	8
6600K	
6700K	
6800K	
6900K	
7000K	9
7100K	
7200K	
7300K	
7400K	
7500K	10
7600K	

7700K	
7800K	
7900K	
8000K	11
8100K	
8200K	
8300K	
8400K	
8500K	12

Strobe
Pressing the Strobe Button will set the Fixture into the Strobe setting.
Pressing Buttons 1 – 10 will change the value of the Strobe, this will affect the speed in 10% speed intervals. (Ex: 1 = 10%, 2 = 20%,… 10 = 100%)
Note: Button 11 and Button 12 have no function under the Strobe setting.

Fade
Pressing the Fade Button
Pressing the Fade Button will set the Fixture into "Fade" Program Mode
Press Buttons 1 – 12 to select your desired Fade Program (1-12 Only)
After the 12th Program, please use the Up and Down Buttons to cycle through other Fade Programs

Sound
Pressing the Sound Button
Pressing the Sound Button will set the Fixture into "Advanced Sound Active" Program Mode
Press Buttons 1 – 12 to select your desired Sound Program (1-12 Only)
After the 12th Program, please use the Up and Down Buttons to cycle through other Sound Programs

Sense (Sensitivity for Sound Mode)
Pressing the Sense Button will set the fixture into the Sensitivity Setting under the Advanced Sound Active Mode.
Pressing Buttons 1 – 10 will change the value of the Sensitivity, this will affect the Sensitivity in 10% intervals. (Ex: 1 = 10%, 2 = 20%… 10 = 100%)
Using the Up and Down buttons will change the value of the Sensitivity from 0 – 100%
*Note: Button 11 has no function, Button 12 will reset the fixture's current Sensitivity value back to 0.

Speed
Pressing the Speed Button will change the current value of the Fixture depending on the current mode.
Using the Up and Down buttons will change the value of the Speed from 0 - 10
(Ex: 1 = Slowest, 10 = Fastest)
Note: Button 11 has no value, Button 12 will reset the fixture's current Speed value back to 0.

1. Under Auto Mode, Changing the Speed value will change the speed of the auto programs from fast to slow, or slow to fast.
2. Under Sound Mode, changing the Speed value will change the speed of the Sound Program from fast to slow, or slow to fast. (Loud Environments may affect the fixtures' ability to work properly, please adjust the Speed for the most optimal experience.)
3. Under Fade Mode, changing the Speed value will change the speed of the Fade Program from fast to slow, or slow to fast.

Color (Static Preset Colors, Total Preset Colors: 73)

Pressing the Color Button will set the fixture into the Static Preset Color Mode. Use the Color Buttons to set your desired color.
Pressing R will set the fixture to a static Red color.
Pressing G will set the fixture to a static Green color.
Pressing B will set the fixture to a static Blue color.
Pressing W will set the fixture to a static White color.
Pressing A will set the fixture to a static Amber color.
Pressing C will set the fixture to a static Cyan color.
Pressing M will set the fixture to a static Magenta color.
Pressing Y will set the fixture to a static Yellow color.

Pressing Buttons 1 - 12 will set the fixture into Preset Colors
Button 1 = UV
Button 2 = Magenta
Button 3 = Green
Button 4 = Pink
Button 5 = Hot Pink
Button 6 = Purple
Button 7 = Turquoise
Button 8 = Blue
Button 9 = Yellow
Button 10 = Leaf Green
Button 11 = Orange
Button 12 = White
Pressing Up and Down buttons will cycle through the Preset Colors from 1 – 73.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used 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 manufacturers to be linked together and operate from a single controller, if all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. 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. 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 in the DMX chain.

Wireless DMX Settings

1. To turn on/off the Wireless DMX Function, please follow the steps below:
    a. Press the Menu repeatedly until you see Setting.
    b. Press Enter.
    c. Press Up and Down arrows repeatedly until you see “Wireless” show up on the Display.
    d. Press Enter.
    e. Press Up and Down until you see “Power” show up on the Display.
    f. Press Up and Down arrows to select either “ON” or “OFF” to turn On or Off the Wireless

DMX Function.

2. **W-RCV (Wi-MAZ Wireless DMX Receiving Mode)**
    a. Press the Menu repeatedly until you see Setting.
    b. Press Enter.
    c. Press Up and Down arrows repeatedly until you see “Wireless” show up on the Display.
    d. Press Enter.
    e. Press Up and Down until you see “Mode” show up on the Display.
    f. Press Enter.
    g. Press Up and Down arrows until you see “W-RCV” on the Display.
    h. Press Enter.
    i. Press Up and Down arrows in the “UnLink” setting to select “NO” to delete the current connection.
    j. Now you can create a new connection
3. **W-TRN (Wi-MAZ Wireless DMX Transmitting Mode, Creating a New Connection)**
    ***Note: In order to be in Wireless DMX Transmitting Mode, please ensure the light is under the Host(Master) Light. Please see Host/Guest Instructions for more information.**
    a. Press the Menu repeatedly until you see Setting.
    b. Press Enter.
    c. Press Up and Down arrows repeatedly until you see “Wireless” show up on the Display.
    d. Press Enter.
    e. Press Up and Down until you see “Mode” show up on the Display.
    f. Press Enter.
    g. Press Up and Down arrows until you see “W-TRN” on the Display.
    h. Press Enter.
    i. Press Up and Down arrows in the “Linking” setting to select “YES” to establish a connection with the receiver(s).

4. **WiDMX (Wireless DMX Transmitting / Receiving Mode)**
    a. Press the Menu repeatedly until you see Setting.
    b. Press Enter.
    c. Press Up and Down arrows repeatedly until you see “Wireless” show up on the Display.
    d. Press Enter.
    e. Press Up and Down until you see “Mode” show up on the Display.
    f. Press Enter.
    g. Press Up and Down arrows until you see “WiDMX” on the Display.
    h. Press Enter.
    i. Use Up and Down arrows to select from Group 01 – 06.
        i. Group 1 = Red
        ii. Group 2 = Green
        iii. Group 3 = Blue
        iv. Group 4 = Yellow (R+G)
        v. Group 5 = Cyan (G+B)
        vi. Group 6 = Purple (R+G)

5. **Generic (Wireless DMX Transmitting / Receiving Mode)**
    Note: Under the Generic Mode, this Wireless DMX Protocol will be compatible with all generic Wireless DMX Transmitters.
    a. Press the Menu repeatedly until you see Setting.
    b. Press Enter.
    c. Press Up and Down arrows repeatedly until you see “Wireless” show up on the Display.
    d. Press Enter.
    e. Press Up and Down until you see “Mode” show up on the Display.
    f. Press Enter.
    g. Press Up and Down arrows until you see “Generic” on the Display.

h. Press Enter.
i. Use Up and Down arrows to select from Group 01 – 07.
    i. Group 1 = Red
    ii. Group 2 = Green
    iii. Group 3 = Blue
    iv. Group 4 = Yellow (R+G)
    v. Group 5 = Cyan (G+B)
    vi. Group 6 = Purple (R+B)
    vii. Group 7 = White (R+G+B)

Standalone Setup:

Address:
To set the DMX Address on the MAD PAR BULLS IP, follow the instructions below:
Press Menu, or the Up and Down arrows repeatedly until Address shows on the display.
Press Enter
Use Up or Down to select the DMX Address between 1 to 512.
Press Enter once you've chosen your desired DMX Address

Channel:
To set the DMX Channel on the MAD PAR BULLS IP, follow the instructions below:
Press Menu, or the Up and Down arrows repeatedly until Channel shows on the display:
Press Enter
Use Up or Down to select your desired DMX Channel: 4, 5, 6, 14, 19.
Press Enter once you've chosen your desired DMX Channel.

Preset Color-Mode:
To run the MAD PAR BULLS IP on a Preset Static Color, follow the instructions below:
Press Menu, or the Up and Down arrows repeatedly until Color shows up on the Display.
Press Enter
Use Up or Down to select Preset Color from Color 1 to Color 73.
Press Enter once you've chosen your desired color.

CCT Mode:
To run the MAD PAR BULLS IP on CCT Mode, follow the instructions below:
Press Menu, or the Up and Down arrows repeatedly until you see CCT on the Display.
Press Enter
Use Up or Down to select the CCT Color value between 2300K to 8500K.
Press Enter once you've chosen your desired color.

Favorite Custom Color Mixing:
To select between your 4 favorite color options, follow the instructions below:
Press Menu or the Up and Down arrows repeatedly until you see Favorite on the Display.
Press Enter.
Use Up and Down to select between the 4 custom colors you should like to change:

- Favorite Custom 1
- Favorite Custom 2
- Favorite Custom 3
- Favorite Custom 4.

1. Press Enter
2. Use Up and Down to switch between Dimmer Brightness: 0-255.
3. Press Enter once you've chosen your desired value.
4. Use Up and Down to switch between Red Value: 0-255.
5. Press Enter once you've chosen your desired value.
6. Use Up and Down to switch between Green Value: 0-255.
7. Press Enter once you've chosen your desired value.
8. Use Up and Down to switch between Blue Value: 0-255.
9. Press Enter once you've chosen your desired value.
10. Use Up and Down to switch between Amber Value: 0-255.
11. Press Enter once you've chosen your desired value.
12. Repeat the above for Custom Color 2, 3, and 4.
13. Press Enter once you've finished your selections.

Auto-Programs

To set the MAD PAR BULLS IP In Automatic Mode, follow the instructions below:
Press Menu or the Up and Down arrows repeatedly until you see Color Pro on the display.
Press Enter
Use Up and Down buttons to choose your desired colors:

1. PTY1 (RGB)
2. PTY2 (CMY)
3. PTY3 (RGBCMY)
4. PTY4 (RGBA)
5. RBW (RYGCBM)
6. RD
7. RG
8. RB
9. RA
10. RY
11. R, C
12. RM
13. R+G+A, B
14. R+G+A, G
15. R+G+A, A
16. R+G+A, Y
17. R+A, B
18. R+A, G
19. R+A, Y
20. R+A, A
21. GD
22. GB
23. GA
24. GY
25. G, C
26. G, M
27. G+B+A, B
28. G+B+A, G
29. G+B+A, A
30. G+B+A, Y
31. G+A, B
32. G+A, G
33. G+A, Y
34. G+A, A
35. BD
36. BA
37. BY
38. BC
39. BM
40. R+G+B, B
41. R+G+B, G
42. R+G+B, A
43. B+A, B
44. B+A, G
45. B+A, Y
46. AD
47. AY
48. A, C
49. AM
50. YD
51. YC

52. YM
53. C, D
54. C, M
55. C, GA
56. C, RA
57. C, BA
58. MD
59. M, RA
60. M, GA
61. M, BA
62. RGBA, R
63. RGBA, G
64. RGBA, B
65. RGBA, A
66. RGBA, C
67. RGBA, M
68. RGBA, Y
69. RGBA, RA
70. RGBA, GA
71. RGBA, M
72. RGA, C

Press Enter once you've chosen your desired color.
Use Up and Down arrows to select the light to either Fade or Jump.
Press Enter on the desired effect.
Use Up and down arrows to select the speed value from 0-255 for either Fade or Jump.

Advanced Sound Active Mode:

- To enter the Advanced Sound Active Mode, follow the instructions below:
- Press Menu or the Up and Down arrows repeatedly until you see Sound on the Display.
- Press Enter.
- Use Up and Down arrows to select the Sound Program from 1-50.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Sensitivity: 1-100
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Speed: 1-10
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Microphone selection:
- Press Enter
- Use Up and Down arrows to select between Host Mic, and Guest Mic.
- Press Enter once you've found your desired value.
- Press Enter.

Manual Mode:

- To set the custom color on the MAD PAR BULLS IP, follow the instructions below:
- Press Menu, or Up and Down arrows until you see Manual on the display.
- Press Enter.
- On Dimmer, press Enter and select a value between 0-255.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Strobe: 0-255.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Red Color Value: 0-255.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Green Color Value: 0-255.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Blue Color Value: 0-255.
- Press Enter once you've found your desired value.
- Use Up and Down arrows to select the Amber Color Value: 0-255.
- Press Enter once you've found your desired value.

Settings:

- To access the Settings Menu Page, follow the instructions below:
- Press Menu, or Up and Down arrows until you see Setting on the Display.

Power:

- Use Up and Down arrows until you see Power on the Display.
- Press Enter.
- Select from: 25%, 50%, 75%, and 100% to select the level of brightness for the MAD PAR BULLS IP.

Dimmer:

- Use Up and Down arrows until you see Dimmer on the Display.
- Press Enter.
- Use Up and Down arrows to select between: OFF, Dim 1, Dim 2, Dim 3, Dim 4
- Press Enter once you've found your desired selection.

Host/Guest.

- Use Up and Down arrows until you see Host/Guest on the Display.
- Press Enter.
- Use Up and Down arrows to select either from Guest or Host. Guest will be the slave light, and Host will be the Master light.
- Press Enter once you've found your desired selection.

Password:

- Use Up and Down arrows until you see Password on the Display.
- Press Enter.
- Use Up and Down arrows to select between LOCK-30s, LOCK60s, and OFF.
- Press Enter once you've found your desired selection.
  Note: Default Password to unlock the fixture is "UP, DOWN, UP, DOWN" Then Enter.

Backlight:

- Use Up and Down arrows until you see Backlight on the Display.
- Press Enter.
- Use Up and Down arrows to select either OFF or ON.
- Press Enter once you've found your desired selection.

Loss Data:

- Use Up and Down arrows until you see Loss Data on the Display.
- Press Enter.
- Use Up and Down arrows to select either HOLD or BLACKOUT.
- Press Enter once you've found your desired selection.

Reset:

- Use Up and Down arrows until you see Reset on the Display.
- Press Enter.
- Use Up and Down arrows to select between NO and YES.
- Press Enter once you've found your desired selection.

White Balance:

- Use Up and Down arrows until you see White Bal. on the Display.
- Press Enter.
- Use Up and Down to select your desired Color: Red, Blue, or Amber
- Press Enter once you've found your desired selection.
- Use Up and Down arrows to select the Value from 0-255 for the Color.
- Press Enter once you've found your desired selection.

IR Setting:

- Use Up and Down arrows until you see IR Setting is on the Display.
- Press Enter.
- Use Up and Down arrows to select ON or OFF.
- Press Enter once you've found your desired selection.

Battery:

To access the Battery Page, follow the instructions below:

- Press Menu, or Up and Down arrows until you see Battery on the Display.
- Press Enter.
- This will display the current battery level of the light.

System Info:

To access the System Info Page, follow the instructions below:

- Press Menu or Up and Down arrows until you see SYS INFO on the Display.
- Press Enter.
- Use Up and Down arrows to select Temp., this will display the current Temperature of the fixture.
- Press Enter.
- Use Up and Down arrows to select Fix Hours, this will display the total lifetime of the fixture being powered on.
- Press Enter
- Use Up and Down arrows to select Cur Hours, this will display the number of hours the fixture has been powered on during this session.
- Press Enter
- Use Up and Down arrows to select Software, this will display the currently installed firmware version on the fixture.
- Press Enter.

ID:

To access the ID page, follow the instructions below:

- Press Menu, or Up and Down arrows until you see ID on the display.
- Press Enter.
- Use Up and Down arrows to select from 1 – 12.
- Press Enter once you've found your desired selection.

All fixtures under the ID mode will be set as DMX Channel 4 with the pre-assigned DMX to the following ID's:

ID 1 = DMX Address 1
ID 2 = DMX Address 5
ID 3 = DMX Address 9
ID 4 = DMX Address 13
ID 5 = DMX Address 17
ID 6 = DMX Address 21
ID 7 = DMX Address 25
ID 8 = DMX Address 29
ID 9 = DMX Address 33
ID 10 = DMX Address 37
ID 11 = DMX Address 41
ID 12 = DMX Address 45

DMX Traits/Chart

4-channel mode			
Channel	**Value**	**Feature**	**Description**
1	0-255	Red, 0 - 100 %	
2	0-255	Green, 0 - 100 %	
3	0-255	Blue, 0 - 100 %	
4	0-255	Amber, 0 - 100 %	
5-Channel Mode			
Channel	**Value**	**Feature**	**Description**
1	0-4	No Function	
	5-12	Favorite1	
	13-20	Favorite2	
	21-28	Favorite3	
	29-36	Favorite4	
	37-39	R	1
	40-42	G	2
	43-45	B	3
	46-48	R45+G180+B85+A255	4
	49-51	A	5
	52-54	R20+B128	6
	55-57	R255+B50	7
	58-60	R255+G128	8
	61-63	R+G	9
	64-66	R255+B128	10
	67-69	R+B	11
	70-72	R200+G60+B30+A80	12
	73-75	R+A	13
	76-78	R128+G60+B30+A195	14
	79-81	R255+B35	15
	82-84	R+B20	16
	85-87	G255+B128	17
	88-90	G+B	18
	91-93	G255+B20+A85	19
	94-96	G+A	20
	97-99	G255+A128	21
	100-102	R38+G255+B38+A95	22
	103-105	G255+B15	23
	106-108	G60+B215+A100	24
	109-111	B+A	25
	112-114	G110+B255+A255	26
	115-117	B	27
	118-120	R70+G130+B45+A255	28
	121-123	G10+B255	29
	124-126	R110+G160+B60+A20	30
	127-129	R+G+B	31
	130-132	R+G+A	32
	133-135	R185+G255+B30	33

	136-138	R100+G255+B30+A210	34
	139-141	R+B+A	35
	142-144	R50+G59+B255+A255	36
	145-147	R255+B255+A128	37
	148-150	R255+G80+B20	38
	151-153	R255+B20+A255	39
	154-156	R255+G130+B45+A80	40
	157-159	G255+B255+A130	41
	160-162	G255+B255+A110	42
	163-165	G255+B255	43
	166-168	G255+B25	44
	169-171	G255+A100	45
	172-174	R75+G255+B28	46
	175-177	B255+A160	47
	178-180	R180+G135+B255	48
	181-183	R125+G255+B255	49
	184-186	R70+G140+B55+A150	50
	187-189	R150+G200+B180+A70	51
	190-192	R50+G255+B255+A255	52
	193-195	G150+B255+A255	53
	196-198	R140+G255+B35+A175	54
	199-201	R180+G255+B30+A255	55
	202-204	R110+G255+B55+A190	56
	205-207	R135+G80+B255+A255	57
	208-210	R155+B255+A120	58
	211-213	R150+G96+B255+A130	59
	214-216	R255+G55+B40+A255	60
	217-219	R30+G255+B200+A185	61
	220-222	R30+G230+B255+B80	62
	223-225	G255+B255+A70	63
	226-228	G255+G35+A200	64
	229-231	R28+G120+B255+A255	65
	232-234	R150+G255+B205+A150	66
	235-237	R140+G185+B255+A130	67
	238-240	R100+G255+B255+A150	68
	241-243	R140+G255+B55+A255	69
	244-246	R180+G40+B255+A210	70
	247-249	G255+B255+A160	71
	250-252	R185+G255+B73+A73	72
	253-255	RGBA	73
2	0-22	No function	CCT:2300K-8500K
	23	2300K	
	24	2400K	
	25	2500K	
	26	2600K	
	27	2700K	
	28	2800K	
	29	2900K	
	30	3000K	
	31	3100K	
	32	3200K	
	33	3300K	
	34	3400K	

	35	3500K	
	36	3600K	
	37	3700K	
	38	3800K	
	39	3900K	
	40	4000K	
	41	4100K	
	42	4200K	
	43	4300K	
	44	4400K	
	45	4500K	
	46	4600K	
	47	4700K	
	48	4800K	
	49	4900K	
	50	5000K	
	51	5100K	
	52	5200K	
	53	5300K	
	54	5400K	
	55	5500K	
	56	5600K	
	57	5700K	
	58	5800K	
	59	5900K	
	60	6000K	
	61	6100K	
	62	6200K	
	63	6300K	
	64	6400K	
	65	6500K	
	66	6600K	
	67	6700K	
	68	6800K	
	69	6900K	
	70	7000K	
	71	7100K	
	72	7200K	
	73	7300K	
	74	7400K	
	75	7500K	
	76	7600K	
	77	7700K	
	78	7800K	
	79	7900K	
	80	8000K	
	81	8100K	
	82	8200K	
	83	8300K	
	84	8400K	
	85	8500K	
	86-255	No Function	

3	0-10	No Function	Sound Programs：1 to 50 Default Speed: 100% Default Sensitivity: 100%
	11-15	sound1	
	16-20	sound2	
	21-25	sound3	
	26-30	sound4	
	31-35	sound5	
	36-40	sound6	
	41-45	sound7	
	46-50	sound8	
	51-55	sound9	
	56-60	sound10	
	61-65	sound11	
	66-70	sound12	
	71-75	sound13	
	76-80	sound14	
	81-85	sound15	
	86-90	sound16	
	91-95	sound17	
	96-100	sound18	
	101-105	sound19	
	106-110	sound20	
	111-115	sound21	
	116-120	sound22	
	121-125	sound23	
	126-130	sound24	
	131-135	sound25	
	136-140	sound26	
	141-145	sound27	
	146-150	sound28	
	151-155	sound29	
	156-160	sound30	
	161-165	sound31	
	166-170	sound32	
	171-175	sound33	
	176-180	sound34	
	181-185	sound35	
	186-190	sound36	
	191-195	sound37	
	196-200	sound38	
	201-205	sound39	
	206-210	sound40	
	211-215	sound41	
	216-220	sound42	
	221-225	sound43	
	226-230	sound44	
	231-235	sound45	
	236-240	sound46	
	241-245	sound47	
	246-250	sound48	
	251-254	sound49	

	255	sound50	
4	0-36	No Function	0-36 = No Function, 37-255 = Color programs 1 to 72 Built-in Color programs 1 to 72
	37-39	PTY1(RGB)	
	40-42	PTY2(CMY)	
	43-45	PTY3(RGBCMY)	
	46-48	PTY4(RGBA)	
	49-51	RBW(RYGCBM)	
	52-54	RD	
	55-57	RG	
	58-60	RB	
	61-63	RA	
	64-66	RY	
	67-69	R,C	
	70-72	RM	
	73-75	R+G+A, B	
	76-78	R+G+A, G	
	79-81	R+G+A, A	
	82-84	R+G+A, Y	
	85-87	R+A, B	
	88-90	R+A, G	
	91-93	R+A, Y	
	94-96	R+A, A	
	97-99	GD	
	100-102	GB	
	103-105	GA	
	106-108	GY	
	109-111	G,C	
	112-114	GM	
	115-117	G+B+A, B	
	118-120	G+B+A, G	
	121-123	G+B+A, A	
	124-126	G+B+A, Y	
	127-129	G+A, B	
	130-132	G+A, G	
	133-135	G+A, Y	
	136-138	G+A, A	
	139-141	BD	
	142-144	BA	
	145-147	BY	
	148-150	BC	
	151-153	BM	
	154-156	R+G+B, B	
	157-159	R+G+B, G	
	160-162	R+G+B, A	
	163-165	B+A, B	
	166-168	B+A, G	
	169-171	B+A, Y	
	172-174	AD	
	175-177	AY	
	178-180	A,C	

	181-183	AM	
	184-186	YD	
	187-189	YC	
	190-192	YM	
	193-195	C,D	
	196-198	C,M	
	199-201	C,GA	
	202-204	C,RA	
	205-207	C,BA	
	208-210	MD	
	211-213	M,RA	
	214-216	M,GA	
	217-219	M,BA	
	220-222	RGBA,R	
	223-225	RGBA,G	
	226-228	RGBA,B	
	229-231	RGBA,A	
	232-234	RGBA,C	
	235-237	RGBA,M	
	238-240	RGBA,Y	
	241-243	RGBA,RA	
	244-246	RGBA,GA	
	247-249	RBA,M	
	250-255	RBA,C	
5	0-127	Speed for Auto Programs(AUTO)	Slowest Speed to Fastest Speed
	128-255	Speed for Auto Programs(FADE)	Slowest Speed to Fastest Speed

6-Channel Mode

Channel	Value	Feature	Description
1	0-255	Dimmer, 0-100%	
2	0-255	Red, 0 - 100 %	
3	0-255	Green, 0 - 100 %	
4	0-255	Blue, 0 - 100 %	
5	0-255	Amber, 0 - 100 %	
6	0-9	No function	
	10-255	Strobe Effect	Slowest Speed to Fastest Speed

14-Channel Mode

Channel	Value	Feature	Description
1	0-255	Dimmer, 0-100%	
2	0-255	Red, 0 - 100 %	
3	0-255	Green, 0 - 100 %	
4	0-255	Blue, 0 - 100 %	
5	0-255	Amber 0 - 100 %	
6	0-9	No function	
	10-255	Strobe Effect	Slowest Speed to Fastest Speed
7	0-4	No Function	
	5-12	Favorite1	
	13-20	Favorite2	
	21-28	Favorite3	
	29-36	Favorite4	
	37-39	R	
	40-42	G	

	43-45	B	
	46-48	R45+G180+B85+A255	
	49-51	A	
	52-54	R20+B128	
	55-57	R255+B50	
	58-60	R255+G128	
	61-63	R+G	
	64-66	R255+B128	
	67-69	R+B	
	70-72	R200+G60+B30+A80	
	73-75	R+A	
	76-78	R128+G60+B30+A195	
	79-81	R255+B35	
	82-84	R+B20	
	85-87	G255+B128	
	88-90	G+B	
	91-93	G255+B20+A85	
	94-96	G+A	
	97-99	G255+A128	
	100-102	R38+G255+B38+A95	
	103-105	G255+B15	
	106-108	G60+B215+A100	
	109-111	B+A	
	112-114	G110+B255+A255	
	115-117	B	
	118-120	R70+G130+B45+A255	
	121-123	G10+B255	
	124-126	R110+G160+B60+A20	
	127-129	R+G+B	
	130-132	R+G+A	
	133-135	R185+G255+B30	
	136-138	R100+G255+B30+A210	
	139-141	R+B+A	
	142-144	R50+G59+B255+A255	
	145-147	R255+B255+A128	
	148-150	R255+G80+B20	
	151-153	R255+B20+A255	
	154-156	R255+G130+B45+A80	
	157-159	G255+B255+A130	
	160-162	G255+B255+A110	
	163-165	G255+B255	
	166-168	G255+B25	
	169-171	G255+A100	
	172-174	R75+G255+B28	
	175-177	B255+A160	

	178-180	R180+G135+B255	
	181-183	R125+G255+B255	
	184-186	R70+G140+B55+A150	
	187-189	R150+G200+B180+A70	
	190-192	R50+G255+B255+A255	
	193-195	G150+B255+A255	
	196-198	R140+G255+B35+A175	
	199-201	R180+G255+B30+A255	
	202-204	R110+G255+B55+A190	
	205-207	R135+G80+B255+A255	
	208-210	R155+B255+A120	
	211-213	R150+G96+B255+A130	
	214-216	R255+G55+B40+A255	
	217-219	R30+G255+B200+A185	
	220-222	R30+G230+B255+B80	
	223-225	G255+B255+A70	
	226-228	G255+G35+A200	
	229-231	R28+G120+B255+A255	
	232-234	R150+G255+B205+A150	
	235-237	R140+G185+B255+A130	
	238-240	R100+G255+B255+A150	
	241-243	R140+G255+B55+A255	
	244-246	R180+G40+B255+A210	
	247-249	G255+B255+A160	
	250-252	R185+G255+B73+A73	
	253-255	RGBA	
8	0-22	No function	
	23	2300K	
	24	2400K	
	25	2500K	
	26	2600K	
	27	2700K	
	28	2800K	
	29	2900K	
	30	3000K	
	31	3100K	
	32	3200K	
	33	3300K	
	34	3400K	
	35	3500K	
	36	3600K	
	37	3700K	
	38	3800K	
	39	3900K	
	40	4000K	
	41	4100K	

	42	4200K	
	43	4300K	
	44	4400K	
	45	4500K	
	46	4600K	
	47	4700K	
	48	4800K	
	49	4900K	
	50	5000K	
	51	5100K	
	52	5200K	
	53	5300K	
	54	5400K	
	55	5500K	
	56	5600K	
	57	5700K	
	58	5800K	
	59	5900K	
	60	6000K	
	61	6100K	
	62	6200K	
	63	6300K	
	64	6400K	
	65	6500K	
	66	6600K	
	67	6700K	
	68	6800K	
	69	6900K	
	70	7000K	
	71	7100K	
	72	7200K	
	73	7300K	
	74	7400K	
	75	7500K	
	76	7600K	
	77	7700K	
	78	7800K	
	79	7900K	
	80	8000K	
	81	8100K	
	82	8200K	
	83	8300K	
	84	8400K	
	85	8500K	
	86-255	No Function	
9	0-36	No Function	Built-in Color programs 1 to 72 0-36 = No Function, 37-255 = Color programs 1 to 72
	37-39	PTY1(RGB)	

40-42	PTY2(CMY)	
43-45	PTY3(RGBCMY)	
46-48	PTY4(RGBA)	
49-51	RBW(RYGCBM)	
52-54	RD	
55-57	RG	
58-60	RB	
61-63	RA	
64-66	RY	
67-69	R,C	
70-72	RM	
73-75	R+G+A, B	
76-78	R+G+A, G	
79-81	R+G+A, A	
82-84	R+G+A, Y	
85-87	R+A, B	
88-90	R+A, G	
91-93	R+A, Y	
94-96	R+A, A	
97-99	GD	
100-102	GB	
103-105	GA	
106-108	GY	
109-111	G,C	
112-114	GM	
115-117	G+B+A, B	
118-120	G+B+A, G	
121-123	G+B+A, A	
124-126	G+B+A, Y	
127-129	G+A, B	
130-132	G+A, G	
133-135	G+A, Y	
136-138	G+A, A	
139-141	BD	
142-144	BA	
145-147	BY	
148-150	BC	
151-153	BM	
154-156	R+G+B, B	
157-159	R+G+B, G	
160-162	R+G+B, A	
163-165	B+A, B	
166-168	B+A, G	
169-171	B+A, Y	
172-174	AD	

	175-177	AY	
	178-180	A,C	
	181-183	AM	
	184-186	YD	
	187-189	YC	
	190-192	YM	
	193-195	C,D	
	196-198	C,M	
	199-201	C,GA	
	202-204	C,RA	
	205-207	C,BA	
	208-210	MD	
	211-213	M,RA	
	214-216	M,GA	
	217-219	M,BA	
	220-222	RGBA,R	
	223-225	RGBA,G	
	226-228	RGBA,B	
	229-231	RGBA,A	
	232-234	RGBA,C	
	235-237	RGBA,M	
	238-240	RGBA,Y	
	241-243	RGBA,RA	
	244-246	RGBA,GA	
	247-249	RBA,M	
	250-255	RBA,C	
10	0-127	Speed for Auto Programs(AUTO)	Slowest Speed to Fastest Speed
	128-255	Speed for Auto Programs(FADE)	Slowest Speed to Fastest Speed
11	0-10	No function	Sound Programs：1 to 50
	11-15	sound1	
	16-20	sound2	
	21-25	sound3	
	26-30	sound4	
	31-35	sound5	
	36-40	sound6	
	41-45	sound7	
	46-50	sound8	
	51-55	sound9	
	56-60	sound10	
	61-65	sound11	
	66-70	sound12	
	71-75	sound13	
	76-80	sound14	
	81-85	sound15	
	86-90	sound16	
	91-95	sound17	

	96-100	sound18	
	101-105	sound19	
	106-110	sound20	
	111-115	sound21	
	116-120	sound22	
	121-125	sound23	
	126-130	sound24	
	131-135	sound25	
	136-140	sound26	
	141-145	sound27	
	146-150	sound28	
	151-155	sound29	
	156-160	sound30	
	161-165	sound31	
	166-170	sound32	
	171-175	sound33	
	176-180	sound34	
	181-185	sound35	
	186-190	sound36	
	191-195	sound37	
	196-200	sound38	
	201-205	sound39	
	206-210	sound40	
	211-215	sound41	
	216-220	sound42	
	221-225	sound43	
	226-230	sound44	
	231-235	sound45	
	236-240	sound46	
	241-245	sound47	
	246-250	sound48	
	251-254	sound49	
	255	sound50	
12	0-10	Sensitivity	Default at 100% highest sensitivity.
	11-255	Sensitivity	Lowest Sensitivity to Highest Sensitivity
13	0-10	Speed for Sound Programs	Default at 100% Fastest Speed
	11-255	Speed for Sound Programs	Slowest Speed to Fastest Speed

14	0-255	Dimmer Speed Mode	Dimmer speed (step response) Control Board setting dimmer speed OFF: Response characteristics of LEDs Dim1: Response characteristics of halogen lamps, fast Dim2: Response characteristics of halogen lamps, less fast Dim3: Response characteristics of halogen lamps, middle Dim4: Response characteristics of halogen lamps, slow 0-5 6-55 56-105 106-155 156-205 206-255

19-Channel Mode			
Channel	**Value**	**Feature**	**Description**
1	0-255	Dimmer, 0-100%	
2	0-255	Dimmer Fine	
3	0-255	Red, 0 - 100 %	
4	0-255	Red Fine	
5	0-255	Green, 0 - 100 %	
6	0-255	Green Fine	
7	0-255	Blue, 0 - 100 %	
8	0-255	Blue Fine	
9	0-255	Amber 0 - 100 %	
10	0-255	Amber Fine	
11	0-9	No function	
	10-255	Strobe Effect	Slowest Speed to Fastest Speed
12	0-4	No Function	
	5-12	Favorite1	
	13-20	Favorite2	
	21-28	Favorite3	
	29-36	Favorite4	
	37-39	R	
	40-42	G	
	43-45	B	
	46-48	R45+G180+B85+A255	
	49-51	A	
	52-54	R20+B128	
	55-57	R255+B50	
	58-60	R255+G128	
	61-63	R+G	
	64-66	R255+B128	
	67-69	R+B	

	70-72	R200+G60+B30+A80	
	73-75	R+A	
	76-78	R128+G60+B30+A195	
	79-81	R255+B35	
	82-84	R+B20	
	85-87	G255+B128	
	88-90	G+B	
	91-93	G255+B20+A85	
	94-96	G+A	
	97-99	G255+A128	
	100-102	R38+G255+B38+A95	
	103-105	G255+B15	
	106-108	G60+B215+A100	
	109-111	B+A	
	112-114	G110+B255+A255	
	115-117	B	
	118-120	R70+G130+B45+A255	
	121-123	G10+B255	
	124-126	R110+G160+B60+A20	
	127-129	R+G+B	
	130-132	R+G+A	
	133-135	R185+G255+B30	
	136-138	R100+G255+B30+A210	
	139-141	R+B+A	
	142-144	R50+G59+B255+A255	
	145-147	R255+B255+A128	
	148-150	R255+G80+B20	
	151-153	R255+B20+A255	
	154-156	R255+G130+B45+A80	
	157-159	G255+B255+A130	
	160-162	G255+B255+A110	
	163-165	G255+B255	
	166-168	G255+B25	
	169-171	G255+A100	
	172-174	R75+G255+B28	
	175-177	B255+A160	
	178-180	R180+G135+B255	
	181-183	R125+G255+B255	
	184-186	R70+G140+B55+A150	
	187-189	R150+G200+B180+A70	
	190-192	R50+G255+B255+A255	
	193-195	G150+B255+A255	
	196-198	R140+G255+B35+A175	
	199-201	R180+G255+B30+A255	
	202-204	R110+G255+B55+A190	

	205-207	R135+G80+B255+A255	
	208-210	R155+B255+A120	
	211-213	R150+G96+B255+A130	
	214-216	R255+G55+B40+A255	
	217-219	R30+G255+B200+A185	
	220-222	R30+G230+B255+B80	
	223-225	G255+B255+A70	
	226-228	G255+G35+A200	
	229-231	R28+G120+B255+A255	
	232-234	R150+G255+B205+A150	
	235-237	R140+G185+B255+A130	
	238-240	R100+G255+B255+A150	
	241-243	R140+G255+B55+A255	
	244-246	R180+G40+B255+A210	
	247-249	G255+B255+A160	
	250-252	R185+G255+B73+A73	
	253-255	RGBA	
13	0-22	No function	
	23	2300K	
	24	2400K	
	25	2500K	
	26	2600K	
	27	2700K	
	28	2800K	
	29	2900K	
	30	3000K	
	31	3100K	
	32	3200K	
	33	3300K	
	34	3400K	
	35	3500K	
	36	3600K	
	37	3700K	
	38	3800K	
	39	3900K	
	40	4000K	
	41	4100K	
	42	4200K	
	43	4300K	
	44	4400K	
	45	4500K	
	46	4600K	
	47	4700K	
	48	4800K	
	49	4900K	
	50	5000K	
	51	5100K	

	52	5200K	
	53	5300K	
	54	5400K	
	55	5500K	
	56	5600K	
	57	5700K	
	58	5800K	
	59	5900K	
	60	6000K	
	61	6100K	
	62	6200K	
	63	6300K	
	64	6400K	
	65	6500K	
	66	6600K	
	67	6700K	
	68	6800K	
	69	6900K	
	70	7000K	
	71	7100K	
	72	7200K	
	73	7300K	
	74	7400K	
	75	7500K	
	76	7600K	
	77	7700K	
	78	7800K	
	79	7900K	
	80	8000K	
	81	8100K	
	82	8200K	
	83	8300K	
	84	8400K	
	85	8500K	
	86-255	No Function	
14	0-36	No Function	Built-in Color programs 1 to 72 0-36 = No Function, 37-255 = Color programs 1 to 72
	37-39	PTY1(RGB)	
	40-42	PTY2(CMY)	
	43-45	PTY3(RGBCMY)	
	46-48	PTY4(RGBA)	
	49-51	RBW(RYGCBM)	
	52-54	RD	
	55-57	RG	
	58-60	RB	
	61-63	RA	
	64-66	RY	

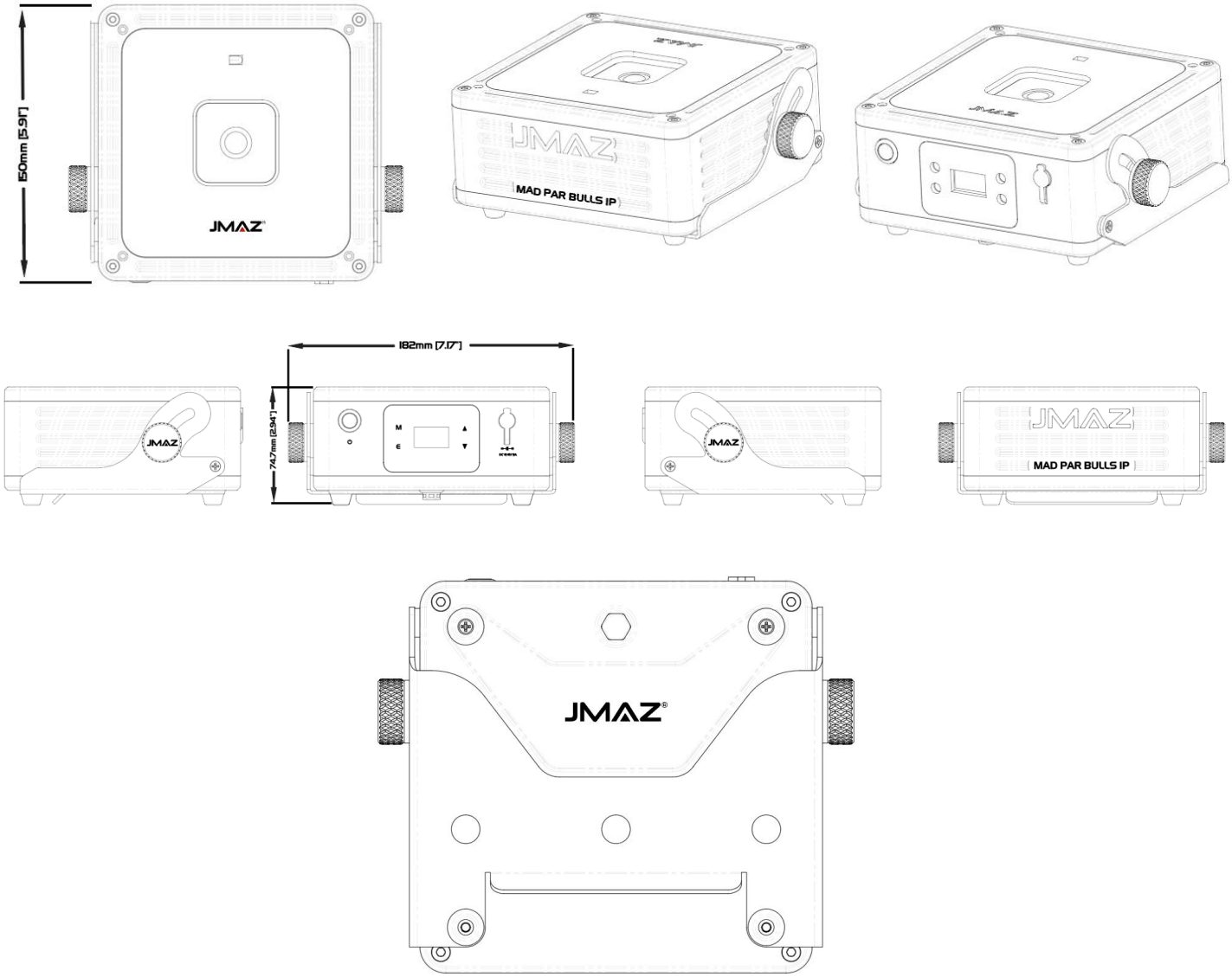
67-69	R,C	
70-72	RM	
73-75	R+G+A, B	
76-78	R+G+A, G	
79-81	R+G+A, A	
82-84	R+G+A, Y	
85-87	R+A, B	
88-90	R+A, G	
91-93	R+A, Y	
94-96	R+A, A	
97-99	GD	
100-102	GB	
103-105	GA	
106-108	GY	
109-111	G,C	
112-114	GM	
115-117	G+B+A, B	
118-120	G+B+A, G	
121-123	G+B+A, A	
124-126	G+B+A, Y	
127-129	G+A, B	
130-132	G+A, G	
133-135	G+A, Y	
136-138	G+A, A	
139-141	BD	
142-144	BA	
145-147	BY	
148-150	BC	
151-153	BM	
154-156	R+G+B, B	
157-159	R+G+B, G	
160-162	R+G+B, A	
163-165	B+A, B	
166-168	B+A, G	
169-171	B+A, Y	
172-174	AD	
175-177	AY	
178-180	A,C	
181-183	AM	
184-186	YD	
187-189	YC	
190-192	YM	
193-195	C,D	
196-198	C,M	
199-201	C,GA	

	202-204	C,RA	
	205-207	C,BA	
	208-210	MD	
	211-213	M,RA	
	214-216	M,GA	
	217-219	M,BA	
	220-222	RGBA,R	
	223-225	RGBA,G	
	226-228	RGBA,B	
	229-231	RGBA,A	
	232-234	RGBA,C	
	235-237	RGBA,M	
	238-240	RGBA,Y	
	241-243	RGBA,RA	
	244-246	RGBA,GA	
	247-249	RBA,M	
	250-255	RBA,C	
15	0-127	Speed for Auto Programs(AUTO)	Slowest Speed to Fastest Speed
	128-255	Speed for Auto Programs(FADE)	Slowest Speed to Fastest Speed
16	0-10	No function	Sound Programs：1 to 50
	11-15	sound1	
	16-20	sound2	
	21-25	sound3	
	26-30	sound4	
	31-35	sound5	
	36-40	sound6	
	41-45	sound7	
	46-50	sound8	
	51-55	sound9	
	56-60	sound10	
	61-65	sound11	
	66-70	sound12	
	71-75	sound13	
	76-80	sound14	
	81-85	sound15	
	86-90	sound16	
	91-95	sound17	
	96-100	sound18	
	101-105	sound19	
	106-110	sound20	
	111-115	sound21	
	116-120	sound22	
	121-125	sound23	
	126-130	sound24	
	131-135	sound25	
	136-140	sound26	
	141-145	sound27	

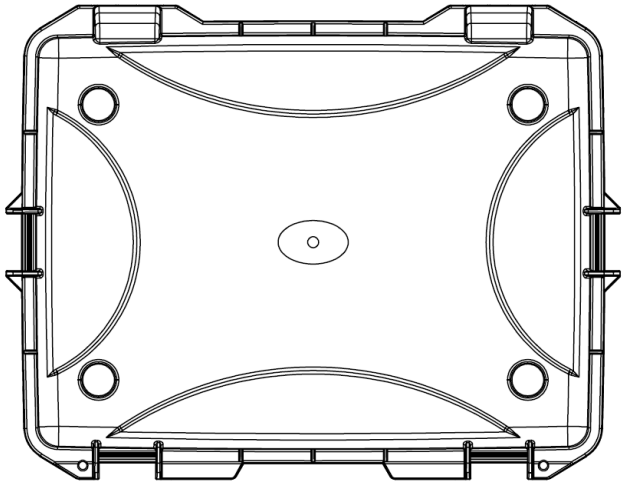
	146-150	sound28	
	151-155	sound29	
	156-160	sound30	
	161-165	sound31	
	166-170	sound32	
	171-175	sound33	
	176-180	sound34	
	181-185	sound35	
	186-190	sound36	
	191-195	sound37	
	196-200	sound38	
	201-205	sound39	
	206-210	sound40	
	211-215	sound41	
	216-220	sound42	
	221-225	sound43	
	226-230	sound44	
	231-235	sound45	
	236-240	sound46	
	241-245	sound47	
	246-250	sound48	
	251-254	sound49	
	255	sound50	
17	0-10	Sensitivity	Default at 100% highest sensitivity.
	11-255	Sensitivity	Lowest Sensitivity to Highest Sensitivity
18	0-10	Speed for Sound Programs	Default at 100% Fastest Speed
	11-255	Speed for Sound Programs	Slowest Speed to Fastest Speed
19	0-255	Dimmer Speed Mode	Dimmer speed (step response) Control Board setting dimmer speed OFF: Response characteristics of LEDs Dim1: Response characteristics of halogen lamps, fast Dim2: Response characteristics of halogen lamps, less fast Dim3: Response characteristics of halogen lamps, middle Dim4: Response characteristics of halogen lamps, slow 0-5 6-55 56-105 106-155 156-205 206-255

CAD Drawings:

Fixture:



6PK Hard Case:



MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized JMAZ service technician. Should you need any spare parts, please order genuine parts from your local JMAZ dealer.

Please refer to the following points during routine inspections:

A. A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

B. Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.

C. Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).

D. Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

SOFTWARE UPDATES

For software updates, please contact JMAZ service to obtain the latest firmware and detailed instructions. Refer to the Introduction section of this manual for contact information.

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JMAZ®

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