



# **DOTZ PAR 100**



**User Manual**

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## 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](http://www.adj.com) for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
09/2020	1.0	1.0	3 / 4 / 5 / 9 Channels	Initial Release.
10/25/2021	1.1	N/C	No Change	Updated Formatting
11/28/2022	1.2	1.07	No Change	Updated System Menu, DMX Traits, Color Macros Chart

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!

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# INTRODUCTION

**Unpacking:** Thank you for purchasing the Dotz Par 100 by ADJ Products, LLC. Every Dotz Par 100 has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Introduction:** The Dotz Par 100 is part of ADJ's continuing pursuit for creating high quality affordable intelligent fixtures. The Dotz Par 100 is a high performance, DMX intelligent, moving head LED fixture. This fixture is a great piece for retail stores, displays, mood, architectural, interior and exterior decoration, and clubs. This unit can be used as a stand alone, or in a Primary/Secondary configuration. The unit can also be controlled via DMX controller. This fixture is suitable for theaters, studios, retail stores, and other similar locations.

**Customer Support:** ADJ Products, LLC provides a toll free customer support line to answer any questions that may arise during set up or initial operation. You may also visit us on the web at [www.adj.com](http://www.adj.com) for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337  
Fax: (323) 582-2941  
E-mail: [support@adj.com](mailto:support@adj.com)

To purchase parts online visit <http://parts.adj.com>.

**Warning!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

**CAUTION!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

*Do not discard the shipping carton in the trash. Please recycle when ever possible.*

# GENERAL INSTRUCTIONS

Please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit for future reference.

## FEATURES

- RGB Color Mixing
- Strobing
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- Four DMX Modes: 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, & 9 Channel Mode
- 4 Operating Modes - Sound Active, Auto Run, Built-In Programs, or DMX Control
- Power Cord Daisy Chain Capability (see ***Power Cord Daisy Chain*** section of this manual)

## WARRANTY REGISTRATION

The Dotz Par 100 carries a 2 year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase and warranty. You may also register your product online at our web site: [www.adj.com](http://www.adj.com). All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact ADJ Products, LLC customer support for an R.A. number.

# SAFETY PRECAUTIONS

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the power outlet that is used matches the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover for any reason. There are no user serviceable parts inside.
- Never operate this unit with its cover removed.
- Never plug this unit into a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit if it has been damaged in any way.
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit from main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point at which they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer. See the **Cleaning** section of this manual for details.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen onto, or liquid has been spilled into, the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

# SETUP

**Power Supply:** The ADJ Dotz Par 100 contains an automatic voltage switch, which will automatically sense the voltage when it is plugged into a power source. With this switch there is no need to worry about the correct power voltage, and this unit can be plugged in anywhere.

**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, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable length 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 located in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX Operation):** The Dotz Par 100 can be controlled via DMX-512 protocol. The Dotz Par 100 has 4 DMX Channel Modes. The DMX address is set on the rear panel of the Dotz Par 100. Your unit and your DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

# SETUP

**Notice:** Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come into contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

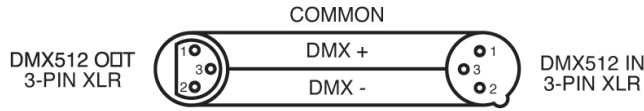


Figure 2

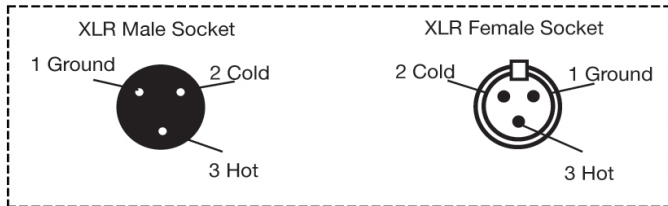
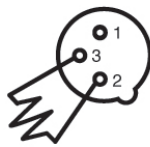


Figure 3

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

**Special Note: Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the risk of erratic behavior.



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

Figure 4

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

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



# SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel display located on the back of the fixture (pictured below) provides access to the main system menu where all necessary system adjustments are made to the fixture.

- During normal operation, pressing the MODE button once will access the fixture's main menu.
- Once in the main menu you can navigate through the different functions and access the sub-menus with the DOWN and UP buttons.
- Once you reach a field that requires adjusting, press the ENTER button to activate that field and use the DOWN and UP buttons to adjust the field.
- Pressing the ENTER button once more will confirm the setting.
- Exit the main menu at any time without making any adjustments by pressing the MODE button.



## KEY LOCK

The screen will lock after a certain period of inactivity. To unlock the screen, press and hold the MODE button for 3 seconds.

# SYSTEM MENU

SN1	Axxx	001 - 512	Address setting
	CHxx	03	DMX channel mode
		04	
		05	
		09	
	dCxx	00	Standard dimming mode
		01	Stage dimming mode
		02	TV dimming mode
		03	Architectural dimming mode
		04	Theatre dimming mode
	HOLd / bLC / Soun	HOLd	Hold last setting if DMX signal is lost
		bLC	Fixture goes to blackout mode if DMX signal is lost
		Soun	Fixture goes to sound active mode if DMX signal is lost
SN2	SECd		Secondary mode
SN3	rxxx	000 - 255	Red manual dimming
	Gxxx	000 - 255	Green manual dimming
	bxxx	000 - 255	Blue manual dimming
SN4	C-xx	01 - 32	Static color mode
SN5	P-xx	01	7 color change + 7 color fade program
		02	7 color change program (F invalid)
		03	7 color fade program
		04	3 color change program (F invalid)
		05	3 color fade program
		06	7 color dream and sound control program (F and S invalid)
		07	7 color change and sound control program (F and S invalid)
	F-xx	00 - 30	Fade speed, default = 00
S-xx	01 - 30	Change speed, default = 01	
SN6	rFxx	on	Remote control activated
		oF	Remote control deactivated
SN7	Soxx	00 - 30	Sound sensitivity adjustment
SN8	FA-x	0	Auto fan setting
		1	Low fan setting
		2	High fan setting

## UNIVERSAL DMX CONTROL

This function allows you to use a universal DMX-512 controller to control the chases and patterns, dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs. The Dotz Par 100 has 4 DMX channel modes; a 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, & 9 Channel Mode. See the **DMX Traits** section of this manual for detailed information.

- This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
- To run your fixture in DMX mode, follow the directions in the **Setup** section of this manual to set your DMX address and DMX Channel mode.
- Plug in the fixture via the XLR connections to any standard DMX controller.
- For longer cable runs (more than a 100 feet) use a terminator on the last fixture.

## PRIMARY-SECONDARY CONFIGURATION

This function will allow you to link up to 16 units together and operate without a controller. The units will be sound activated. In Primary-Secondary operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Primary or as a Secondary.

1. Using approved DMX data cables, daisy chain your units together via the XLR connectors on the rear of the units. Remember that the male XLR connector is the input, and the female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only, and the last unit in the chain will use the male XLR connector only. For longer cable runs, we suggest using a terminator on the last fixture.
2. On the Primary unit, set your desired operating mode.
3. On the secondary units press the MODE button until "SEcd" is displayed.
4. The secondary units will now follow the Primary unit.

# DOTZ PAR RF REMOTE

The Dotz Par 100 RF remote has many different functions and allows you to control your Dotz Par 100 remotely. The remote can control your system from a distance of up to 25 meters. To use the remote you must first activate the fixture's receiver, as directed in the **System Menu** section of this manual.

**BLACKOUT** - Pressing this button will blackout the fixture.

**FADE** - This button will activate the color fade program.

**COLOR** - This button will activate the static color mode. Use the "+" and "-" buttons to scroll through the colors and find your desired color.

**PROGRAMS** - This button will activate the built-in programs mode. Use the "+" and "-" buttons to scroll through the 13 programs and find your desired program.

**SOUND ACTIVE** - This button activates sound active mode.

**AUTO RUN** - This button will run an automatic program. Use the "+" and "-" buttons to adjust the speed of the auto run.

**"+" and "-"** - Use these buttons to adjust the speed of the Auto Run, scroll through the built-in programs, and scroll through the static colors.

# DMX TRAITS

CHANNEL				DMX VALUES	FUNCTION
3CH	4CH	5CH	9CH		
1	1	1	1	000 - 255	<b>Red</b> , 0% to 100%
2	2	2	2	000 - 255	<b>Green</b> , 0% to 100%
3	3	3	3	000 - 255	<b>Blue</b> , 0% to 100%
	4	4	4	000 - 255	<b>Master Dimmer</b> , 0% to 100%
			5		<b>Color Macros (Refer to Color Macros Chart; NOTE: Use of this channel disables the Red, Green, and Blue channels)</b>
				001 - 007	Color1
				008 - 015	Color2
				016 - 023	Color3
				024 - 031	Color4
				032 - 039	Color5
				040 - 047	Color6
				048 - 055	Color7
				056 - 063	Color8
				064 - 071	Color9
				072 - 079	Color10
				080 - 087	Color11
				088 - 095	Color12
				096 - 103	Color13
				104 - 111	Color14
				112 - 119	Color15
				120 - 127	Color16
				128 - 135	Color17
				136 - 143	Color18
				144 - 151	Color19
				152 - 159	Color20
				160 - 167	Color21
				168 - 175	Color22
				176 - 183	Color23
				184 - 191	Color24
				192 - 199	Color25
				200 - 207	Color26
				208 - 215	Color27
				216 - 223	Color28
				224 - 231	Color29
				232 - 239	Color30
				240 - 247	Color31
			248 - 255	Color32	

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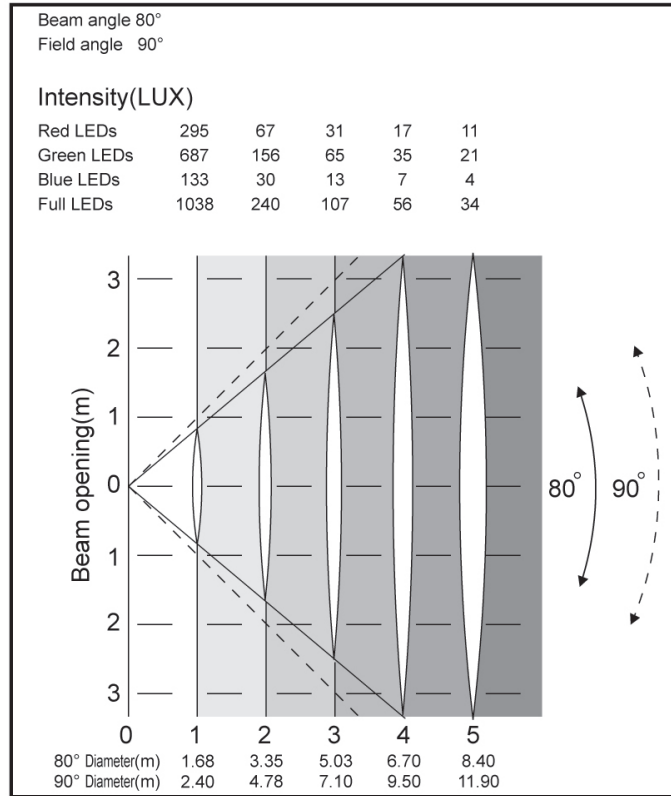
# DMX TRAITS

CHANNEL				DMX VALUES	FUNCTION
3CH	4CH	5CH	9CH		
			6		<b><i>Programs</i></b>
				000	Off
				001 - 020	Program 1
				021 - 040	Program 2
				041 - 060	Program 3
				061 - 080	Program 4
				081 - 100	Program 5
				101 - 120	Dream Sound Control
				121 - 140	Change Sound Control
			141 - 255	No Function	
			7		<b><i>Program Speed/Sound Sensitivity</i></b>
				000 - 255	Program Speed, slow to fast (when Programs channel is set between 001 - 100)
				000 - 255	Sound Sensitivity, least to most sensitive (when Programs channel is set between 101 - 140)
				000 - 255	Blackout (when Programs channel is set between 141 - 255)
			8		<b><i>Strobing</i></b>
				000 - 031	Strobe Off
				032 - 095	Strobe Speed, slow to fast
				096 - 127	Strobe Off
				128 - 159	Pulse Strobe, slow to fast
				160 - 191	Strobe Off
				192 - 223	Random Strobe, slow to fast
			224 - 255	Strobe Off	
		5	9		<b><i>Dimming Modes</i></b>
				000 - 041	Standard
				042 - 084	Stage
				085 - 127	TV
				128 - 170	Architectural
				171 - 213	Theatre
			214 - 255	Default to display	

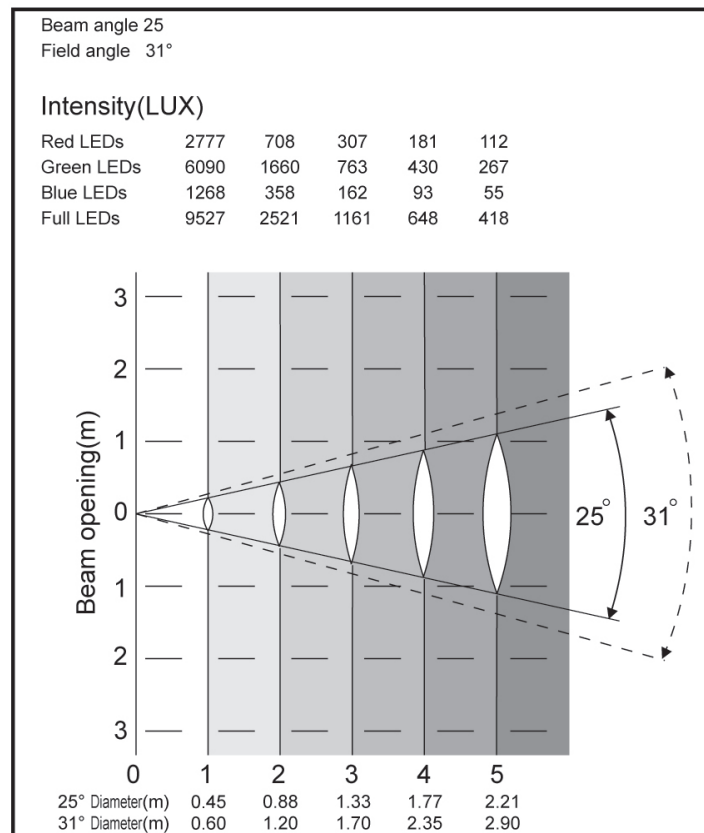
# COLOR MACRO CHART

<b>COLOR</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>
Color1	255	206	143
Color2	254	177	153
Color3	254	192	138
Color4	254	165	98
Color5	254	121	0
Color6	176	17	0
Color7	96	0	11
Color8	234	139	171
Color9	224	5	97
Color10	175	77	173
Color11	119	130	199
Color12	147	164	212
Color13	88	2	163
Color14	0	38	86
Color15	0	142	208
Color16	52	148	209
Color17	1	134	201
Color18	0	145	212
Color19	0	121	192
Color20	0	129	184
Color21	0	83	115
Color22	0	97	166
Color23	1	100	167
Color24	0	40	86
Color25	209	219	182
Color26	42	165	85
Color27	0	46	35
Color28	8	107	222
Color29	255	0	0
Color30	0	252	0
Color31	0	0	255
Color32	255	255	255

# PHOTOMETRICS



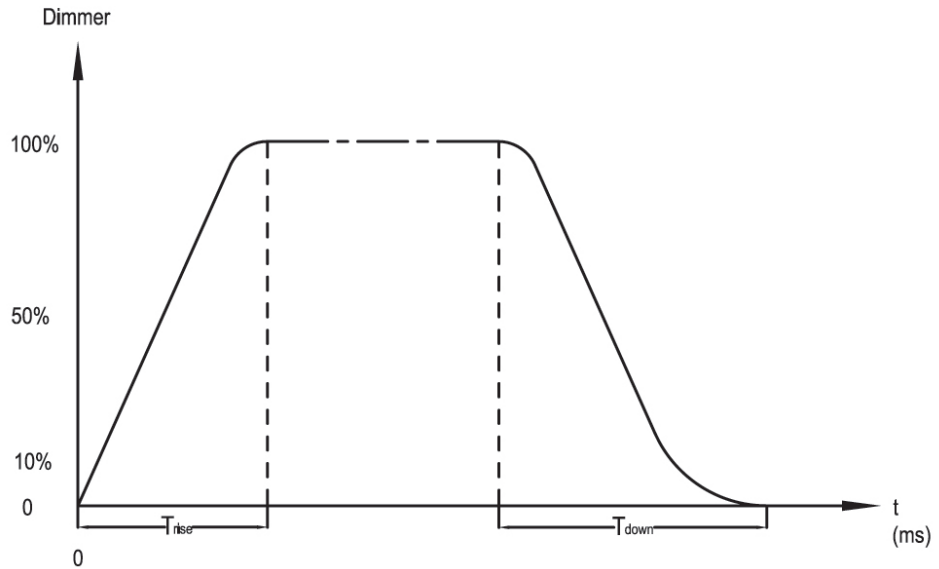
Lens Off



Lens On



# DIMMER CURVE CHART



Ramp Effect	0 $\square$ 255 0S (Fade Time)		0 $\square$ 255 1S (Fade Time)	
	$T_{rise}$ (ms)	$T_{down}$ (ms)	$T_{rise}$ (ms)	$T_{down}$ (ms)
Standard	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280

## POWER CORD DAISY CHAINING

This feature allows the devices to be linked together via the power input and output sockets.

**The maximum number of units that can be connected in this manner are as follows:**

- 9 fixtures maximum with 120V power.
- 19 fixtures maximum with 230V power.

**DO NOT EXCEED THIS MAXIMUM NUMBER.**

All fixtures linked in this manner should be of the same make and model type. DO NOT mix and match fixture model types.

## FUSE REPLACEMENT

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

## CLEANING

Due to fog residue, smoke, and dust, cleaning of the internal and external optical lenses must be carried out periodically to optimize light output.

Use a soft cloth to wipe down the outside casing. Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

## TROUBLESHOOTING

Listed below are a few common problems the user may encounter, with solutions.

### ***Unit not responding to DMX:***

Check that the DMX cables are connected and wired correctly (pin 3 is "hot"; on some other DMX devices, pin 2 may be "hot"). Check that all cables are connected to the correct connectors in the correct order. The way in which the input and output are connected can affect the operation of the device.

### ***Unit does not respond to sound:***

Quiet or high pitched sounds will not activate the unit.

If problems are not resolved, contact ADJ Products, LLC for service. 1-800-322-6337

# 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 the product back—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 prepaid. 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 and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic check-up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- 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 all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. 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 Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/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.

## MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)
- LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty)
- NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States.
- StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)
- ADJ DMX Controllers = 2 Year (730 Days)
- American Audio Products = 1 Year (365 Days)

# SPECIFICATIONS

Voltage:	100V - 240V, 50Hz/60Hz
LEDs:	1 x 100W COB Tri LEDs
Power Draw:	115W
Beam Angle:	25 Degrees 80 Degrees (w/o Lens Cover)
Fuse:	2 Amp (125V) 1 Amp (250V)
Power Cord Daisy Chain:	9 Fixtures Max (120V) 19 Fixtures Max (230V)
Weight:	6.8 Lbs / 3.1 Kgs
Dimensions:	201 x 120 x 201mm (w/o Bracket) 10" (L) x 5" (W) x 11.25" (H) 255 x 130 x 284mm (with Bracket)
Colors:	RGB Color Mixing
DMX Channels:	4 DMX Modes: 3-, 4-, 5-, & 9-Channel Mode
Working Position:	Any Safe Working Position
Warranty:	2 Year (730 days)
Approvals:	CE



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

**Please Note:** Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

ADJ Products, LLC  
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