

User Instructions



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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!

Par Z4

General Information

Unpacking: Thank you for purchasing the Par Z4 by ADJ Products, LLC. Every Par Z4 has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

Introduction: The Par Z4 is a DMX intelligent, zooming, mini LED fixture. The Par Z4 can operate as a stand alone fixture or in a Master/Slave set up. The Par Z4 has three operating modes; sound active mode, show mode, & DMX controlled. This fixture is suitable for theaters, studios, retail stores, and other similar locations. *For best results use fog or special effects smoke to enhance the beams projections.*

Customer Support: ADJ Products, LLC provides a toll free customer support line, to provide help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.adj.com for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2941
E-mail: support@americandj.com

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

Warning! *This may cause severe eye damage. Avoid looking directly into the light source at all times!*

Par Z4

General Instructions

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

Par Z4

Features

- DMX-512 Protocol Compatible (4 DMX Channel Modes: 4 Channels, 6 Channels, 8 Channels & 9 Channels)
- 3 Operating Modes - Sound Active, Show Mode, & DMX Control
- 5 Dimmer Curves (Standard, Stage, TV, Architectural, & Theatre)
- Internal Microphone
- Digital Display for Address and Function Setting
- Show Mode, Fade Mode, Static Color Mode, & RGBW Color Mix
- UC IR Compatible (Not Included)

Par Z4

Warranty Registration

The Par Z4 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 www.adjproducts.com. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty you must provide a copy of your proof of purchase invoice. Please contact ADJ Products, LLC customer support for a R.A. number.

Par Z4

Handling Precautions

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

During operation the housing may become extremely hot. Avoid touching the unit with bare hands while in use.

ADJ Products, LLC will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of 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 under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- 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 cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 23 for cleaning details.
- Heat -This fixture 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. Objects have fallen, or liquid has been spilled into the appliance.
 - B. The appliance has been exposed to rain or water.
 - C. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: The ADJ Par Z4 contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

DMX-512: *DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).*

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. *To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.*

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation):

The Par Z4 can be controlled via DMX-512 protocol. The Par Z4 four DMX channel modes; 4 channel mode, 6 channel mode, 8 channel mode, & 9 channel mode. The DMX address is set electronically using the controls on the front panel of the unit. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and



Figure 1

lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

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

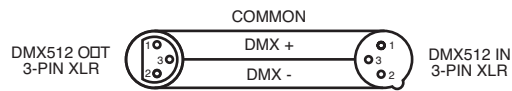


Figure 2

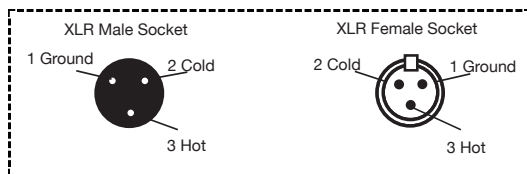


Figure 3

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 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

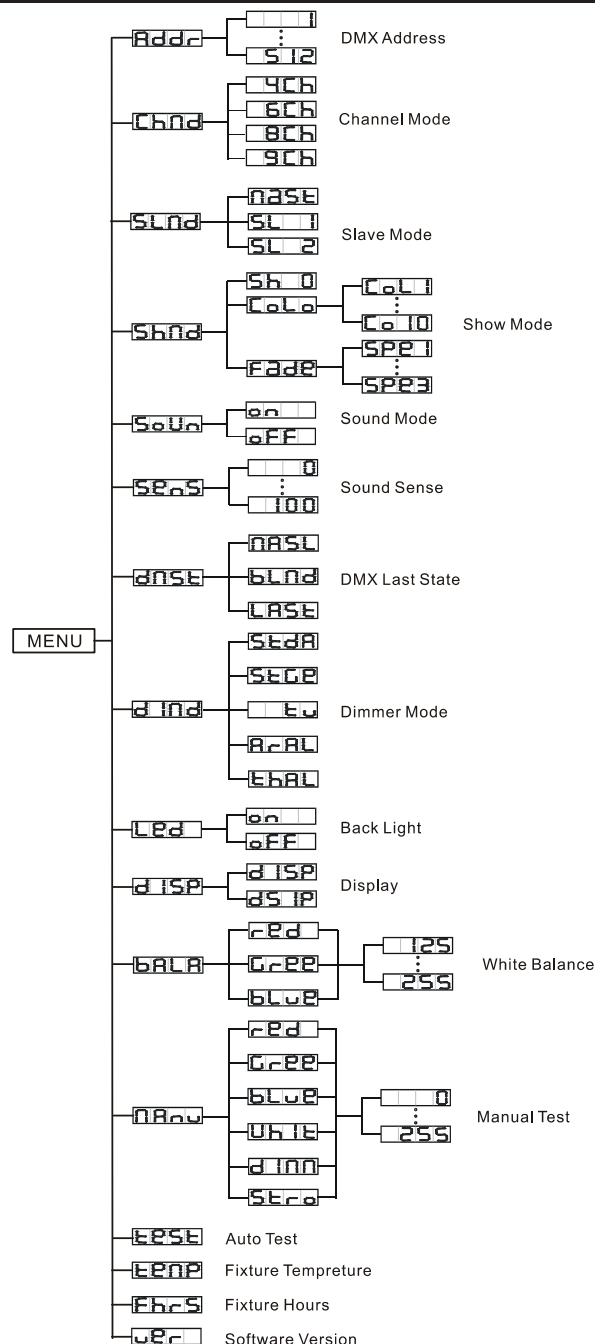


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use



System Menu: When making adjustments press **ENTER** to confirm your setup then press and hold the **MENU** button for at least 3 seconds. To exit without making any adjustments press the **MENU** button. The display will lock after 30 seconds, press the **MENU** button for 3 seconds to unlock.

ADDR - DMX Address Setting.

1. Press the either the MENU, UP, or DOWN buttons until “**ADDR**” is displayed, press ENTER.
2. The current address will now be displayed and flashing. Press the UP or DOWN buttons to find your desired address. Press ENTER to set your desired DMX address.

CHND - This will let select your desired DMX channel mode.

1. Press the either the MENU button until “**CHND**” is displayed, press ENTER. The current DMX channel mode will be displayed.
2. Press the UP or DOWN buttons to find your desired DMX channel mode and press ENTER to confirm and exit.

SLND - This will let you set unit as a master or slave in a master/slave configuration.

1. Press the MENU button until “**SLND**” is displayed, press ENTER. Either “**MAST**”, “**SL 1**”, or “**SL 2**” will be displayed.
2. Press the UP or DOWN buttons until your desired setting is displayed, press ENTER to confirm.

NOTE: In a Master/Slave configuration you can set one fixture to Master and then set the next fixture to “**SL 2**”, the fixtures will now have contrast movement to each other.

SHND - In this mode you can run a show mode, fade show, static color mode, or RGBW dimmer mode.

1. Press the MENU button until “**SHND**” is displayed, press ENTER.
2. Either “**Sh 0**”, “**Colo**”, or “**Fade**” will now be displayed. Use the UP or DOWN buttons to find your desired show mode.
3. Select “**Sh 0**” and press ENTER. The unit will now run a random show.
4. Select “**Fade**” and press ENTER. Use the UP and DOWN buttons to adjust the fade speed.
5. Select “**Colo**” and press ENTER. “**Col X**” will be displayed. “X” is current static color number displayed. Use the UP and DOWN buttons to find your desired color.
6. If you select “**Co 10**” this is RGBW dimmer mode. Press the ENTER button and “**Red**” will be displayed. Press ENTER and you are now able to use the UP or DOWN buttons to adjust the output intensity. Press ENTER to save the set output intensity for RED. Press the UP or DOWN buttons to move to the next color and press ENTER to enter the output intensity setting for that color.
7. When you have found your desired setting, press and hold the MENU button for at least 3 seconds to activate.

SOUN - Sound Active mode.

1. Press the MENU button until “**SOUN**” is displayed, press ENTER.
2. The display will show either “**ON**” or “**OFF**”. Press the UP or DOWN buttons to select “**ON**” to activate sound active mode, or “**OFF**” to deactivate sound active mode.
3. Press ENTER to confirm.

SENS - In this mode you can adjust the sound sensitivity.

1. Press the MENU button until “**SENS**” is displayed, press ENTER.
2. A number between 0-100 will be displayed. Press the UP or DOWN buttons to adjust the sound sensitivity. 0 being the least sensitive, and 100 being the most sensitive.
3. When you have found your desired setting press ENTER to confirm.

DNST - This mode can be used as a precaution mode, that in case the DMX signal is lost, interrupted, or power is lost, the operating mode chosen in the setup is the running mode the fixture will go into when the DMX signal is lost. You can also set this as the operating mode you would like the unit to return to when power is applied.

1. Press the MENU button until “**DNST**” is displayed, and either “**MASL**”, “**BLND**”, or “**LAST**” will be displayed beneath.
2. Press ENTER and the bottom choice will begin to flash. Use the UP or DOWN buttons to choose an operating mode you would like the unit to start up in when power is applied or the DMX signal is lost.
 - **MASL** (Master Slave) - If the DMX signal is lost or power is applied, the unit will automatically go into Master Slave mode and run a built-in show.
 - **BLND** (Blackout) - If the DMX signal is lost or interrupted, the unit will automatically go into stand by mode.
 - **LAST** - If the DMX signal is lost the fixture will stay in the last DMX setting. If power is applied and this mode is set, the unit will automatically go into the last DMX set up.

3. Press ENTER to confirm your desired set up.

DIND - This will let select your desired dimmer curve.

1. Press the MENU button until “**DIND**” is displayed, and press ENTER. 1 of 5 dimmer curves will be displayed. “**STDA**” (standard), “**STGE**” (stage), “**TV**” (TV), “**ARAL**” (Architectural), or “**THAL**” (Theatre). See the dimmer curve chart on page 22 for more info.

2. Press the UP or DOWN buttons to find your desired dimmer curve and press ENTER to confirm and exit.

LED - With this function you can have the display backlight turn off after 10 seconds.

1. Press the MENU button until “**LED**” is displayed, press ENTER.

2. The display will show either “**ON**” or “**OFF**”. Press the UP or DOWN buttons to select “**ON**” to keep the LED display on at all times, or “**OFF**” to switch to have the LED display switch off after 10 seconds.

3. Press ENTER to confirm. To make you LED display reappear again press any button.

DISP - This function will reverse the display 180°.

1. Press the either the MENU button until “**DISP**” is displayed, press ENTER.

2. Press the UP button to select “**DSIP**” to “flip” the display, or “**DISP**” to revert the display to normal.

3. Press ENTER to confirm.

BALA - With this function you can adjust the RGB colors to balance out the white color.

1. Press the MENU button until “**BALA**” is displayed, press ENTER.

2. Use the UP or DOWN buttons to find the color you wish to adjust.

3. Once you find the color you want to adjust press ENTER, the displayed value will begin to flash. Use the UP or DOWN buttons to adjust the value. Once you have made your adjustment press ENTER.

4. Repeat steps 2-3 until satisfied.

MANU - This function will allow you to manually adjust each LED output intensity, dimmer intensity, and strobe rate. This function is also a manual testing mode.

1. Press the MENU button until “**MANU**” is displayed, press ENTER.

2. Use the UP and DOWN buttons to scroll through the various LED colors, master dimmer, and storbe setting. Once you have found your desired function you would like to adjust press ENTER.

3. After you have pressed ENTER, use the UP and DOWN buttons to adjust the values. Once you have adjusted the output intensity of each color and the master dimmer, and set your desired strobe setting do not exit this function. Your settings will remain until you press the MENU button to exit.

TEST - This function will run a self test program.

1. Press the MENU button until “**TEST**” is displayed, press ENTER.

2. The fixture will now run a self test.

TEMP - With this function you can check the temperature of the fixture.

1. Press the MENU button until “**TEMP**” is displayed, press ENTER.
2. The fixture temperature will now be displayed. Press MENU to exit.

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

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

VER - Use this function to display the Software version of the unit.

1. Press the either the MENU button until “**VER**” is displayed, press ENTER.
2. The display will show the software version.

Universal DMX Control: This function allows you to use a universal DMX-512 controller to control the colors, master dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Par Z4 has 4 DMX channel modes; 4 channel mode, 6 channel mode, 8 channel mode, and 9 channel mode. See pages 18-20 for detailed description of the DMX values and traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 7-9 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller’s faders to control the various DMX fixture traits.
4. This will allow you to create your own programs.
5. Follow the instruction on page 9 to select your DMX channel mode and set your desired DMX address.
6. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
7. For help operating in DMX mode consult the manual included with your DMX controller.

Sound Active Mode: This mode allows either single unit or several units linked together, to run to the beat of the music.

1. Press the MENU button until “**SOUN**” is displayed, and press ENTER. Press the UP or DOWN buttons so that “**ON**” is displayed and press ENTER.
2. Press the MENU button until “**SENS**” is displayed, and press ENTER. Use the UP and DOWN buttons to adjust the sound sensitivity. Press ENTER when you have found your desired sensitivity level.

Show Mode: This mode allows either a single unit or several units linked together, to run either a show mode, fade mode, static color, or RGBW dimmer mode.

1. Press the MENU button until “**SHND**” is displayed, and press ENTER.
2. Press the UP or DOWN buttons to find your desired setting. Follow the instructions on page 10 for the individual shows and settings.

Par Z4

Master-Slave Set Up

Master-Slave Operation This function will allow you to link up to 16 units together and operate without a controller. In a Master-Slave set up, one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Using approved DMX data cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
2. On the Master unit press the MENU button until “**SLND**” is displayed, and press ENTER. Use the UP and DOWN buttons to scroll to the “**MAST**” setting and press ENTER.
3. After setting the Master unit to the master setting find and set your desired operating mode.
4. On the slave units press the MENU button until “**SLND**” is displayed, and press ENTER. Choose either “**SL 1**” or “**SL 2**” and press ENTER. See page 9 for more info.
5. The slave units will now follow the Master unit.

Par Z4

Zoom Function

To adjust/use the zoom feature, rotate the knob located on the bottom front of the unit frame. To zoom out or widen the beam rotate the knob counter-clockwise. To zoom in or narrow the beam rotate the knob clockwise.

Par Z4

UC IR Operation

The **ADJ UC IR (sold separately)** infrared remote gives you control of various functions. To control the fixture you must aim the remote at the front of the fixture and be no more than 30 feet away.

STAND BY - Pressing this button will blackout the fixture.

FULL ON - Hold this button down to for full intensity. When you let the button go, the unit will return to its regular intensity.

FADE/GOBO - This button is invalid for this fixture.

“DIMMER +” and “DIMMER -” - Use these buttons to adjust the output intensity.

STROBE - This button will activate the strobe effect. Press the button hold for strobing.

COLOR - Press this button to enter color mode. Use the 1-9 buttons to select your desired color. Adjust the output intensity using the “DIMMER +” and “DIMMER -” buttons.

1-9 - In color mode, these buttons will allow you to select a desired color.

SOUND ON & OFF - These buttons activate and deactivate the sound active mode.

SHOW - This button is invalid for this fixture.

Par Z4 4 Channel Mode		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	WHITE 0% - 100%

Par Z4 6 Channel Mode		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	WHITE 0% - 100%
5	0 - 7 8 - 15 16 - 131 132 - 139 140 - 181 182 - 189 190 - 231 232 - 239 240 - 247 248 - 255	SHUTTER/STROBE LED OFF LED ON STROBING SLOW - FAST LED ON SLOW OPEN - FAST CLOSE LED ON SLOW CLOSE - FAST OPEN LED ON RANDOM STROBE SLOW - FAST LED ON
6	0 - 255	MASTER DIMMER 0% - 100%

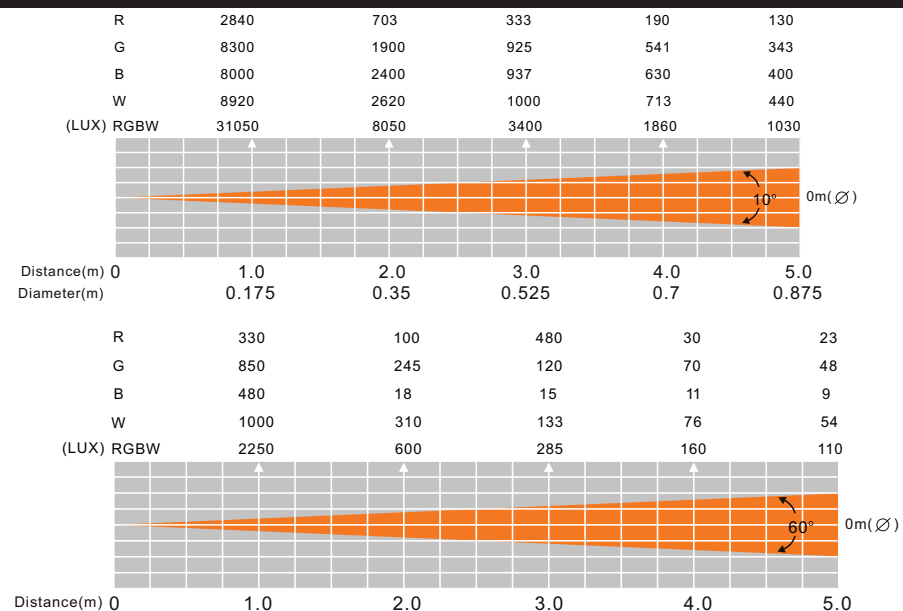
Par Z4 8 Channel Mode		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	WHITE 0% - 100%
5	0 - 255	COLOR MACROS See Color Macro Chart on page 21
6	0 - 7 8 - 15 16 - 131 132 - 139 140 - 181 182 - 189 190 - 231 232 - 239 240 - 247 248 - 255	SHUTTER/STROBE LED OFF LED ON STROBING SLOW - FAST LED ON SLOW OPEN - FAST CLOSE LED ON SLOW CLOSE - FAST OPEN LED ON RANDOM STROBE SLOW - FAST LED ON
7	0 - 255	MASTER DIMMER 0% - 100%
8	0 - 20 21 - 40 41 - 60 61 - 80 81 - 100 101 - 255	DIMMER CURVES STANDARD STAGE TV ARCHITECTURAL THEATRE DEFAULT DIMMER SETTING

Par Z4 9 Channel Mode		
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	WHITE 0% - 100%
5	0 - 255	COLOR MACROS See Color Macro Chart on page 21
6	0 - 7 8 - 15 16 - 131 132 - 139 140 - 181 182 - 189 190 - 231 232 - 239 240 - 247 248 - 255	SHUTTER/STROBE LED OFF LED ON STROBING SLOW - FAST LED ON SLOW OPEN - FAST CLOSE LED ON SLOW CLOSE - FAST OPEN LED ON RANDOM STROBE SLOW - FAST LED ON
7	0 - 255	MASTER DIMMER 0% - 100%
8	0 - 20 21 - 40 41 - 60 61 - 80 81 - 100 101 - 255	DIMMER CURVES STANDARD STAGE TV ARCHITECTURAL THEATRE DEFAULT DIMMER SETTING
9	0 - 255	COLOR TEMP. 7200K - 3200K

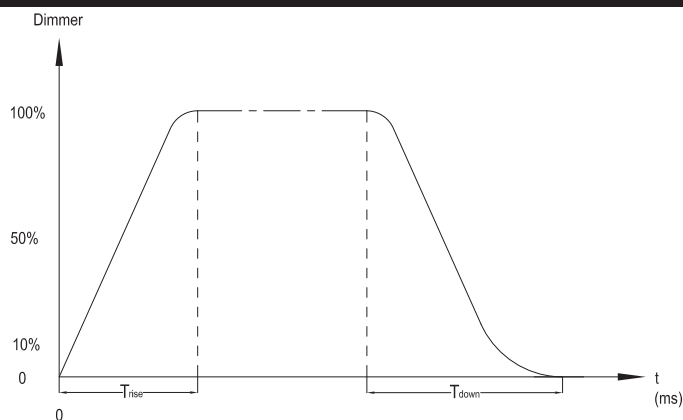
Color No.				DMX				RGBW COLOR INTENSITY				Color No.				DMX				RGBW COLOR INTENSITY						
VAULE				RED	GREEN	BLUE	WHITE	VAULE				RED	GREEN	BLUE	WHITE	VAULE				RED	GREEN	BLUE	WHITE			
OFF				0	0	0	0	Color33				129-132	255	206	143	0	Color34				133-136	254	177	153	0	
Color1				1-4	80	255	234	80	Color35				137-140	254	192	138	0	Color36				141-144	254	165	98	0
Color2				5-8	80	255	164	80	Color37				145-148	254	121	0	0	Color38				149-152	176	17	0	0
Color3				9-12	77	255	112	77	Color39				153-156	96	0	11	0	Color40				157-160	234	139	171	0
Color4				13-16	117	255	83	83	Color41				161-164	224	5	97	0	Color42				165-168	175	77	173	0
Color5				17-20	160	255	77	77	Color43				169-172	119	130	199	0	Color44				173-176	147	164	212	0
Color6				21-24	223	255	83	83	Color45				177-180	88	2	163	0	Color46				181-184	0	38	86	0
Color7				25-28	255	243	77	77	Color47				185-188	0	142	208	0	Color48				189-192	52	148	209	0
Color8				29-32	255	200	74	74	Color49				193-196	1	134	201	0	Color50				197-200	0	145	212	0
Color9				33-36	255	166	77	77	Color51				201-204	0	121	192	0	Color52				205-208	0	129	184	0
Color10				37-40	255	125	74	74	Color53				209-212	0	83	115	0	Color54				213-216	0	97	166	0
Color11				41-44	255	97	77	74	Color55				217-220	1	100	167	0	Color56				221-224	0	40	86	0
Color12				45-48	255	71	77	71	Color57				225-228	209	219	182	0	Color58				229-232	42	165	35	0
Color13				49-52	255	83	134	83	Color59				233-236	0	46	35	0	Color60				237-240	8	107	222	0
Color14				53-56	255	93	182	93	Color61				241-244	107	156	231	0	Color62				245-248	165	198	247	0
Color15				57-60	255	96	236	96	Color63				249-252	0	0	189	0	Color64				253-255	255	255	255	0
Color16				61-64	238	93	255	93																		
Color17				65-68	196	87	255	87																		
Color18				69-72	150	90	255	90																		
Color19				73-76	100	77	255	77																		
Color20				77-80	77	100	255	77																		
Color21				81-84	67	148	255	67																		
Color22				85-88	77	195	255	77																		
Color23				89-92	77	234	255	77																		
Color24				93-96	158	255	144	144																		
Color25				97-100	255	251	153	153																		
Color26				101-104	255	175	147	147																		
Color27				105-108	255	138	186	138																		
Color28				109-112	255	147	251	147																		
Color29				113-116	151	138	255	138																		
Color30				117-120	99	0	255	100																		
Color31				121-124	138	169	255	138																		
Color32				125-128	255	255	255	255																		

Color No.	DMX VAULE	RGBW COLOR INTENSITY			
		RED	GREEN	BLUE	WHITE
Color33	129-132	255	206	143	0
Color34	133-136	254	177	153	0
Color35	137-140	254	192	138	0
Color36	141-144	254	165	98	0
Color37	145-148	254	121	0	0
Color38	149-152	176	17	0	0
Color39	153-156	96	0	11	0
Color40	157-160	234	139	171	0
Color41	161-164	224	5	97	0
Color42	165-168	175	77	173	0
Color43	169-172	119	130	199	0
Color44	173-176	147	164	212	0
Color45	177-180	88	2	163	0
Color46	181-184	0	38	86	0
Color47	185-188	0	142	208	0
Color48	189-192	52	148	209	0
Color49	193-196	1	134	201	0
Color50	197-200	0	145	212	0
Color51	201-204	0	121	192	0
Color52	205-208	0	129	184	0
Color53	209-212	0	83	115	0
Color54	213-216	0	97	166	0
Color55	217-220	1	100	167	0
Color56	221-224	0	40	86	0
Color57	225-228	209	219	182	0
Color58	229-232	42	165	85	0
Color59	233-236	0	46	35	0
Color60	237-240	8	107	222	0
Color61	241-244	107	156	231	0
Color62	245-248	165	198	247	0
Color63	249-252	0	0	189	0
Color64	253-255	255	255	255	0

Par Z4 Photometric Chart



Par Z4 Dimmer Curve Chart



Ramp Effect	0 255 0S (Fade Time)		0 255 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

Par Z4 Fuse Replacement

Unplug the unit from any power source it may be connected to. Once the power has been disconnected, use a phillips head screw driver to unscrew the fuse holder located above the I.E.C. input. Remove the bad fuse and replace with a new one, and screw the fuse holder back in.

Par Z4 Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the cooling vents and fan grill.
3. Clean the external optics with glass cleaner and a soft cloth every 20 days.
4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
5. Always be sure to dry all parts completely before plugging the unit back in.

Par Z4 Trouble Shooting

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

No light output from the unit;

1. Be sure the external fuse has not blown. The fuse is located on the rear panel of the unit.
2. Be sure the fuse holder is completely and properly seated.

Unit does not respond to sound;

1. Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.

Par Z4

Warranty

MANUFACTURER'S LIMITED WARRANTY

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service you must obtain a Return Authorization number (RA#) before sending back the product—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear indentifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

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

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Par Z4

Specifications

Model:	Par Z4
Voltage:	100 - 240V, 50/60Hz
LED:	4 x 15W 4-in-1 RGBW LEDs
Power Consumption:	52W
Dimensions:	10.25"(L) x 7.25"(W) x 8.75"(H) 263 x 185 x 221mm (with Bracket) 10.25"(L) x 7.25"(W) x 4.75"(H) 263 x 185 x 118mm (w/o Bracket)
Weight:	5.5 Lbs. / 3.2 kgs.
Beam Angle:	10 - 60 Degrees
Fuse:	2 Amp
Duty Cycle:	None
DMX:	4 DMX Channel Modes: 4/6/8/9
Colors:	RGBW Color Mixing
Sound Active:	Yes
Working Position:	Any Safe, Secure Position
Warranty:	2 Year (730 days)

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

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

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