WIFLY PAR QA5

User Manual

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 Channels	Notes
08/2015	1.0	2.06	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 ch.	Initial Release
01/18/2022	1.1	N/C	No change	Corrected DMX Traits

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. 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 WiFly Par QA5 by ADJ Products, LLC. Every WiFly Par QA5 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 have been 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 WiFly Par QA5 is a rechargeable lithium battery powered, DMX intelligent, LED par fixture with ADJ's WiFly Transceiver with wireless DMX built-in. This unit gives you the freedom to set up your fixture wherever you wish without the restrictions of power or DMX cabling. The built-in battery will keep charge for up to 6 hours (full on) from a full, single charge. This fixture can be used in stand alone mode or connected in a Primary/Secondary configuration. This wash has five operating modes: Sound Active mode, Auto mode, RGB mode, Static Color mode, and DMX control mode.

Customer Support: ADJ Products, LLC provides a toll free customer support line to provide set up help and 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 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

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.

PLEASE recycle the shipping carton when ever possible.

FEATURES

- Rechargeable Lithium Battery
- Multi-Colors
- Five Operating Modes
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 3-Pin & 5-Pin DMX Connection
- 8 DMX Channel Modes: 1 Channel Mode, 2 Channel Mode, 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, 6 Channel Mode, 7 Channel Mode, & 8 Channel Mode
- Built-In ADJ's WiFly TransCeiver Wireless DMX
- ADJ RFC compatiable (Not Included)
- Power Cord Daisy Chain (see **Power Cord Daisy Chain** section of this manual)

WARRANTY REGISTRATION

The WiFly Par QA5 carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

INSTALLATION

The unit should be mounted using a mounting clamp (not provided), and affixing it to the mounting bracket that is provided with the unit. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure that you are attaching the unit to is secure and is able to support at least 10 times the unit's weight. In addition, always use a safety cable that can hold 12 times the weight of the unit when installing the fixture.

The equipment must be installed by a professional, and it must be installed in a place where it is out of the reach of the general public.

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.
- Do not attempt to operate this unit if the power cord is 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 the event 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 the 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's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed in such a way that 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, 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.

CAUTION: Like any wireless device, this unit is highly susceptible to static electricity. Static electricity can severly damage the unit. Before touching the antenna, please ground/discharge yourself.

BATTERY PRECAUTIONS

1. HANDLING OF BATTERIES

1.1 Do Not Short Circuit the Battery
Avoid short circuiting the battery. Doing so generates a very high current and battery overheating, which may result in electrolyte gel leakage, harmful fumes, or explosion. The LIR tabs are susceptible to short circuiting when placed on conductive surfaces. A short circuit may lead to heat build up and damage to the battery. Protective circuitry with PCM is employed to protect against accidental short circuiting of the battery pack.

1.2 Mechanical shock
Drops, impact hits, bending, etc. may cause failure or shortend life of the LIR battery.

2. OTHER

2.1 Battery connection
- Direct soldering of wire leads or devices to the battery is strictly prohibited.
- Lead tabs with pre-soldered wiring shall be spot welded to the batteries. Do not attempt direct soldering, as this may cause damage to battery components, such as the separator or insulator, due to heat build up.

2.2 Prevention of short circuit within a battery pack
There are sufficient layers of insulation between wiring and the batteries to provide extra protection against short circuiting. The battery pack is constructed in such a way as to prevent short circuits that could create a risk of fire or smoke.

2.3 Do No Disassemble the Batteries
- Never disassemble the batteries. Doing so may cause an internal short circuit in the battery, which may lead to harmful fumes, fire, explosion, or other hazards.
- Electrolyte Gel is extremey harmful. Electrolyte Gel should not leak from the LIR battery. Should the electrolyte gel come into contact with the skin or eyes, flush the area of contact immediately with fresh water and seek medical attention immediately.

2.4 Do Not Expose the Battery to Heat or Fire
Never incinerate or dispose of the batteries in fire. This could result in an explosion and other hazards.

2.5 Do Not Expose the Battery to water or liquids
Never soak/drop the batteries in liquids such as water, seawater, or beverages such as soft drinks, juices, or coffee.

2.6 Battery Replacement
For battery replacement please contact ADJ customer support (800) 322-6337.

BATTERY PRECAUTIONS

2.7 Do Not use a damaged Battery
There is the possibility that the battery could be damaged during shipping. Should the battery be found damaged, including damage to the plastic casing of the battery, deformation of the battery package, emission of electrolyte odors, leakage of the electrolyte gel, or other concerns, DO NOT use the battery. A battery with a odor of electrolyte or a gel leakage should be placed away from fire to avoid fire or explosion.

3. BATTERY STORAGE
When storing the battery, it should be stored at room temperature, with a charge of at least 50%. It is recommended that the battery be charged every 6 months during long periods of storage. Doing so will prolong the life of the battery and will also ensure battery is charged and ready for use.

4. OTHER CHEMICAL REACTIONS
Because batteries utilize a chemical reaction, battery performance will deteriorate over time, even if stored for a long period of time without being used. In addition, if various usage conditions, such as charge, discharge, ambient temperature, etc, are not maintained within the specified ranges, the life expectancy of the battery maybe shortened or the device in which the battery is used may be damaged by electrolyte gel leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate it is time to change the battery.

5. BATTERY DISPOSAL
Please dispose of depleted batteries according to local regulations.

DMX SET UP

Power Supply: The ADJ WiFly Par QA5 features an automatic voltage switch, which will automatically 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, 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 path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): The WiFly Par QA5 can be controlled via DMX-512 protocol. The WiFly Par QA5 has 8 DMX channel modes, and detailed information on these channels modes can be found in the **DMX Traits** section of this manual. The DMX address is set on the back panel of the device. Your unit and your DMX controller require a standard 3-pin or 5-pin XLR connector 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 pro 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

DMX SET UP

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 result in erratic behavior.
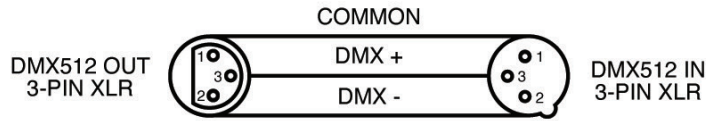
COMMON

DMX512 OUT
3-PIN XLR

DMX +

DMX -

DMX512 IN
3-PIN XLR

Figure 2

XLR Male Socket

1 Ground
2 Cold
3 Hot

XLR Female Socket

2 Cold
1 Ground
3 Hot
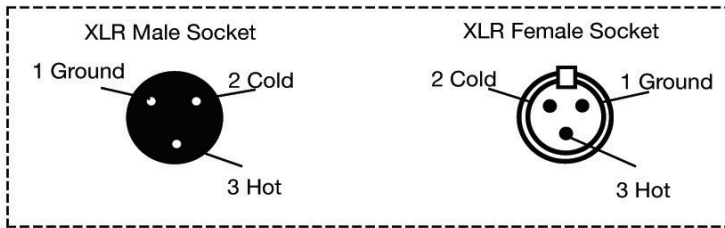
Figure 3

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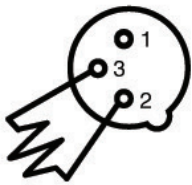
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-pin XLR 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 by using a cable adaptor, which can readily be found at most electronics 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

OPERATING INSTRUCTIONS

Operating Power:
There are two ways to supply power to this unit: battery power or AC power.
- *AC Power* - To run the unit using AC power, plug the unit into a power source, and put the Load Switch into the ON position. When using AC power make sure the Battery Switch is in the OFF position.
- *Battery Power* - To run the unit using Battery power, put the Load and Battery Switches in the ON position.

LED Display On/Off:
To set the LED display to turn off after 60 seconds, press the MODE button until "don" is displayed, then press the UP button to toggle to "doff". Now the display will disappear after 60s. Press any button to turn the display on again. Be advised that the display will turn off automatically after 10 seconds.
- "don" = LED display on at all times.
- "doFF" = LED display shuts off after 60 seconds.

LED Display Inversion:
Follow these instructions to flip the display 180° so that the display can be read upside down.
1. Plug the fixture in and press the MODE button until "dXX" is displayed. "XX" represents either "on" or "oFF".
2. Press the SET UP button until "Stnd" or "rev" is displayed.
3. Press the UP or DOWN buttons to select the desired option. "Stnd" orients the display normally, and "rev" inverts the display 180°.

Operating Modes:
The WiFly Par QA5 has five operating modes:
- *Static Color Mode* - There are 15 colors to choose from.
- *RGBA Mode* - Choose one of the four colors to remain static, or adjust the intensity of each color to create a custom color.
- *Auto Mode* - There are 3 Auto Modes to choose from.
- *Sound-Active mode* - The unit will react to sound, chasing through the built in programs.
- *DMX control mode* - Allows control each individual DMX trait with a standard DMX 512 controller.

RGBA Dimmer Mode:
1. Plug the fixture in and press the MODE button:
    - When "r.XXX" is displayed, you are in Red dimming mode. Press the UP and DOWN buttons to adjust intensity.
    - When "G.XXX" is displayed, you are in Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
    - When "b.XXX" is displayed, you are in Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
    - When "U.XXX" is displayed, you are in Amber dimming mode. Press the UP and DOWN buttons to adjust intensity.
2. After you have adjusted the RGBA colors to make your desired color, you can then activate strobing by pressing the SET UP button to enter the Flash (strobe) mode.
3. "FS.XX" will be displayed. Flash can now be adjusted between "FS.00" (flash off) and "FS.15" (fastest flash).

OPERATING INSTRUCTIONS

Sound Active Mode:
In this mode, the WiFly Par QA5 will react to sound, and chase through the different colors.
1. Plug the fixture in and press the MODE button until "SoXX" is displayed. "XX" represents the currently selected sound active mode (01-16).
2. The fixture will now change via sound.
3. Press the SET UP button to adjust the sound sensitivity. "SJ-X" should be displayed. Use the UP or DOWN buttons to adjust the sensitivity. "SJ-1" is the least sensitive, and "SJ-8" is the most sensitive.

Auto Run Mode:
In this mode, the WiFly Par QA5 will run an auto program. There are 3 types of Auto Run Modes to choose from: Color Fade, Color Change, and both modes running together. The running speed is adjustable in all 3 modes.
1. Plug the fixture in and press the MODE button until either "AFXX", "AJXX", or "A-JF" is displayed.
    • *AFXX = Color Fade mode* - There are 16 Color Fade modes to choose from. Use the UP or DOWN buttons to scroll through the different Auto Fade modes.
    • *AJXX = Color Change mode* - There are 16 Color Change modes to choose from. Use the UP or DOWN buttons to scroll through the different Auto Change modes.
    • *A-JF = Both Color Fade and Color Change modes running.*
2. After you have chosen your desired running mode press the SET UP button until "SP.XX" is displayed. At this point, the running speed of the selected program can be adjusted. Use the UP or DOWN buttons to adjust the speed between "SP.01" (slowest) and "SP.16" (fastest). Once you have set your desired running speed, press the SET UP button to return to your desired Auto Run Mode.

Static Color Mode:
1. Plug the fixture in and press the MODE button until "CLXX" is displayed. "XX" represents the number of the currently selected color.
2. There are 15 colors to choose from. Select your desired color by pressing the UP and DOWN buttons. After you have selected your desired color, you can activate strobing by pressing the SET UP button to enter the Flash (strobe) mode.
3. "FS.XX" will be displayed, indicating that the device is in Flash mode. The Flash can be adjusted between "FS.00" (flash off) to "FS.15" (fastest flash).

OPERATING INSTRUCTIONS

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. The WiFLY Par QA5 has 8 DMX modes: 1 Channel mode, 2 Channel mode, 3 Channel mode, 4 Channel mode, 5 Channel mode, 6 Channel mode, 7 Channel mode, and a 8 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.

1. To run your fixture in DMX mode, press the MODE button until "d.XXX" is displayed. "XXX" represents the currently selected address. Use the UP and DOWN buttons to select your desired DMX address, then press the SETUP button to select your DMX channel mode.
2. "ChXX" should will be displayed on the screen. "XX" represents the currently selected DMX Channel Mode.
3. Use the UP or DOWN buttons to scroll through the DMX Channel modes. The available channel modes are 1-channel, 2-channel, 3-channel, 4-channel, 5-channel, 6-channel, 7-channel, or 8-channel mode.
4. After you have chosen your desired DMX Channel mode, plug in the fixture via the XLR connections to any standard DMX controller.

Battery Life:

This menu is used to check/display the battery life. Plug the fixture in and press the MODE button until "bXXX" is displayed. "XXX" represents a number between 0-100. The number that is displayed is the remaining battery life. If "b---" is displayed, it means that either the battery is depleted or the device is running on AC power.

Default Running Mode:

This is a default running mode. When this mode is activated, all modes will return to their default settings.

1. Plug the fixture in and press the MODE button until "dXX" is displayed. "XX" represents either "on" or "oFF".
2. Press the SET UP button until "dEFA" is displayed.
3. Press the UP and DOWN buttons simultaneously. Press the MODE button to exit.

ADJ RFC:

This function is used to activate and deactivate the ADJ RFC (Remote Control). When this function is activated, you can control the fixture using the ADJ RFC. Please see the ***ADJ RFC Operation*** section of this manual for detailed information.

1. Plug the fixture in and press the MODE button until "dXX" is displayed.
2. Press the SET UP button until "rFXX" is displayed. "XX" represents either "on" or "oF".
3. Press the UP or DOWN buttons to either activate (On) or deactive (Off) the remote function.

WiFLY Address:

This function is used to set the WiFly address. This address must match the address that is set to WiFly TransCeiver or WiFly controller.

1. Plug the fixture in and press the MODE button until "rCXX" is displayed. "XX" represents a number between 00-14.
2. Press the UP or DOWN buttons to either activate (On) or deactive (Off) the remote function.

OPERATING INSTRUCTIONS

DMX State:

This setting defines how the fixture will behave in the event that the DMX signal is lost or interrupted, as well as the operating mode the fixture will default to when it is first powered up.

1. Plug the fixture in and press the MODE button until "d.XXX" is displayed. "XXX" represents the currently selected DMX address.
2. Press the SET UP button so that "nodn" is displayed. Use the UP and DOWN buttons to scroll through the DMX states.
   - *bLAC (Blackout)* - If the DMX signal is lost or interrupted, the unit will automatically go into stand by mode.
   - *LASt (Last State)* - If the DMX signal is lost or interrupted, the fixture will stay in the most recently used DMX set up. If power is applied and this mode is set, the unit will automatically go into the last DMX set up.
   - *ProG (Auto Run)* - If the DMX signal is lost or interrupted, the unit will automatically go into Auto Run mode.
3. Use the UP and DOWN buttons to find your desired DMX state and press SET UP to confirm and exit.

Dimmer Curve Setting:

1. Plug the fixture in and press the MODE button until "d.XXX" is displayed. Now press the SET UP button until "dr-X" is displayed, "X" representing a number between 0-4.
2. There are 5 dimmer curve settings to choose from. Please see the ***Dimmer Curve Diagram Chart*** section of this manual for detailed information.

PRIMARY-SECONDARY CONFIGURATION

This function will allows you to link units together to run in a Primary-Secondary setup, with one unit acting as the controlling unit and the other units reacting to the controlling unit's built-in programs. Any unit can act as a Primary or as a Secondary, but only one unit can be programmed to act as the "Primary."

Primary-Secondary Connections and Settings:
1. Daisy chain the units together via the XLR connectors on their rear panels. Use standard XLR data cables to link the units, remembering 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 only the female XLR connector, while the last unit in the chain will use only the male XLR connector.
2. Set the Primary unit to the desired mode of operation.
3. On each Secondary unit, press the MODE button until "Sec" is displayed on the screen. The unit is now set as the Secondary unit.
4. The Secondary units should now follow the Primary unit.

POWER CORD DAISY CHAIN

This feature allows the fixtures to be linked to one another using the IEC input and output sockets.

The maximum number of devices that can be connected in this manner is 10 fixtures.

After this number has been reached, an additional power outlet must be used for additional fixtures. All linked fixtures must be of the same make and model type. **DO NOT mix fixtures.**

Note: Fixtures cannot be daisy chained when they are configured to run on battery power.

WIFLY SET UP

With this feature you are able to control the unit with DMX without the use of XLR cables. Your DMX controller must be connected to a ADJ WiFly TransCeiver to use this function. You are able to communicate up to 2500 feet/760 meters (open line of sight).
*NOTE: The ADJ RFC control must be set to OFF to use this function. See the **Operating Instructions** section of this manual for details.*

1. Turn on the WiFly function using the WiFly On/Off switch and set the antenna to either an up position or a down position.
2. Follow the instructions on in the **Operating Instructions** section of this manual to set the Wireless address. The address must match the address set on the WiFly Transceiver.
3. After you have set the WiFly address, select your desired DMX Channel mode and set your DMX address.
4. Apply power to the ADJ WiFly Transceiver. The fixture must be set up first before you apply power to WiFly Transceiver.
5. If everything is set up properly and the fixture is receiving a Wireless signal, the wireless status LED next to LED screen will glow green.

Note: If the sync does not work, switch the WiFly power off then on again.

PRIMARY-SECONDARY SET UP:
This feature will let you link units to run in a primary-secondary mode without the use of XLR cables.
*NOTE: The ADJ RFC control must be set to OFF on all the units to use this function. See the **Operating Instructions** section of this manual for instructions on how to turn OFF ADJ RFC.*

1. Set the wireless address. The addresses on each fixture must be the same.
2. Select your primary unit and set your desired operating mode.
3. Put the antenna in either a up position or down position, then turn the WiFly On, using the WiFly power switch. *Note: All antennas must be in the same position; they must either all be oriented upward or downward, but never at an angle.*
4. For the Secondary units, put the unit in Secondary mode. See the **Primary-Secondary Configuration** section of this manual for details. Then switch ON the WiFly power switch.
5. If everything is set up correctly, the Primary unit's WiFly status LED will glow orange, and the secondary unit's WiFly status LED will glow green.

NOTE: If the units do not sync up primary-secondary mode, switch the Primary fixtures WiFly power switch off then on again.

ADJ RFC OPERATION

The ADJ RFC remote (sold seperately) has many different functions and allows you to control your WiFly Par QA5 from a distance. The maximum range is 150 ft. To use the RFC, you must first activate the fixtures receiver, as instructed in the **Operation Instructions** section of this manual.

BLACKOUT - Pressing this button will blackout the fixture. Press and hold for 3 seconds to return to default settings.

AUTO RUN - This button will run an automatic program. There are 3 Auto Run programs to choose from. Each press of the button will switch between the different modes. You can control the speed of the Auto Run modes by pressing the SPEED button and then pressing the "+" and "-" buttons.
• *AFXX = Color Fade mode:* There are 16 Color Fade modes to choose from. Use the UP or DOWN buttons to scroll through the different Color Fade modes.
• *AJXX = Color Change mode:* There are 16 Color Change modes to choose from. Use the UP or DOWN buttons to scroll through the different Color Change modes.
• *A-JF = Both Color Fade and Color Change modes running.*

PROGRAM SELECTION - This button will activate Static Color mode. Use the "+" or "-" to scroll through the 15 available color options. Once you have found the desirsed color, you can press the FLASH button to activate strobing and use the "+" or "-" buttons to adjust the Flash rate.

FLASH - This button will activate the flash (strobe) effect. You can control the flash speed by pressing the "+" and "-" buttons.

SPEED - Press this button and use the "+" and "-" buttons to adjust the speed of the Auto run mode.

SOUND ACTIVE - This button activates sound active mode. Use the "+" or "-" buttons to choose from 16 available sound active modes. Press the SOUND ACTIVE button again to enter sound sensitivity adjustment. Use the "+" or "-" buttons to adjust the sound sensitivity.

R G B W/A - Press any one of these buttons and the press the "+" or "-" to adjust the brightness. Press the FLASH button to activate strobing and use the "+" or "-" to adjust the Flash rate.

"+" and "-" - Use these buttons to adjust the flash rate, speed of the Auto Run mode, Auto Run program selection, sound sensitivity, and color selection.

DMX TRAITS

1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH	DMX VALUES	FUNCTION
			1	1	1	1	1	000 - 255	*Red,* 0% to 100%
			2	2	2	2	2	000 - 255	*Green,* 0% to 100%
			3	3	3	3	3	000 - 255	*Blue,* 0% to 100%
			4	4	4	4	4	000 - 255	*Amber,* 0% to 100%
	2	2		5	5	5	5	000 - 255	*Master Dimmer,* 0% to 100%
									Strobing
		3				6		000 - 015	Off
								016 - 255	Strobing, slow to fast
									Strobing
								000 - 015	No Function
								016 - 255	Strobing, slow to fast
							6	000 - 255	*Speed Control,* slow to fast
									Sound Sensitivity
								000 - 031	No Function
								032 - 255	Sound Sensitivity, least sensitive to most sensitive
									Program Selection Mode
								000 - 051	Dimming Mode
								052 - 102	Color Macro Mode
							7	103 - 153	Color Change Mode
								154 - 204	Color Fade Mode
								205 - 255	Sound Active Mode
									Color Macros
								000 - 015	Off
								016 - 031	Red
								032 - 047	Green
								048 - 063	Blue
1	1	1			6	7		064 - 079	Amber
								080 - 095	Red & Green
								096 - 111	Red & Blue
								112 - 127	Red & Amber
								128 - 143	Green & Blue

CONTINUED ON NEXT PAGE

DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH		
									Color Macros (continued)
								144 - 159	Green & Amber
								160 - 175	Blue & Amber
1	1	1			6	7		176 - 191	Red, Green, & Blue
								192 - 207	Red, Green, & Amber
								208 - 223	Red, Blue, & Amber
								224 - 239	Green, Blue, & Amber
								240 - 255	Red, Green, Blue, & Amber
									Color Macro Mode
								000 - 015	Off
								016 - 031	Red
								032 - 047	Green
								048 - 063	Blue
								064 - 079	Amber
								080 - 095	Red & Green
								096 - 111	Red & Blue
								112 - 127	Red & Amber
							8	128 - 143	Green & Blue
								144 - 159	Green & Amber
								160 - 175	Blue & Amber
								176 - 191	Red, Green, & Blue
								192 - 207	Red, Green, & Amber
								208 - 223	Red, Blue, & Amber
								224 - 239	Green, Blue, & Amber
								240 - 255	Red, Green, Blue, & Amber
									Color Change Mode
								000 - 015	Color Change 1
								016 - 031	Color Change 2
								032 - 047	Color Change 3
								048 - 063	Color Change 4
								064 - 079	Color Change 5
								080 - 095	Color Change 6

CONTINUED ON NEXT PAGE

DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH		
							8		*Color Change Mode (continued)*
								096 - 111	Color Change 7
								112 - 127	Color Change 8
								128 - 143	Color Change 9
								144 - 159	Color Change 10
								160 - 175	Color Change 11
								176 - 191	Color Change 12
								192 - 207	Color Change 13
								208 - 223	Color Change 14
								224 - 239	Color Change 15
								240 - 255	Color Change 16
									Color Fade Mode
								000 - 015	Color Fade 1
								016 - 031	Color Fade 2
								032 - 047	Color Fade 3
								048 - 063	Color Fade 4
								064 - 079	Color Fade 5
								080 - 095	Color Fade 6
								096 - 111	Color Fade 7
								112 - 127	Color Fade 8
								128 - 143	Color Fade 9
								144 - 159	Color Fade 10
								160 - 175	Color Fade 11
								176 - 191	Color Fade 12
								192 - 207	Color Fade 13
								208 - 223	Color Fade 14
								224 - 239	Color Fade 15
								240 - 255	Color Fade 16
									Sound Active Mode
								000 - 015	Sound Active Mode 1
								016 - 031	Sound Active Mode 2
								032 - 047	Sound Active Mode 3
CONTINUED ON NEXT PAGE									

DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
1CH	2CH	3CH	4CH	5CH	6CH	7CH	8CH		
									Sound Active Mode (continued)
								048 - 063	Sound Active Mode 4
								064 - 079	Sound Active Mode 5
								080 - 095	Sound Active Mode 6
								096 - 111	Sound Active Mode 7
								112 - 127	Sound Active Mode 8
							8	128 - 143	Sound Active Mode 9
								144 - 159	Sound Active Mode 10
								160 - 175	Sound Active Mode 11
								176 - 191	Sound Active Mode 12
								192 - 207	Sound Active Mode 13
								208 - 223	Sound Active Mode 14
								224 - 239	Sound Active Mode 15
								240 - 255	Sound Active Mode 16

DMX TRAITS NOTES:

7-Channel Mode: Channels 1-4 will not work if Channel 7 is set to anything besides Off (DMX values = 000 - 015).

8-Channel Mode:
- When Channel 7 is set to DMX values 000 - 051, Channels 1-4 are enabled, and Channel 6 will control Strobing.
- When Channel 7 is set to DMX values 052 - 102, Channel 8 is in Color Macros Mode, and Channel 6 will control Strobing.
- When Channel 7 is set to DMX values 103 - 153, Channel 8 is in Color Change Mode, and Channel 6 will control the color change speed.
- When Channel 7 is set to DMX values 154 - 204, Channel 8 is in Color Fade Mode, and Channel 6 will control the color fade speed.
- When Channel 7 is set to DMX values 205 - 255, Channel 8 is in Sound Active Mode, and Channel 6 will control the sound sensitivity.

BATTERY INFORMATION

BATTERY STATUS:

This function is used to check the life status of the battery. Plug the fixture in and press the MODE button until "bXXX" is displayed. "XXX" represents an number between "000" and "100". The number that is displayed is the remaining battery life. If "b---" is displayed, it means the battery is depleted, or that the fixture is running the unit on AC power. Please avoid fully depleting the battery if possible, as this severely shortens the life of the battery.

Example: If "b050" is displayed, the battery is at half charge. If "b025" is displayed, the battery is at 25% charge.

NOTE: When the battery is charging, or if the battery life is below 30%, the digital display will flash.

NOTE: After 20 seconds of inactivity, the display will revert back to the battery life display.

BATTERY RECHARGE:

To recharge the battery, plug the supplied AC cord into the AC input on the side of the unit and plug the other end into a matching power supply. The device requires approximately 9 hours to reach full charge. The display will STOP flashing when the unit reaches 100% charge.

Note: When unplugging the unit from charging and then applying power via battery, there will be a slight charge drop.

For a faster recharge, put the Load Switch in the "Off" position and the Battery Switch in the "ON" position.
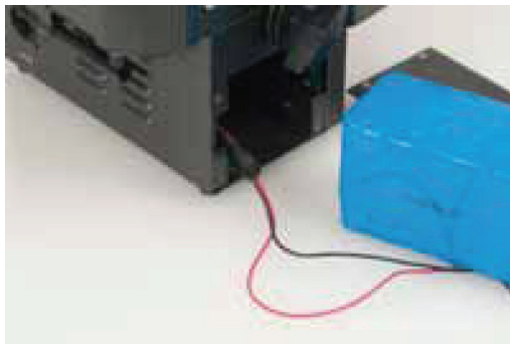
BATTERY REPLACEMENT

1. Unplug the unit from power and turn both switches to the off position. Unscrew the four thumb-screws that hold the battery door in place, then remove the battery door.

2. Carefully remove the battery from its compartment.

3. Carefully disconnect the battery cables from the point where they connect to the unit.

4. Connect the cables for the new battery to the unit, then reassemble the unit by reversing the above steps. **PLEASE NOTE: AFTER CHANGING THE BATTERY, IT IS NECESSARY TO RE-INITIALIZE THE UNIT.** Refer to the *Re-Initialization* section of this manual for detailed information.

RE-INITIALIZATION

After replacing either the PCB or the battery, the unit must be re-initialized by following the steps below. The unit must be re-initialized in order for the battery life readout to be accurate.

1. Make sure the unit is unplugged from any power source. Switch OFF the BATTERY switch and switch ON the LOAD switch.
2. Press and hold the DOWN button. While continuing to hold the DOWN button, plug the unit into an AC power source. The unit should display "-002". Release the DOWN button, and the screen should display the readout "StAr".
3. Simultaneously press the UP & DOWN buttons and release them. "-rUn" should appear on the display screen. This indicates that the unit has entered the battery capacity modification mode successfully. All LEDs will be off.
4. Switch ON the battery switch to charge the battery. **Note: Do not unplug the power cord during charging, as doing so will render the unit's battery life display inaccurate for future use. All buttons will be non-functional during the charging process.**
5. The LEDs will illuminate fully to indicate that the battery has reached full charge. Unplug the power cord immediately, and LEDs should remain fully illuminated. The battery will begin to discharge.
6. Unplug the power cord and switch ON the LOAD switch. Set the unit to Static Color mode. Use the UP or DOWN buttons so that the display shows "CL 15" (RGBA color full on) to quickly discharge the battery. Discharge the battery so that the display shows "b000", indicating that the battery charge has been depleted.
7. The unit has now been initialized successfully. The battery can now be charged, and then the unit will be ready for normal use.
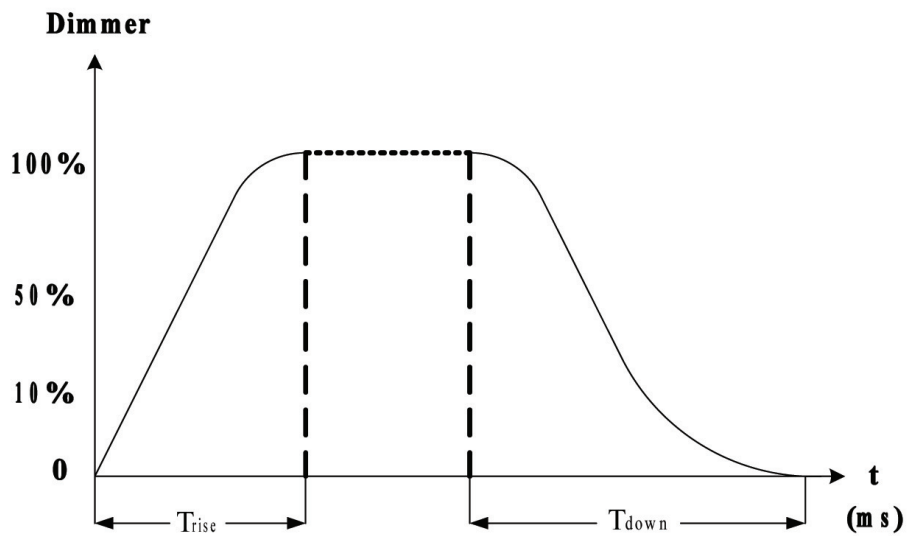
PHOTOMETRIC CHART
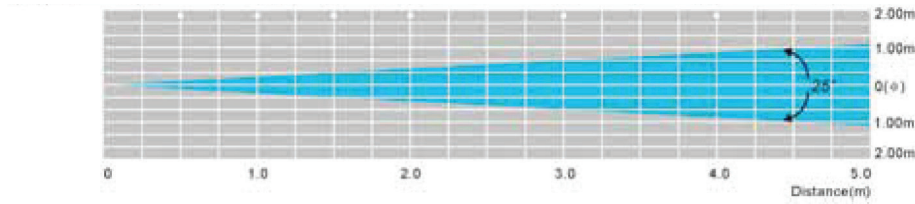
DISTANCE	0 m	1.0 m	2.0 m	3.0m	4.0 m	5.0 m	
R	D25	2520	748	382	221	144	
G	D25	2220	745	349	201	130	
B	D25	1980	515	252	143	93	LUX
A	D25	2200	663	319	179	108	
RGBA	D25	8620	2400	1068	652	425	

DIMMER CURVE CHART

Delay mode \ DMX delay	Trise(ms)	Tdown(ms)
dr-0	0	0
dr-1	800	1300
dr-2	1010	1560
dr-3	1200	1950
dr-4	1280	2600

FUSE REPLACEMENT

Disconnect the unit from its power source, and remove the power cord from the unit. 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. Please note that the fuse holder also has an extra slot for holding a spare fuse.

TROUBLE SHOOTING

Listed below are a few common problems that may arise, with possible 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"). Also, check that all cables are connected to the right connectors, as te manner in which the input and outputs are connected does affect the operation of the device.

Unit does not respond to sound:
• Quiet or high pitched sounds will not activate the unit.
• Make sure that Sound Active mode is enabled.

CLEANING

Due to fog residue, smoke, and dust, cleaning the internal and external optical lenses must be carried out periodically to optimize light output.
• Use normal glass cleaner and a soft cloth to wipe down the outside casing.
• Clean the external optics periodically with glass cleaner and a soft cloth.
• Always be sure to dry all parts completely before plugging the unit back in to power.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew

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 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 checkup. 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

Model: **WiFly Par QA5**

Voltage: 100V ~ 240V / 50~60 Hz
Battery Life: 6 Hours Full On (Full Charge)
Battery Lifetime*:   Average Lifetime is 500 Charges
LEDs: 5 x 5W Quad LEDs (RGBA 4-in-1)
Beam Angle: 25 Degrees
Working Position: Any safe working position
Power Draw: 58W
Power Cord Daisy Chain: 10 Fixtures Max.
Fuse: 2 Amp
Weight: 10 Lbs / 4.2 Kgs
Dimensions: 10.5" (L) x 9.5" (W) x 6.5" (H)
                                          265mm (L) x 240mm (W) x 164mm (H)
Colors: RGBA Color Mixing
DMX Channels: 8 DMX Modes: 1-, 2-, 3-, 4-, 5-, 6-, 7-, or 8-channel mode
Warranty**:   2 Year (730 Days) Limited Warranty

*Battery lifetime depends on charging frequency.
** See *Warranty* section of this manual for details.

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

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

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