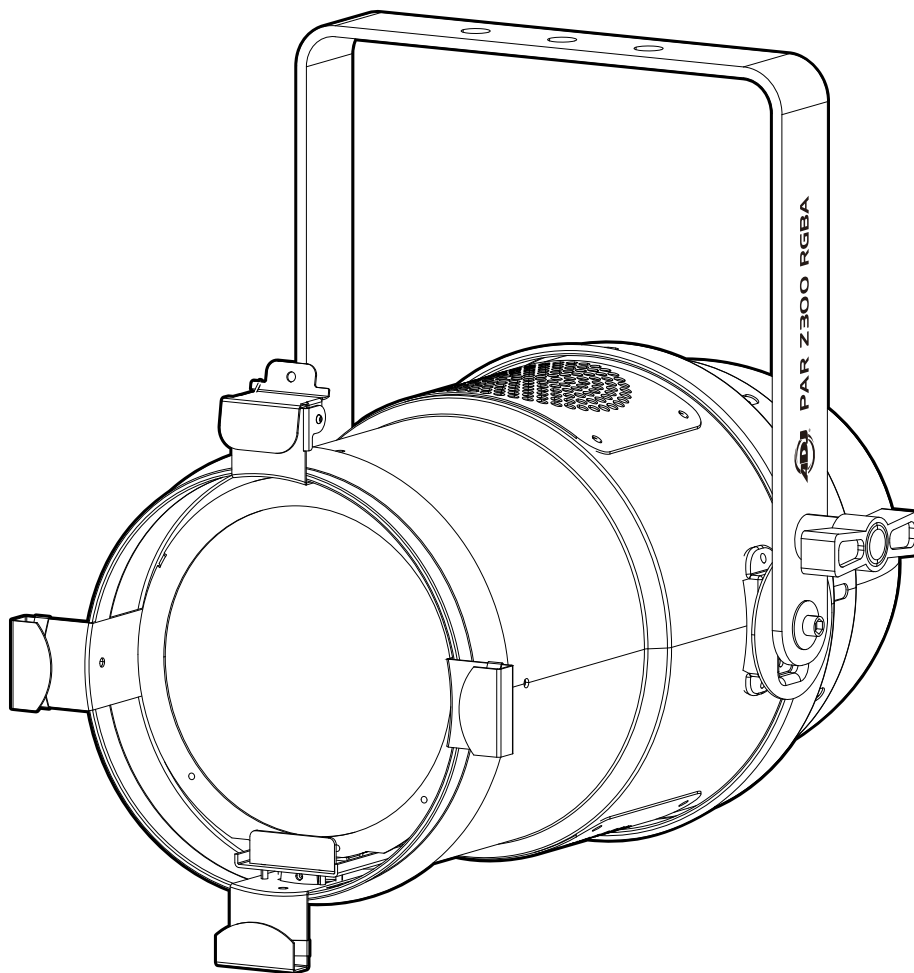




PAR Z300 RGBA

User Manual

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version >	DMX Channel Mode	Notes
04/15/25	1	1.00	4ch / 5ch / 9ch A / 9ch B / 13ch / 15ch	Initial Release
06/25/25	1.1	N/C	No Change	Updated: Overview, RDM, Dimensional Drawings, Specifications
08/19/25	1.2	N/C	No Change	Updated: Safety Guidelines, Installation Guidelines, DMX Traits

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

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

Unpacking

Every device 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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

- Gel Frame (filter not included)
- UCIR24 Wireless Remote
- Power Cord

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

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REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ PRODUCTS, LLC. is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED



**THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.
DONOTATTEMPTANYREPAIRSYOURSELF;DOINGSOWILLVOIDYOURMANUFACTURER'S
WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR
THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID
THE MANUFACTURE'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS
AND/OR REPAIRS.**



**DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**



**INDOOR / DRY LOCATIONS USE ONLY!
DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!**



**MINIMUM DISTANCE TO FLAMMABLE MATERIALS 1.6 FEET (0.5 M)
MINIMUM DISTANCES TO ILLUMINATED OBJECTS 1.6 FEET (0.5M)**

WARNING



**Minimum distance to illuminated objects 0.5 meters.
Minimum distance to flammable materials 0.5 meters.**

SAFETY GUIDELINES

DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.

DO NOT shake fixture, avoid brute force when installing and/or operating fixture.

DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

DO NOT block any air ventilation slots.

All fan and air inlets must remain clean and never blocked.

Ambient operating temperature is range -4°F to 104°F (-20°C to 40°C). Do not operate this device when ambient temperature falls outside of this range.

Allow approx. 1.0 feet (0.3m) between fixture and other devices or a wall for proper cooling.

When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.

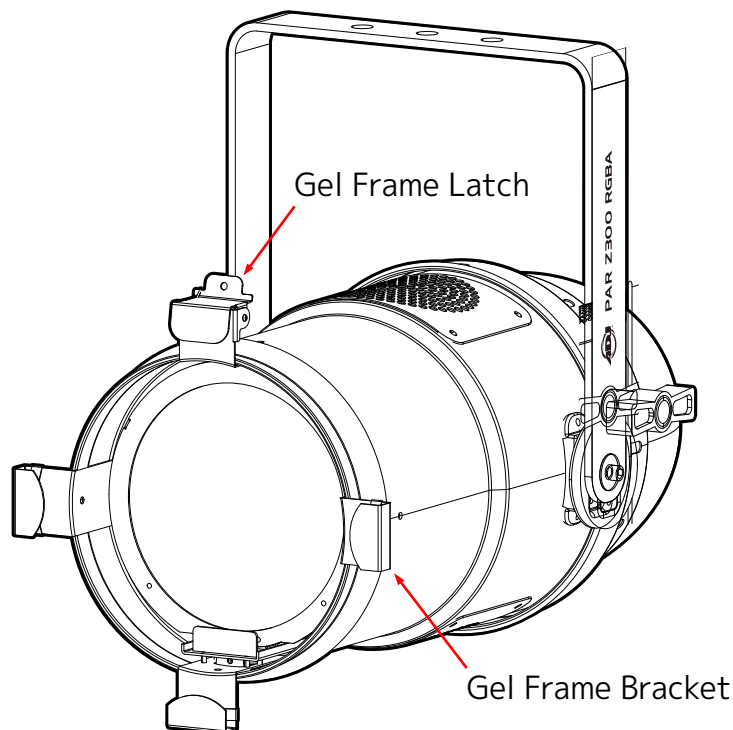
Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

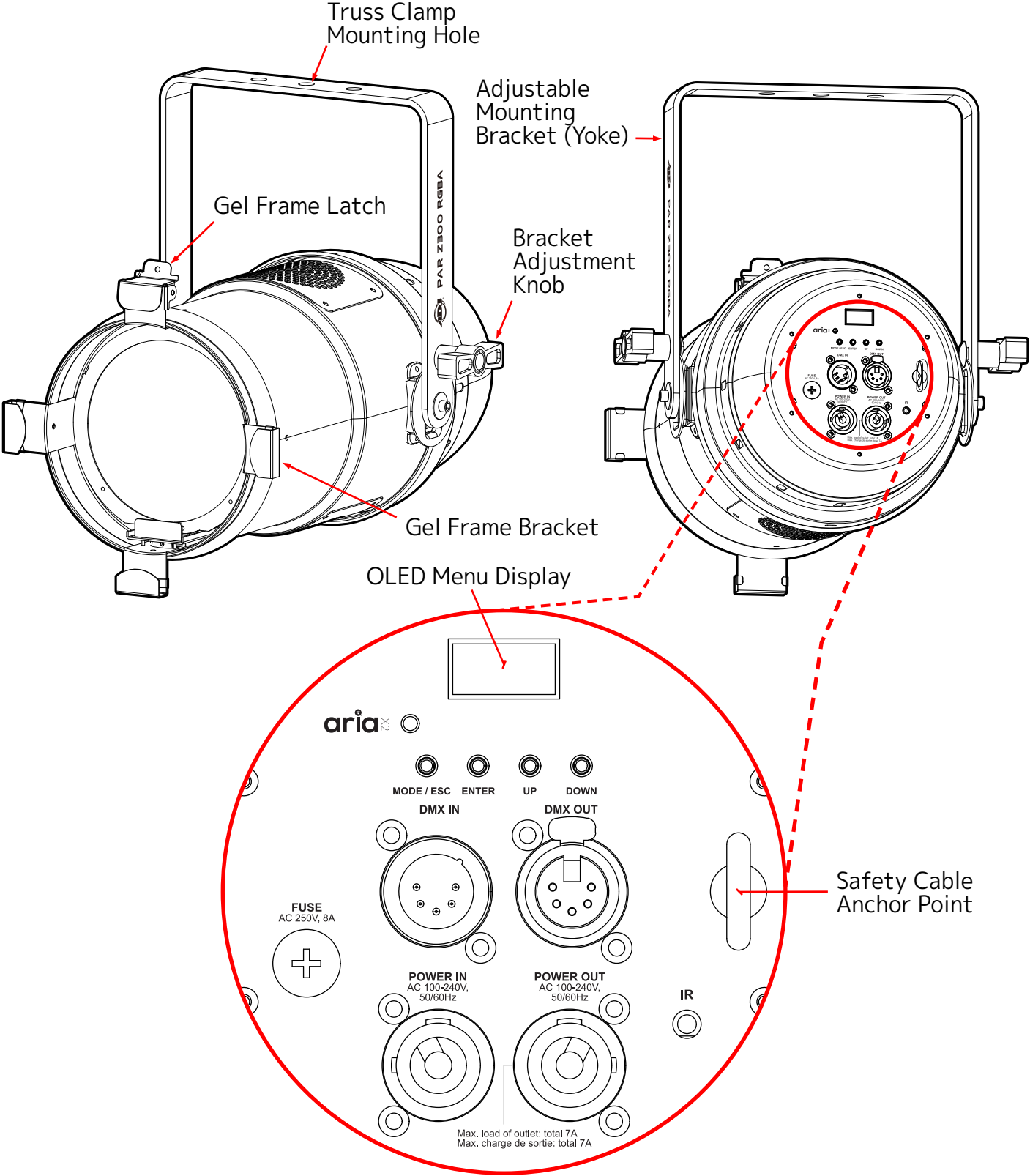
Consistent operational breaks will ensure fixture will function properly for many years.

ONLY Use original packaging and materials to transport the fixture in for service.

NOTE: when installing the fixture, ensure the Latch is positioned at the top so that, in the unlikely event the latch fails, the gel frame will remain in the fixture.



OVERVIEW



INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 1.6 feet (0.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



WHEN POWER LINKING, ONLY CONNECT THIS FIXTURE TO OTHER FIXTURES OF THE SAME MAKE AND MODEL. NEVER MIX UNITS. CHECK SILK SCREEN FOR MAX AMPS.



**MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5M)
MINIMUM DISTANCES TO ILLUMINATED OBJECTS 1.6 FEET (0.5M)**

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Fixture ambient operating temperature range is **-4° to 104°F. (-20° to 40°C).**

Do not Use fixture under or above this temperature.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

NEVER stand directly below the fixture(s) when rigging, removing or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before servicing.

The light source contained in this fixture should only be replaced by either the manufacturer, the manufacturer's service agent, or other qualified personnel.

The fixture should be positioned to avoid a direct line of sight into the light source at a distance of less than 29 feet (8.8 meters).

RIGGING

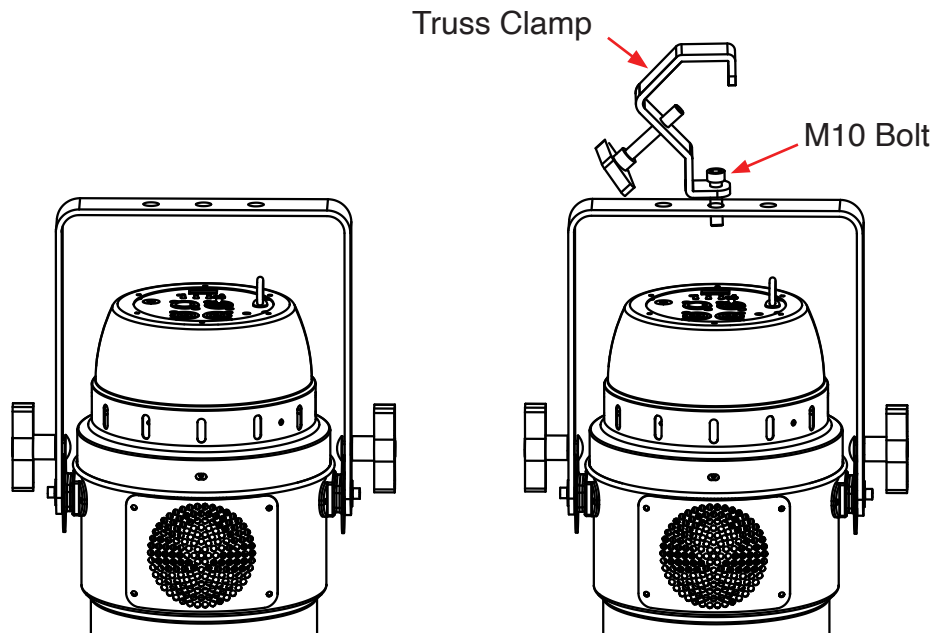
Overhead rigging requires extensive experience, including among others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

OPERATIONAL BREAKS

Duty Cycle - It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing the fixture's operational lifespan.

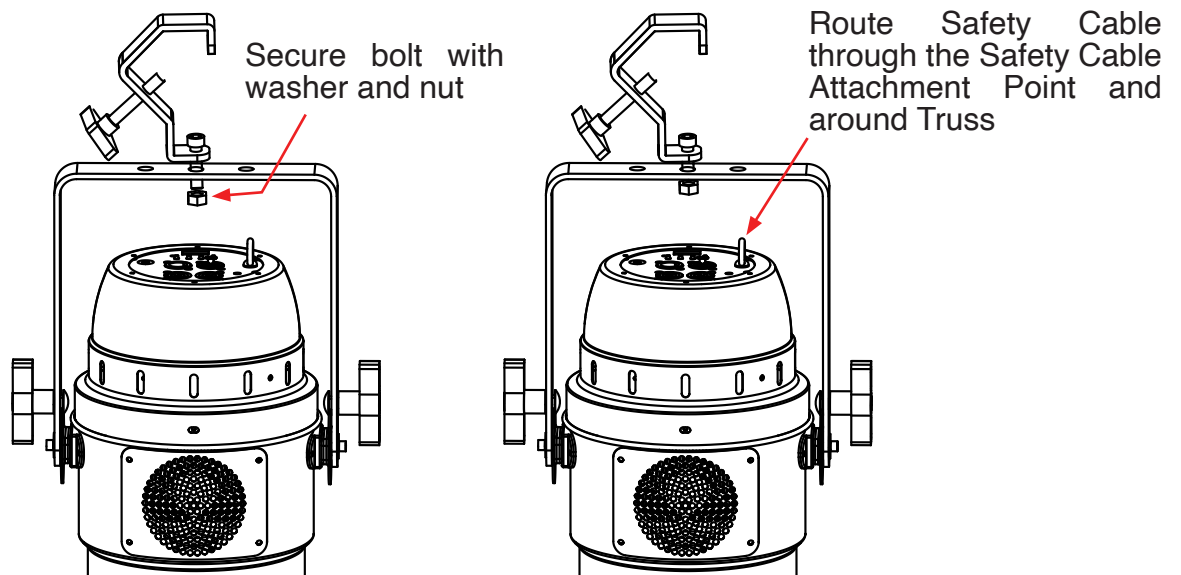
INSTALLATION GUIDELINES

When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the Adjustable using an M10 screw fitted through the center hole of the Adjustable Mounting Bracket. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.



SAFETY CABLE

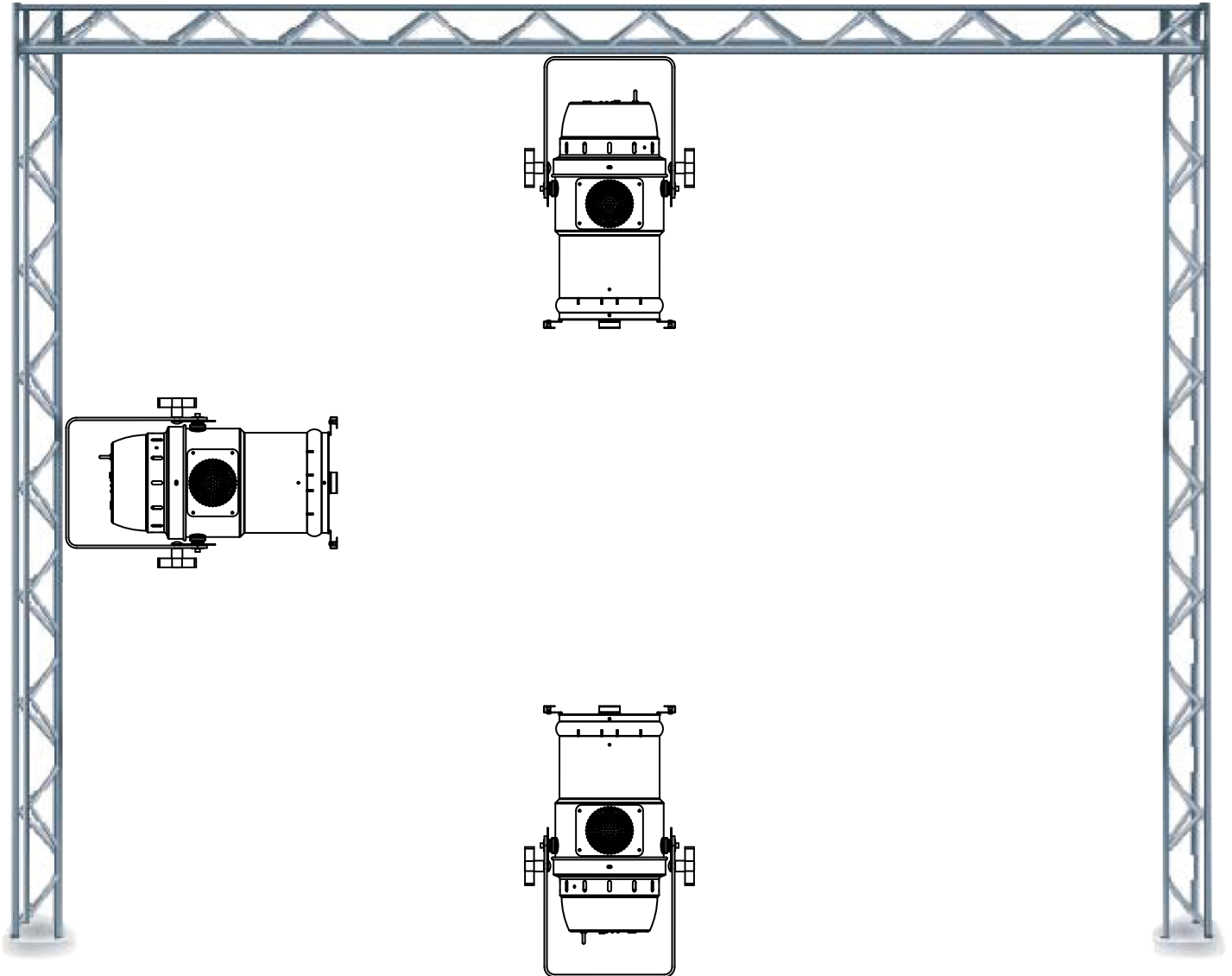
ALWAYS ATTACH A SAFETY WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS. CLAMP INSTALLATION



INSTALLATION GUIDELINES

RIGGING

Overhead rigging requires extensive experience, including among others, calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!

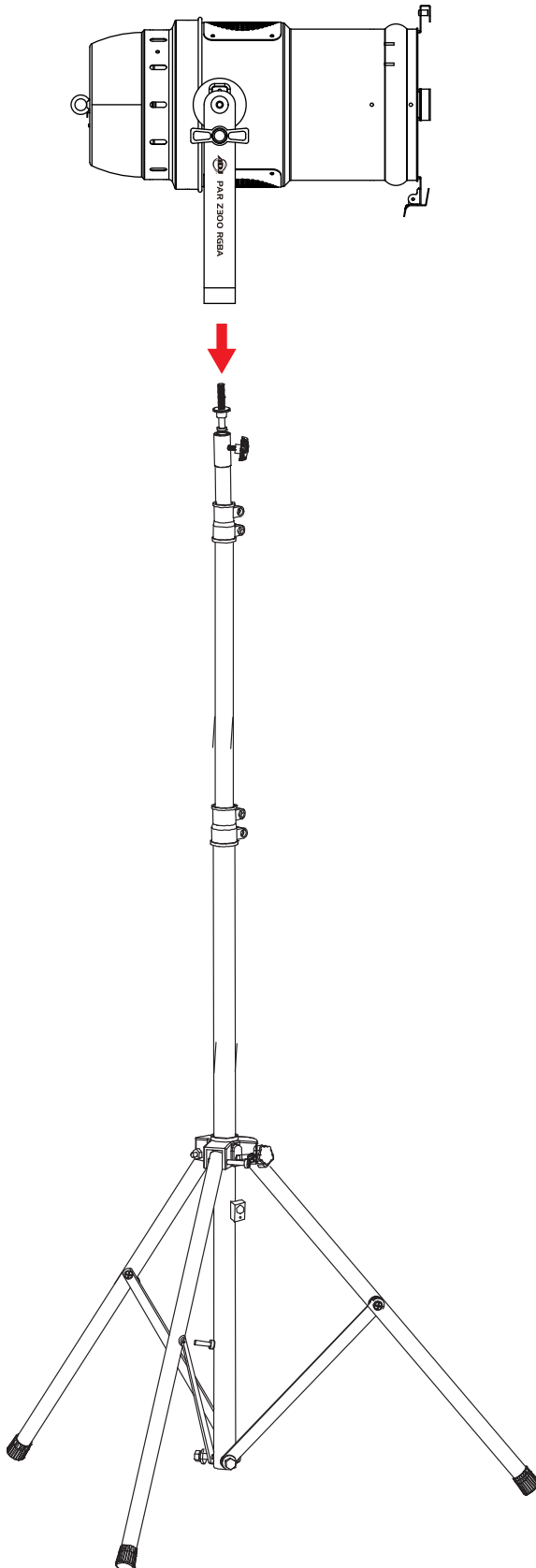


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

INSTALLATION GUIDELINES

STAND MOUNTING

This fixture can also be installed atop a tripod stand. Simply insert the threaded bolt on the top of the tripod stand through the hole in the mounting yoke. Tighten the nut onto the threaded bolt to secure the mounted device in place.



CAUTION!

**MAKE SURE THAT THE TRIPOD LEGS
AND ALL TELESOPING ELEMENTS
OF THE TRIPOD STAND ARE LOCKED
IN PLACE BEFORE INSTALLING THE
DEVICE ATOP THE STAND!**

**POSITION THE TRIPOD STAND
AND MOUNTED DEVICE ONLY ON
FLAT, STABLE SURFACES! DEPLOY
TRIPOD LEGS FULLY IN ORDER TO
MAXIMIZE STABILITY!**

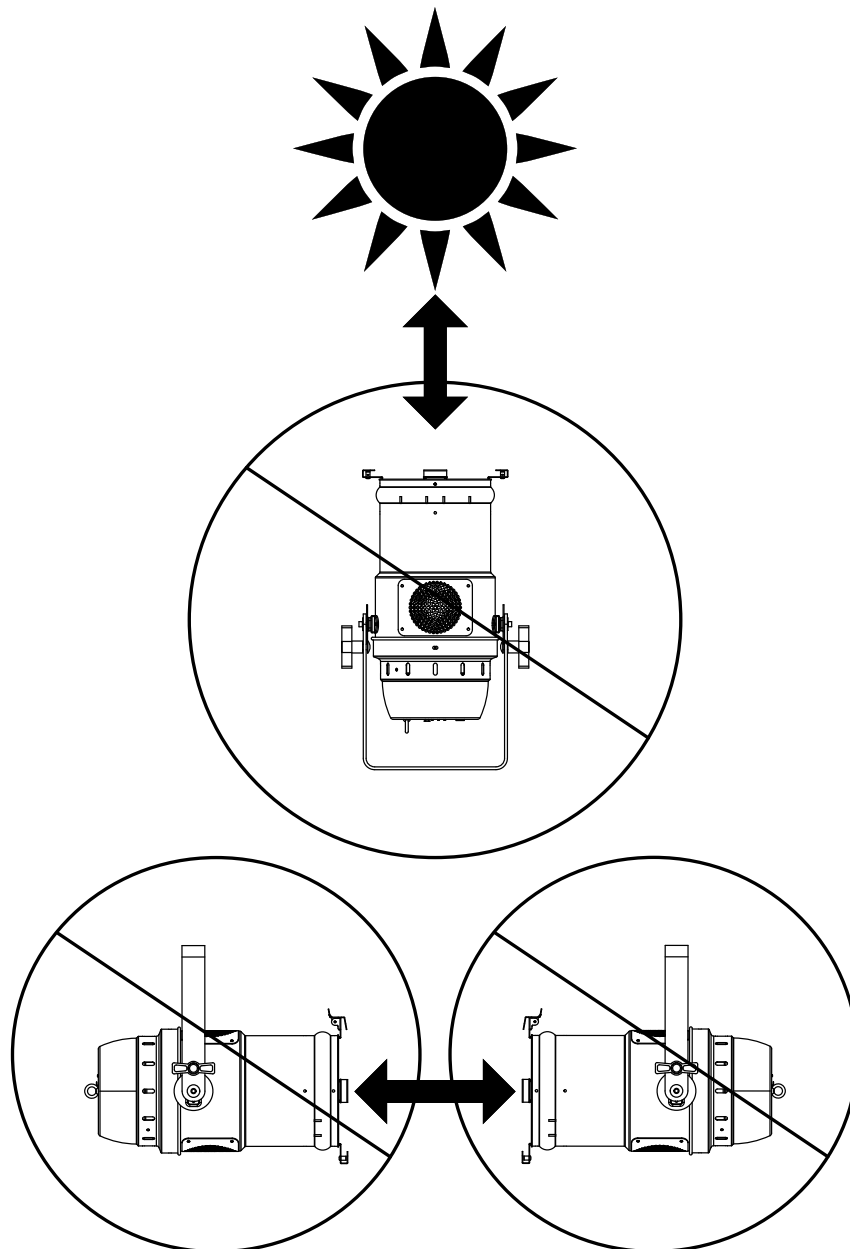
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

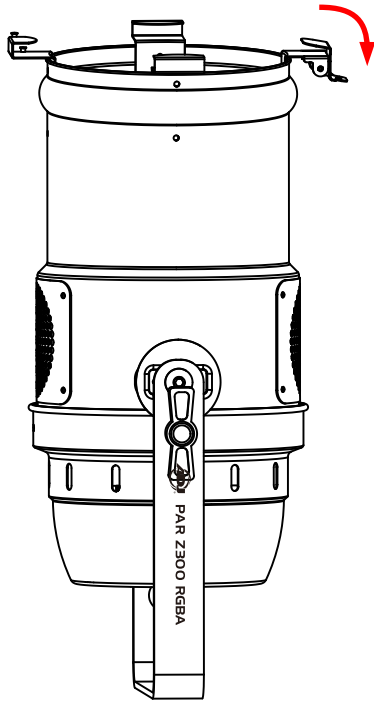
External sources of light beams from direct sunlight, lighting and moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ADJ lighting fixtures, can cause severe internal damage including burning of optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to ADJ lighting fixtures, but rather it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can reduce the risk of potential damage. Contact ADJ Service for more details.

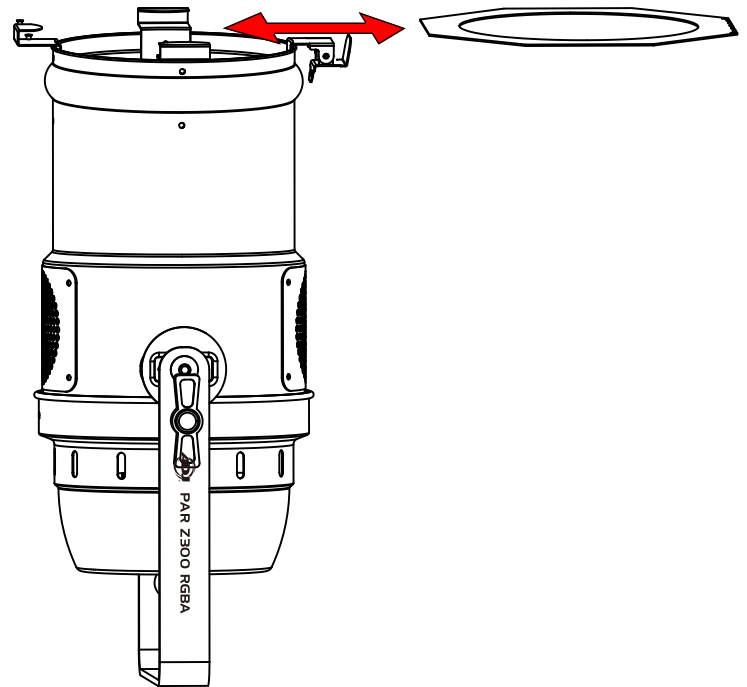
DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



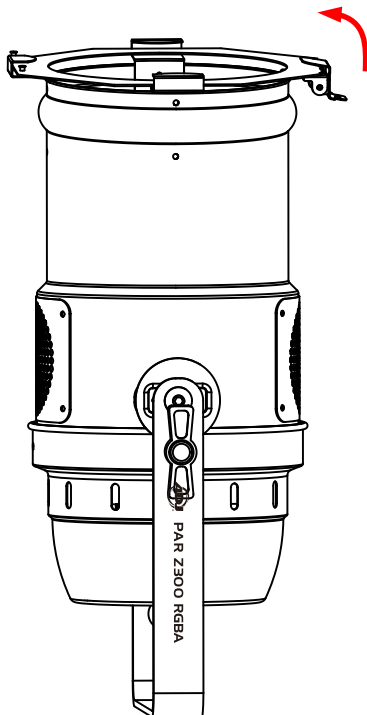
ACCESSORY INSTALLATION: GEL FRAME



1. Flip open the retaining clip.



2. Slide the Gel Frame into place.

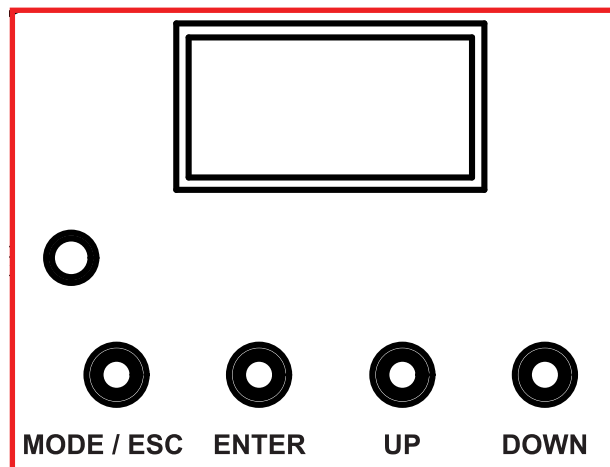


3. Return the retaining clip to the original position.

SYSTEM MENU

The PAR Z300 RGBA features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

- The **MODE** button cycles through main menu options, or returns to the previous menu without making changes.
- The **SET UP** button is used to select the highlighted option, or to confirm a selection.
- The **UP** and **DOWN** buttons are used to navigate and adjust menu options and settings displayed on the screen.



SERVICE PORT / SOFTWARE UPDATES

Please contact ADJ customer support for latest software and updating instructions

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs.
Also visit forums.adj.com with questions, comments or suggestions.

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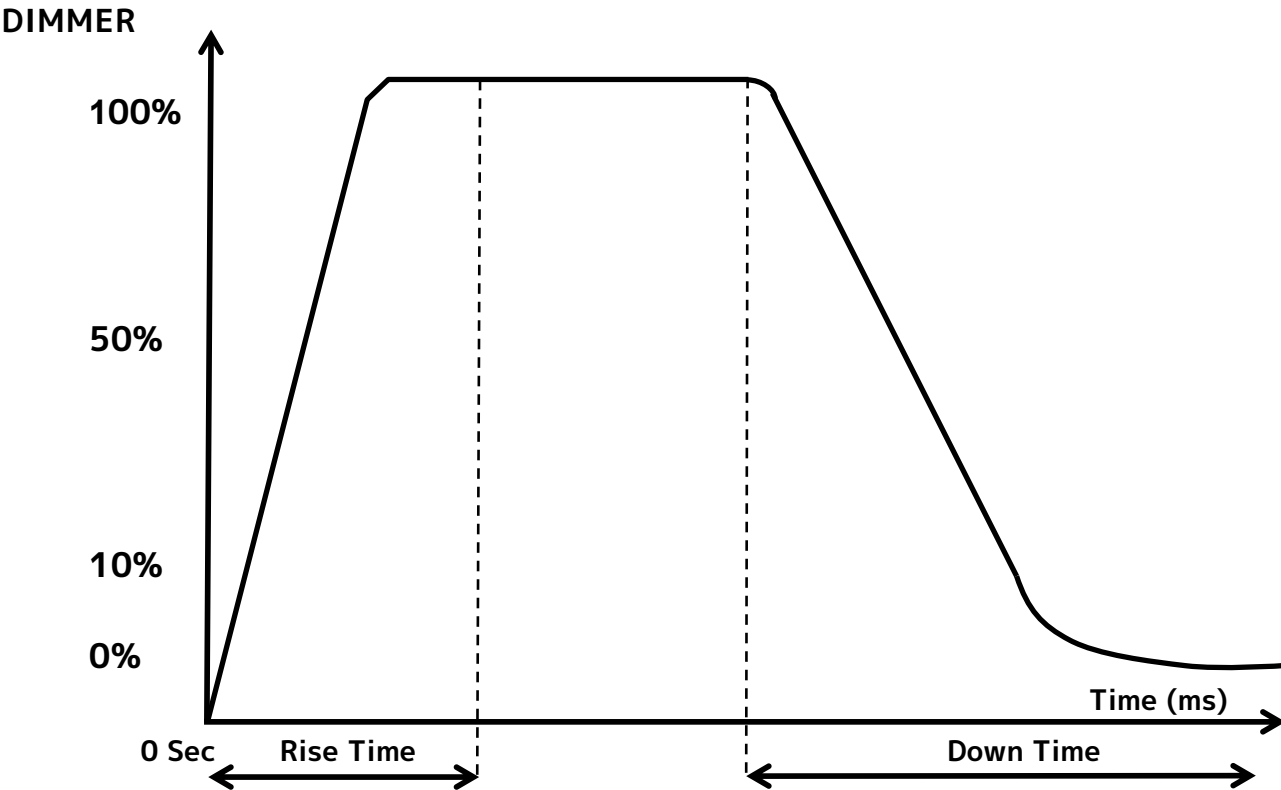
SYSTEM MENU

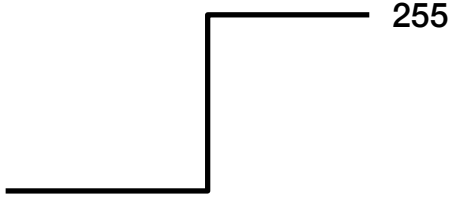
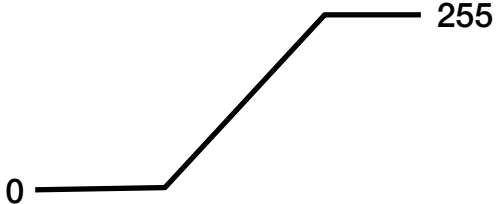
MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
DMX Settings	DMX Address	001 - 512	
	Channel Mode	4ch, 5ch, 9ch A , 9ch B, 13ch, 15ch	
	No DMX	Hold Last , Blackout, Manual, Internal Programs	
Personality	Primary / Secondary	Primary / Secondary	
	Signal	DMX or Aria	
		Aria In / DMX Out	ON/OFF
	Aria	Aria Enable	ON/OFF
		Frequency	2.4Ghz. , Sub-G US, Sub-G EU
		2.4Ghz CH	00 ~15
		Sub Gig CH	00 ~09
		Mesh	ON / OFF
		Bluetooth Enable	ON / OFF
	RDM	ON / OFF	
	Dim Mode	Standard , Stage, TV, Architechtrual, Theatre, Stage 2	
		Dim Delay	0-99
	Dim Curves	Square , Linear, Inv.Squa, S.Curve	
	LED Frequency	900, 1000, 1100, 1200 , 1300, 1400, 1500, 2500, 4000, 5000,10k,15k, 20k, 25k	
	Display	Saver Delay	OFF, 1- 10 Seconds
		Screen Lock	OFF - 30 Sec., 1M, 2M... 10M
		Rotate	YES / NO
	IR Function	ON / OFF	
	IR Button Colors	Button 0	Red 000-255
			Green 000-255
			Blue 000-255
			Amber 000-255
		Button 1	Red 000-255
			Green 000-255
			Blue 000-255
			Amber 000-255
		Button 2	Red 000-255
			Green 000-255
			Blue 000-255
			Amber 000-255
		...	...
		Button 15	Red 000-255
			Green 000-255
			Blue 000-255
			Amber 000-255
	Fan Settings	Auto , High, Low	
	Service	Passcode	White Balance
			Red 000-255
			Green 000-255
			Blue 000-255
			Amber 000-255
			DMX LED
			Enable / Disable
			Charge LED
			Enable / Disable
			Factory Reset
			YES / NO

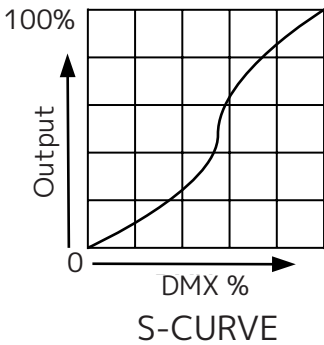
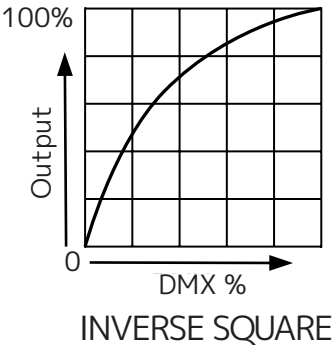
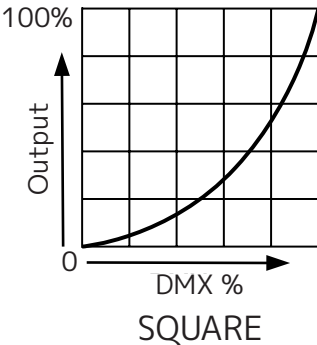
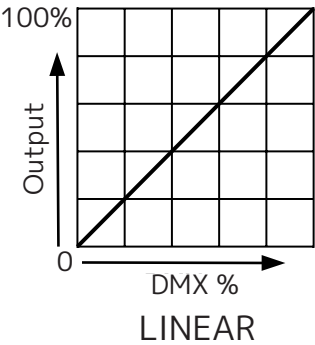
SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
Manual	Red		000-255
	Green		000-255
	Blue		000-255
	Amber		000-255
	Color Macros		000-255
	Color Temperature Linear		000-255
	Color Temperature Presets		Off, 2300k, 2400k, 2500k, 2600k... 9900k
	Shutter		000- 255
	Dimmer		000- 255
	Internal Programs		Off, Prog 0, Prog 1... Prog 13
	Internal Program Speed		000-255
	Internal Program Fade		000-255
Internal Programs	Program 0	Speed	1-255
		Fade	0-255
	Program 1	Speed	1-255
		Fade	0-255
	Program 2	Speed	1-255
		Fade	0-255
	Program 3	Speed	1-255
		Fade	0-255
	...	...	
	Program 13	Speed	1-255
		Fade	0-255
Info	Fixture Life time hours		xxxxx
	LED Usage time		xxxxx
	LED Temperature		xxx F / xxx C
	Software Version		x.xx
	RDM UID		xxxxxx
	Aria ID		xx:xx:xx:xx:xx:xx

DIMMER MODES AND CURVES



Dimming Curve Ramp Effect	0 sec Fade Time		1 sec Fade Time	
				
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660



DMX SETUP

Power Supply: The ADJ PAR Z300 RGBA incorporates an electronic ballast, which automatically senses the voltage when it is plugged into the power source. With the electronic ballast, this unit can be plugged in anywhere.

DMX-512: DMX stands for Digital Multiplex. This is a universal protocol used by most lighting and controller manufacturers 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 found on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

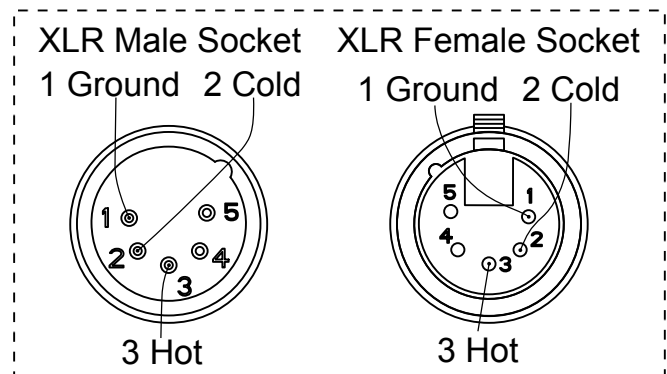
DMX Linking: DMX serves as a language that allows all makes and models from different manufacturers to be linked and operated from a single controller if all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission when using several DMX fixtures, use the shortest cable path 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 in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX and Primary/Secondary Operation): The PAR Z300 RGBA can be controlled via DMX-512 protocol. It can be either a 10, 12, or 16-channel DMX unit. The DMX address is electronically set using the controls on the front panel of the unit. One’s unit and DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). Accu-Cable DMX cables are recommended. If one is making their 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). Cables should be made with a male and female XLR connector on either end of the cable. Also, remember that DMX cable must be daisy-chained and cannot be split.



Notice: Be sure to follow figures below when making one’s 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 contact the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior

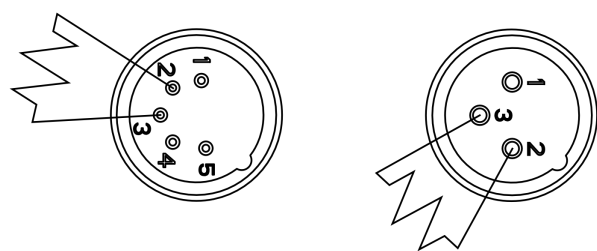
5-Pin XLR to 5-Pin XLR		
Ground/Shield	Pin 1	Pin 1
Data Complement (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used	Pin 4	Pin 4
Not Used	Pin 5	Pin 5



DMX SETUP

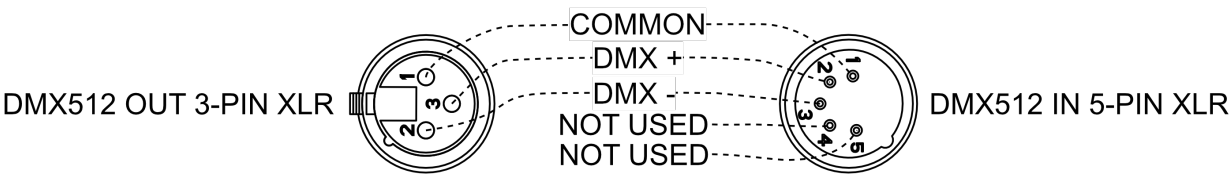
Power Supply: The PAR Z300 RGBA incorporates an electronic ballast, which automatically

Special Note: Line Termination: When using longer runs of cable, one 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 connects between pins 2 and 3 of a male XLR connector (DATA + and DATA -). Insert this unit into the female XLR connector of the last unit in one's daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

5-Pin XLR DMX Connectors: Some manufacturers use 5-pin DMX-512 data cables for DATA transmission instead of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables into a 3-pin line, use a cable adaptor, readily available at most electric stores. The chart below details a proper cable conversion.



3-Pin XLR to 5-Pin XLR Conversion		
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

DMX TRAITS

CHANNEL						DMX VALUE	FUNCTION
4Ch	5Ch	9Ch A	9Ch B	13Ch	15Ch		
1		1		1	1	0-255	Red , 0~100%
2		2		2	2	0-255	Green , 0~100%
3		3		3	3	0-255	Blue , 0~100%
4		4		4	4	0-255	Amber , 0~100%
		5	1	5	5	0-255	Color Macros
	1	6	2	6	6	0-255	Color Temperature 2300-9900K Linear , 0~100%
							White Color Temperature Presets
	2	7	3	7	7	0-22	Open
						23-99	See WCT Preset Chart
						100-255	No Function
							Shutter
						0-31	LEDs Off
						32-63	LEDs On
						64-95	Strobe effect slow to fast
	3	8	4	8	8	96-127	Led's On
						128-159	Pulse-effect in sequences
						160-191	Led's On
						192-223	Random strobe effect slow to fast
						224-255	Led's On
	4	9	5	9	9	0-255	Dimmer , Intensity 0 to 100%
	5		6	10	10	0-255	Dimmer Fine
							Internal Programs
						0-10	Off
						11-26	Auto Program 1
						27-43	Auto Program 2
						44-60	Auto Program 3
						61-76	Auto Program 4
						77-93	Auto Program 5
						94-110	Auto Program 6
						111-126	Auto Program 7
						127-143	Auto Program 8
						144-160	Auto Program 9
						161-176	Auto Program 10
						177-193	Auto Program 11
						194-210	Auto Program 12
						211-226	Auto Program 13
						227-255	No Function
			8	12	12	0-255	Internal Programs Speed : Slow to Fast
			9	13	13	0-255	Internal Programs Fade : Less to More

DMX TRAITS

CHANNEL						DMX VALUE	FUNCTION
4Ch	5Ch	9Ch A	9Ch B	13Ch	15Ch		
					14		Dim Mode
						000-020	Default to Unit Setting
						021-040	Standard
						041-060	Stage
						061-080	TV
						081-100	Architectural
						101-120	Theatre
						121-140	Stage 2
							Dim Speed
						141	0.1 s
						142	0.2 s
						143	0.3 s
						144	0.4 s
						145	0.5 s
						146	0.6 s
						147	0.7 s
						148	0.8 s
						149	0.9 s
						150	1 s
						151	1.5 s
						152	2 s
						153	3 s
						154	4 s
						155	5 s
						156	6 s
						157	7 s
						158	8 s
						159	9 s
						160	10 s
						161-255	Default to Unit Setting
					15		Dim Curves
						0-20	Square
						21-40	Linear
						41-60	Inv. Squa
						61-80	S. Curve
						81-255	No Function

COLOR TEMPERATURE

Colors shown are an approximate representation. <https://www.luxalight.eu/en/cie-convector>

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
23	2300	62	6200
24	2400	63	6300
25	2500	64	6400
26	2600	65	6500
27	2700	66	6600
28	2800	67	6700
29	2900	68	6800
30	3000	69	6900
31	3100	70	7000
32	3200	71	7100
33	3300	72	7200
34	3400	73	7300
35	3500	74	7400
36	3600	75	7500
37	3700	76	7600
38	3800	77	7700
39	3900	78	7800
40	4000	79	7900
41	4100	80	8000
42	4200	81	8100
43	4300	82	8200
44	4400	83	8300
45	4500	84	8400
46	4600	85	8500
47	4700	86	8600
48	4800	87	8700
49	4900	88	8800
50	5000	89	8900
51	5100	90	9000
52	5200	91	9100
53	5300	92	9200
54	5400	93	9300
55	5500	94	9400
56	5600	95	9500
57	5700	96	9600
58	5800	97	9700
59	5900	98	9800
60	6000	99	9900
61	6100		

COLOR MACROS

Color	DMX Value	RGBW COLOR INTENSITY				Color	DMX Value	RGBW COLOR INTENSITY			
		RED	GREEN	BLUE	W/A			RED	GREEN	BLUE	WHITE
Off	0	0	0	0	0	Color Macro 33	129-132	255	206	143	0
Color Macro 1	1-4	80	255	234	80	Color Macro 34	133-136	254	177	153	0
Color Macro 2	5-8	80	255	164	80	Color Macro 35	137-140	254	192	138	0
Color Macro 3	9-12	77	255	112	77	Color Macro 36	141-144	254	165	98	0
Color Macro 4	13-16	117	255	83	83	Color Macro 37	145-148	254	121	0	0
Color Macro 5	17-20	160	255	77	77	Color Macro 38	149-152	176	17	0	0
Color Macro 6	21-24	223	255	83	83	Color Macro 39	153-156	96	0	11	0
Color Macro 7	25-28	255	243	77	77	Color Macro 40	157-160	234	139	171	0
Color Macro 8	29-32	255	200	74	74	Color Macro 41	161-164	224	5	97	0
Color Macro 9	33-36	255	166	77	77	Color Macro 42	165-168	175	77	173	0
Color Macro 10	37-40	255	125	74	74	Color Macro 43	169-172	119	130	199	0
Color Macro 11	41-44	255	97	77	71	Color Macro 44	173-176	147	164	212	0
Color Macro 12	45-48	255	74	77	71	Color Macro 45	177-180	88	2	163	0
Color Macro 13	49-52	255	83	134	83	Color Macro 46	181-184	0	38	86	0
Color Macro 14	53-56	255	93	182	93	Color Macro 47	185-188	0	142	208	0
Color Macro 15	57-60	255	96	236	96	Color Macro 48	189-192	52	148	209	0
Color Macro 16	61-64	238	93	255	93	Color Macro 49	193-196	1	134	204	0
Color Macro 17	65-68	163	87	255	87	Color Macro 50	197-200	0	145	212	0
Color Macro 18	69-72	150	90	255	90	Color Macro 51	201-204	0	121	192	0
Color Macro 19	73-76	100	77	255	77	Color Macro 52	205-208	0	129	184	0
Color Macro 20	77-80	77	100	255	77	Color Macro 53	209-212	0	83	115	0
Color Macro 21	81-84	67	148	255	67	Color Macro 54	213-216	0	97	166	0
Color Macro 22	85-88	77	195	255	77	Color Macro 55	217-220	1	100	167	0
Color Macro 23	89-92	77	234	255	77	Color Macro 56	221-224	0	40	86	0
Color Macro 24	93-96	158	255	144	144	Color Macro 57	225-228	209	219	182	0
Color Macro 25	97-100	255	251	153	153	Color Macro 58	229-232	42	165	85	0
Color Macro 26	101-104	255	175	147	147	Color Macro 59	233-236	0	46	35	0
Color Macro 27	105-108	255	138	186	138	Color Macro 60	237-240	8	107	222	0
Color Macro 28	109-112	255	147	251	147	Color Macro 61	241-244	255	0	0	0
Color Macro 29	113-116	151	135	255	138	Color Macro 62	245-248	0	255	0	0
Color Macro 30	117-120	99	0	255	100	Color Macro 63	249-252	0	0	255	0
Color Macro 31	121-124	138	169	255	138	Color Macro 64	253-255	0	0	0	255
Color Macro 32	128-128	255	255	255	255						

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
1900	0000-FFFF	4803	4CH, 5CH, 9CHA, 9CHB, 13CH, 15CH

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

Parameter ID	Code
DISC_UNIQUE_BRANCH	0x0001
DISC_MUTE	0x0002
DISC_UN_MUTE	0x0003
SUPPORTED_PARAMATERS	0X0050
DEVICE_INFO	0x0060
MANUFACTURER_LABEL	0x0081
DEVICE_LABEL	0x0082
SOFTWARE_VERSION_LABEL	0x00C0
DMX_PERSONALITY	0x00E0
DMX_START_ADDRESS	0x00F0
SENSOR_VALUE	0x0201c
CURVE_DESCRIPTION	0x0344
IDENTIFY_DEVICE	0X1000
DMX_FAIL_MODE	0x0141

UC IR REMOTE

This unit can be operated using the ADJ UC IR24 remote control. **The unit can only be controlled when it has been set to Primary mode. The unit will NOT respond to commands when it has been set to Secondary mode.** When using the UC IR to control multiple units that are operating in primary/secondary mode, follow these steps to set up the units:

1. Power on the unit, and press MODE to scroll to the “Personality” menu, then press SETUP.
2. Use the UP and DOWN buttons to scroll to “Prim/Sec Mode”. Press SETUP, then use the UP and DOWN buttons set the device to “Primary”. The unit will NOT respond to IR remote commands when it has been set to “Secondary” mode.
3. Press SETUP to confirm and return to the “Personality” menu.
4. Use UP and DOWN to scroll to “IR Function” and press SETUP.
5. Use the UP and DOWN buttons to scroll to “ON”, then press SETUP to confirm.

CONTROLS

- **On:** Fixture turns on and reverts to the last running state
- **Off:** Fixture goes into stand by mode in a blackout state.
- **Strobe:** Activates strobe mode. The strobe rate can be adjusted using the + /- buttons.
- **Sound:** This button has no defined function for this unit.
- **Color:** Activates color mode. Select a static color (0-15) using the number keys. The intensity for the set color can then be adjusted with the +/- buttons.
- **Program:** Activates program mode. Select an internal program (0-15) using the number keys. The selected program run speed can be adjusted with the +/- buttons. *Note: 13 of the 15 buttons will activate a program for this unit.*
- **+ and - buttons:** Adjusts strobe rate, mic sensitivity, intensity, or program run speed. The +/- buttons can be repeatedly pressed to increase or decrease by individual level increments, or pressed and held to quickly make large adjustments at once.
- **Number Keys (0-15):** These buttons are used to select preset static colors and internal programs. Colors stored in the number keys can be edited from the units menu if desired.



IR DEFAULT VALUES

BUTTON	RED	GREEN	BLUE	AMBER
0	255	255	255	255
1	255	0	0	0
2	0	255	0	0
3	0	0	255	0
4	255	46	0	0
5	0	255	28	0
6	17	0	75	0
7	255	83	0	63
8	0	255	52	0
9	32	0	75	22
10	0	0	0	255
11	0	114	160	0
12	100	0	97	0
13	255	255	0	255
14	0	75	136	0
15	146	0	80	0

EDITING IR BUTTON VALUES

These fixtures allow the user to create custom RGBAL+UV values and assign them to the numbered keys (0-15) on the remote control. Follow the steps below:

1. In the main system menu, press MODE to navigate to “Personality,” then press SETUP. Use the UP and DOWN buttons to scroll to “IR Button Colors,” then press SETUP again.
2. Use the UP and DOWN buttons to scroll to the number of the remote button that you would like to use. Options range from “Button 0” to “Button 15.” Press SETUP to select the button shown on the display screen.
3. Create a custom color for the button you have selected by using the UP and DOWN buttons to scroll through the color component options (Red, Green, Blue, Amber, Lime, or UV). Press SETUP to select a color component option, then use the UP and DOWN buttons to adjust the intensity of that color component option. Selectable values range from 000 to 255. Repeat this process until you have set the desired Red, Green, Blue, Amber, Lime, and UV intensities to create your custom color.

NOTE: Once you have created and assigned a custom RGBAL+UV value to a remote button, the default color for the remote button will be overridden. This means that the output color of the fixture may no longer resemble the color shown on the remote button. The only way to return to the default RGBAL+UV value is to reset the unit to the default factory settings by navigating to Personality > Service > Factory Restore.

NOTE: If multiple units have been linked in a primary-secondary set up, the custom RGBAL+UV values only need to be set up on the primary unit. The custom RGBA settings will carry over automatically to any secondary units in the system.L+UV

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

FUSE REPLACEMENT

Locate and remove the unit's power cord. Once the cord has been removed, locate the fuse holder 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.

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 periodically 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 ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition in order to prevent overheating.
- 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.
- 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 or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.
- **NEVER** remove the ground prong from the power cable.

SPECIFICATIONS

Optical:

- 300-Watt Quad RGBA C.O.B. LED (Chip On Board - Red, Green, Blue & Amber)
- Life expectancy: rated at 50,000 hrs.
- Manual Zoom: 9, 15, 20, 25, 30, 35 or 40-degrees
- Zoom Ratio: 4.4:1

Photometrics:

- 5230 Lux (Zoomed In to 9°)
- 597 Lux (Zoomed Out to 40°)
- CRI: >90

Connection:

- DMX: 5-pin DMX In/Out
- With Wired Digital Communication Network
- Locking power In/Out connections

Control:

- DMX-512 and Aria X2 Wireless DMX / APP
- 6 DMX control modes: (4/5/9A/9B/13 & 15 Ch. modes)
- RDM and RDM Net Compatible
- Primary/Secondary, stand-alone mode
- On-board manual control mode

Features:

- Aria X2 Compatible
- Linear white color temperature control (2300K ~ 9900K)
- Color Temperature Presets (2300K ~ 9900K)
- 4-button DMX menu display on rear panel
- OLED display
- Adjustable latch to manually change beam angle
- Includes gel frame for diffusion filters (Diffusion filter sold separately)
- 64 Built-in Color Macros
- 13 Built-in Internal Programs
- Strobe Rate: 0.6Hz to 7.5Hz
- Selectable Refresh Rates: 900Hz, 1000Hz, 1100Hz, 1200Hz, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 10KHz, 15KHz, 20KHz, 25KHz
- Electronic Dimming: 0 - 100%
- 6 Dim Modes
- 4 Dim Curves
- On-board, color balance feature for each color (RGBA)

Electrical:

- Power Draw Total (All LED's @ Full On): 320W
- Power Consumption: 2.7A @ 120V/60Hz ; 1.5A @ 220V/50Hz
- Multi-voltage operation: AC 100-240V, 50/60Hz
- Daisy chain: 2 fixtures @ 120V; 4 fixtures @ 230V
- Fuse protected: 8A/250V

Ambient Temperature Range (For Use):

- -4° ~ 104°F (-20°C ~ 40°C)

Storage Temperature Range:

- -22° ~ 113°F (-30°C ~ 45°C)

Dimensions / Weight:

- Dimensions (LxWxH): 10.66" x 12.92" x 20.68" / 271 x 328 x 525mm
- Weight: 13.23 lbs. / 6kg.

IP Rating / Approvals:

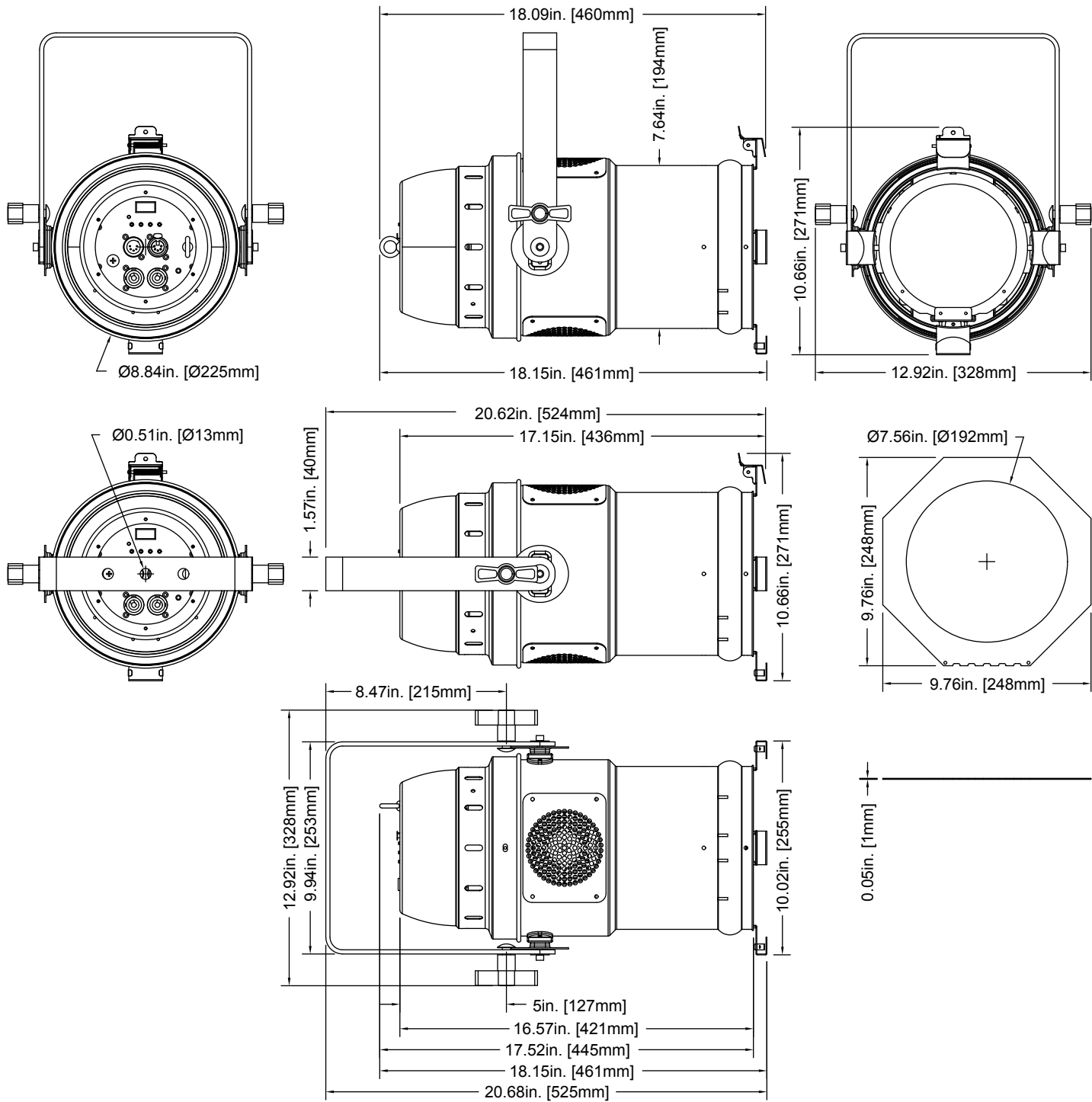
- IP20, CE, FCC, ETL Approved



Specifications and documentation subject to change without notice.

DIMENSION DRAWINGS

Drawings not to scale



ORDERING INFORMATION

ORDER CODE		ITEM
US	EU	
PAR843	N/A	PAR Z300 RGBA
TRIGGER CLAMP	N/A	Heavy Duty Wrap Around Hook Style Clamp
TOU027	N/A	5 ft. (1.5m) 5pin PRO DMX Cable
		Additional Cable Lengths Available



FCC STATEMENT

Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could 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, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

