ADJ

WIFLY EXR HEX5 IP

User Manual

WiFLY
BATTERY POWERED // WIRELESS DMX

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
09/2020	1.0	N/A	6 / 7 / 8 / 11 / 12 ch.	Initial Release
03/11/2022	1.1	N/A	No Change	Updated Safety Guidelines and document format

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!

TABLE OF CONTENTS

INTRODUCTION

Unpacking: Thank you for purchasing the WiFly EXR HEX5 IP by ADJ Products, LLC. Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton 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 EXR HEX5 IP is a rechargeable, lithium battery powered, DMX intelligent, LED par fixture which includes ADJ's WiFly TransCeiver with built-in wireless DMX. This 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 5 hours (full on) from a full, single charge, or 7 hours in energy saving mode. This fixture can be used in a stand alone mode or connected in a Primary/Secondary configuration, and features six operating modes: Color Fade mode, Color Change mode, Auto mode, RGBA Dimmer mode, Static Color mode, and DMX control mode.

Customer Support: ADJ Products, LLC provides a customer support line, to provide set up help and answer any questions or problems that may arise 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@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 whenever possible.

FEATURES

- Rechargeable Lithium Battery
- Multiple Colors
- Five Operating Modes
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 3-Pin DMX Connection
- 5 DMX Channel Modes: 6 Channel Mode, 7 Channel Mode, 8 Channel Mode, 11 Channel Mode, & 12 Channel Mode
- Built-In ADJ WiFly TransCeiver Wireless DMX
- ADJ RFC compatible (Not Included)
- Power Cord Daisy Chain (see **Power Cord Daisy Chain** section of this manual)

WARRANTY REGISTRATION

The WiFly EXR HEX5 IP 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 in order to avoid vibration and slipping during operation. Always ensure that the structure to which you are attaching the unit is secure and capable of supporting at least 10 times the unit's weight. Always use a safety cable that can hold at least 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's grasp.

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 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 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 in to 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, and use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect 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 the cords exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by t he 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.

⚠ CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT

UV

AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION! FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV LED. WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV LED. AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 FEET (3.3m). DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS. DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT. INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DIS-ORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

IP NOTICE

IP65 RATED

An IP rated lighting fixture is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The International Protection (IP) rating system is commonly expressed as "IP" (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. **An IP65 rated lighting fixture, such as this device, has been designed and tested to protect against the ingress of dust (6) and high-pressure water jets from any direction (5).**

MARINE/COASTAL ENVIRONMENT INSTALLATIONS!
Please note that although this fixture is IP rated, the fixture is NOT suitable for marine and/or coastal environment installations. Installing this fixture in a marine and/or coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a marine and/or coastal environment will void the manufacturer's warranty and will NOT be subject to any warranty claims and/or repairs.

Ensure ALL connections and end caps are properly sealed with a non-conductive dielectric grease (available at most electrical suppliers) to prevent water ingress/condensation and/or corrosion.

OPTIONAL CORROSION-RESISTANT COATING

Optional Corrosion-Resistant Coatings may be available for this fixture. Please consult your Elation Professional sales representative for details.

PROTECTION VALVE
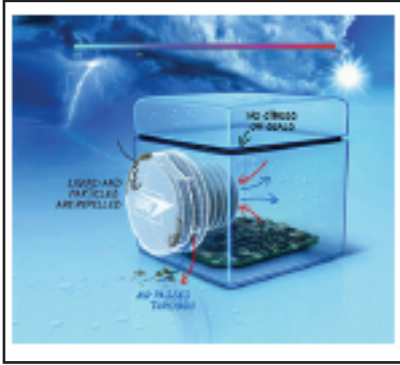
This IP rated fixture features a protective vent valve that equalizes pressure, prevents contamination, and reduces condensation, ultimately extending the lifetime of the fixture.

IMPORTANT: MUST READ!!!
If this fixture is installed in an extreme and/or harsh outdoor/wet environment, it MUST be powered on and used for a minimum of 30 minutes every 10-15 days. Prolonged exposure to an extreme and/or harsh outdoor/wet environment without usage as stated above can lead to component damage and/or shortening the lifetime of the fixture. Any component damage that has been determined to be the direct result of not following this procedure may void the manufacturer's warranty.

BATTERY PRECAUTIONS

1. HANDLING OF BATTERIES

1.1 Do not short circuit the battery
Avoid subjecting the battery to a short circuit, as doing so generates a very high current, resulting in overheating, electrolyte gel leakage, harmful fumes, explosion risk, or other damage to the battery. The LIR tabs are susceptible to short-circuiting when placed on a conductive surface. Protective circuitry with PCM is employed to protect accidental short circuit of the battery pack.

1.2 Mechanical shock
Dropping, impacting, striking, or bending the unit, or subjecting the unit to any other types of mechanical shock may cause failure or shortend life of the 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. Direct soldering may cause damage to components, such as the separator and insulator, as a result of heat build up.

2.2 Prevention of short circuiting within a battery pack
There is a sufficient amount of insulation between the wiring and the batteries to provide extra safety protection. The battery pack is constructed in such a way as to prevent short circuits that can result in smoke or fire.

2.3 Do not disassemble the batteries
• Never disassemble the batteries, as doing so may result in an internal short circuit in the battery, leading to fire, explosion, release of harmful fumes, or other hazards.
• Electrolyte gel is harmful, and contact should be avoided whenever possible. 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 battery to heat or fire
Never incinerate or dispose of the batteries in fire, as this could result in an explosion.

2.5 Do not exposre the battery to water or liquids
Never expose or immerse the batteries in liquids of any type, including water, seawater, soft drinks, juices, coffee, or other beverages.

3.6 Battery Replacement
For battery replacement please contact ADJ customer support.

3.7 Never use a damaged battery
Shipping carries a risk of damage to the battery. Should damage be observed, including damage to the plastic casing of the battery, deformation of the battery package, chemical or electrolyte odor, or leakage of the electrolyte gel, or any other miscellaneous damage, ***DO NOT use the battery.*** A battery with a odor of electrolyte or a gel leakage should be placed away from fire to avoid risk of fire or explosion.

BATTERY PRECAUTIONS

3. BATTERY STORAGE

The battery should be stored at room temperature, with a charge of at least 50%. During long periods of storage, it is recommended that the battery be charged every 6 months. Doing so will prolong the life of the battery and will also make sure that the battery charge does not fall below the 30% mark.

4. OTHER CHEMICAL REACTIONS

Because batteries rely on a chemical reaction to work, 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 the need to replace the battery.

5. BATTERY DISPOSAL

Please dispose of battery according to local regulations.

SETUP

Power Supply: The ADJ WiFly EXR HEX5 IP contains 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. When linking several DMX fixtures, try to use the shortest cable path possible in order to ensure proper DMX data transmission. 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.

DMX Cable Requirements: The WiFly EXR HEX5 IP can be controlled via DMX-512 protocol. The WiFly EXR HEX5 IP has 5 DMX channel modes (see the **DMX Traits** section of this manual for detailed information). The DMX address is set on the back panel of the WiFly EXR HEX5 IP.

Cable Requirements: This fixture is designed with special cables for both DMX and power. These cables are specifically designed to maintain the integrity of the IP rating. When using this fixture for outdoor applications, be sure to ONLY use the ADJ cables that have been manufactured to meet the IP rating.

"First" DMX Cables - A special DMX "First" cable (part #WIF901-DMX Cable) may be purchased from ADJ to provide a means of data communication with standard DMX fixtures for indoor use. These cables will come with the IP rated twist lock connector on one end and either a 3-pin XLR male or female connector on the other, depending on model. Be sure to only use these cables for intergrading this fixture in a standard DMX chain.

"First" Power Cable – A special power "First" cable is included with every fixture. This cable is used to provide power to your fixture. This cable comes with the IP rated twist lock connector on one end and a standard 3-prong, grounded connector on the other end. Be sure to only use this cable for power distribution. Never attempt to connect this cable to the DMX lines.

You can chain multiple fixtures together through serial linking using the IP rated signal cables provided through ADJ (part# WIF901-Power Cable). Always be sure to daisy-chain your in and out data connections, and never split or "Y" your DMX connections unless you are using an approved DMX splitter, such as the ADJ WiFly D6 Branch or the original D6 Branch (both units not IP rated).

SETUP

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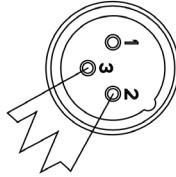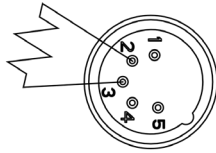
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

5-Pin XLR DMX Connectors. Some 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 by using a cable adapter. These adapters are readily available 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

SETUP

DMX ADDRESSING:

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The starting DMX address is configured by setting the correct DMX address on the control panel display on the fixture.

You can set the same starting address for multiple fixtures, or set different addresses for each individual fixture. Setting multiple fixtures to the same DMX address will cause all those fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

As an example, when operating this device in 6 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 7 (1 + 6), the third unit to 13 (1 + 6 + 6), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
6 Ch	1	7	13	19
7 Ch	1	8	15	22
8 Ch	1	9	17	25
11 Ch	1	12	23	34
12 Ch	1	13	25	37

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, press the battery button located on the bottom of the fixture across from power input connection. See the ***Battery Load*** sub-section of this section for detailed directions.

LCD Display Lock:
The display will lock after 30 seconds. Press and hold the MODE button for 10 seconds to unlock the display and access the menu.

Energy Saving Mode:
This will decrease the LED's brightness gradually when the battery life is less than 80%, thereby extending the battery life.
1. To activate energy saving mode, press the MODE button until "Energy SAVE:XX" is displayed. "XX" represents either "ON" or "OFF".
2. Press the UP or DOWN button so that "ON" is displayed. If "ON" is displayed already, this means that the fixture is already in energy saving mode.

LED Display On/Off:
To set the LED display light to turn off after 30 seconds of inactivity, press the MODE button until "OPTION" is displayed. Press the SET UP button so that "BLGT:XXX" is displayed, where "XXX" represents either ON or OFF. Press the UP or DOWN buttons so that OFF is displayed. Now the display light will turn off after 30s of inactivity. Press any button to turn the display on again.

Operating Modes:
The WiFly EXR HEX5 IP has five operating modes:
- Static Color Mode - There are 63 colors to choose from.
- RGBWA+UV Dimmer Mode - Choose one of the six colors to remain static, or adjust the intensity of each color to create a custom color.
- Auto Run - Will run a mixture of color fade and color change.
- Color Change Mode - Select 1 of 16 color change programs to run. Color change speed is adjustable.
- Color Fade Mode - Select 1 of 16 color fade programs to run. Color fade speed is adjustable.
- DMX control mode - This function will allow you to control each individual DMX trait using a standard DMX 512 controller.

OPERATING INSTRUCTIONS

RGBWA+UV Dimmer Mode:
1. Plug the fixture in and press the MODE button until "MANUAL" is displayed, then press the SET UP button to scroll through RGBWA & UV colors.
   - "RED:XXX" - Red dimming mode. Press the UP and DOWN buttons to adjust intensity.
   - "GREN:XXX" - Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
   - "BLUE:XXX" - Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
   - "WHIE:XXX" - White dimming mode. Press the UP and DOWN buttons to adjust intensity.
   - "AMBR:XXX"- Amber dimming mode. Press the UP and DOWN buttons to adjust intensity.
   - "UV:XXX" - UV dimming mode. Press the UP and DOWN buttons to adjust intensity.
2. After you have adjusted the RGBWA & UV colors to create your desired color, you can then activate strobing by pressing the SET UP button to enter the strobe mode.
3. "STROB: XX" will be displayed, indicating that the unit is in strobe body. The Flash can be adjusted from 00 (flash off) to 15 (fastest flash).

Color Change Mode:
1. Plug the fixture in and press the MODE button until "JUMP RUN SNAP:XX" is displaye, where "XX" represents a number between 01-16.
2. Use the UP and DOWN buttons to find your desired color change mode.
3. Press the SET UP button and "SPEED:XX" will be displayed. Use the UP and DOWN buttons to adjust the speed of the color change.

Color Fade Mode:
1. Plug the fixture in and press the MODE button until "FADE RUN FADE:XX" is displayed, where "XX" represents a number between 01-16.
2. Use the UP and DOWN buttons to find your desired color fade mode.
3. Press the SET UP button and "SPEED:XX" will be displayed. Use the UP and DOWN buttons to adjust the speed of the color fade.

Auto Run Mode:
In this mode the WiFly EXR QA5 IP will run an auto program.
1. Plug the fixture in and press the MODE button until "AUTO RUN FAD+SNAP" is displayed.
2. Press the SET UP button and "SPEED:XX" will be displayed. Use the UP and DOWN buttons to adjust the speed of the Auto Run.

Static Color Mode:
1. Plug the fixture in and press the MODE button until "CLR MACS COLOR:XX" is displayed, where "XX" represents a number between 00-63.
2. Use the UP and DOWN buttons to scroll through the 63 colors and find you desired color. After you have found your desired color, you can activate strobing by pressing the SET UP button to enter strobe mode.
3. "STROB:XX" will be displayed, indicating that the device is now in strobe mode. The strobing can be adjusted between "00" (flash off) to "15" (fastest flash).

OPERATING INSTRUCTIONS

DMX Mode:
Operating through a DMX controller gives the user the freedom to create custom programs tailored to his or her own individual needs. This function also allows you to use your fixtures as spot lights. The WiFly EXR HEX5 IP has 5 DMX modes: 6 Channel mode, 7 Channel mode, 8 Channel mode, 11 Channel mode, and a 12 Channel mode. See the **DMX Traits** section of this manual for detailed information.

1. To run your fixture in DMX mode, press the MODE button until "DMX MODE ADDR:XXX" is displayed, where "XXX" represents the current DMX address. Use the UP or DOWN buttons to scroll through and find your desired DMX address.
2. After you have set your DMX address, press the SET UP button so that "CHAN:XX" is displayed, where "XX" represents the currently selected DMX Channel mode. Use the UP or DOWN buttons to scroll through the DMX Channel modes.
3. After you have chosen your desired DMX Channel mode, connect your fixture to any standard DMX controller via the XLR connections.

Battery Life:
This is used to check/display the battery life. Plug the fixture in and press the MODE button until "BATT LEV XXX" is displayed, where "XXX" represents the remaining battery life. If "BATT LEV ----" is displayed, it means either the battery is dead or the unit is running on AC power.

Battery Load:
This is used to turn the PCB On when the battery is being used.

1. Press the MODE button until "BATT LEV" is displayed.
2. Press the SET UP button until "BATT LEV LOAD:XX" is displayed, where "XX" represents either "ON" or "OFF".
3. Press the UP or DOWN button so that "ON" is displayed. If "ON" is displayed already, then this means that the PCB is already active.

Default Running Mode:
This is a default running mode. When activated, all modes will return to their default settings.

1. Plug the fixture in and press the MODE button until "OPTION BLGT:XX" is displayed, where "XX" represents either "on" or "oFF".
2. Press the SET UP button until "SYSRESET" is displayed.
3. Press the UP and DOWN buttons simultaneously to reset to default settings.

ADJ RFC:
This function is used to activate and deactivate the ADJ RFC (Remote Control). When this function is activated, the fixture can be controlled using the ADJ RFC. Please see the **ADJ RFC Operation** section of this manual for information regarding controls and functions.

1. Plug the fixture in and press the MODE button until "OPTION" is displayed.
2. Press the SET UP button until "RFXX" is displayed, where "XX" represents either "ON" or "OFF".
3. Press the UP or DOWN buttons to either activate the remote function (On) or deactivate it (Off).

OPERATING INSTRUCTIONS

WiFLY Address Setting/WiFly On/Off:

This function is used to set the WiFly address and activate/deactivate the WiFly function. The address must match the address that is set to your WiFly TransCeiver or WiFly controller.

1. Plug the fixture in and press the MODE button until "WIFI SET ADDR: XX" is displayed, where "XX" represents a number between 00-14.
2. Use the UP or DOWN buttons to find and set your desired WiFly address. The address must match the address that is set to your WiFly TransCeiver or WiFly controller.
3. After you have found and set your WiFly address, press the SET UP button to activate WiFly. "WIFI SET STAT: XXX" will now be displayed. Use the UP or DOWN button to set the display to "On" to activate WiFly. To deactivate WiFly, set the display to "Off".

DMX State:

This mode defines how the fixture will behave in the event that the DMX signal is lost or interrupted. You can also set this as the operating mode you would like the unit to return to when power is applied.

1. Plug the fixture in and press the MODE button until "DMX MODE ADDR:XXX" is displayed.
2. Press the SET UP button until "DMX MODE NO: XXXX" is displayed, where "XXXX" represents the current DMX state that is displayed.
3. Use the UP or DOWN buttons to select the operating mode you would like the unit to start up in when power is applied, or when the DMX signal is lost.
   - AUTO - If the DMX signal is lost or power is applied, the unit will automatically go into Auto Run mode.
   - BLACK - If the DMX signal is lost or power is applied, the unit will automatically go into standby mode.
   - HOLD - If the DMX signal is lost or power is applied, the fixture will stay in the last DMX set up.

Dimmer Curve Setting:

This is used to set the dimming curve used with DMX mode. See the ***Dimmer Curve Chart*** section of this manual for detailed information.

1. Plug the fixture in and press the MODE button until "DMX MODE ADDR:XXX" is displayed.
2. Press the SET UP button until "DELAY:X" is displayed. "X" represents the displayed dimmer curve (0-4).
   - 0 - Standard
   - 1 - Stage
   - 2 - TV
   - 3 - Architectural
   - 4 - Theatre
3. Press the UP and DOWN buttons to scroll through and select the desired dimming curve.

PRIMARY-SECONDARY CONFIGURATION

This function will allows units to be linked together to run in a Primary-Secondary setup, with one unit will act as the controlling unit and the others will react to the controlling unit's programs. Any unit can act as a Primary or as a Secondary, but only one unit can be programmed to act as the "Primary."

Connections and Settings:
1. Daisy chain your units via the XLR connector on the rear panels of the units. Use standard XLR data cables to link your units together. 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.
2. Set the "Primary" unit to your desired mode of operation.
3. On each of the "Secondary" units, press the MODE button until "Secondry Mode" is displayed. The unit is now set as the "Secondary" unit. Each secondary unit must be set to the same setting.
4. Connect the first "Secondary" unit to the "Primary". The "Secondary" unit should now start to follow the "Primary".

WIFLY SETUP

With this feature, the unit can be controlled wirelessly with DMX. Your DMX controller must be connected to a ADJ WiFly Transceiver to use this function. Maximum range is up to 2500 feet/760 meters (open line of sight).

1. Follow the instructions shown in the *Operating Instructions* section of this manual to set the WiFly address and to activate WiFly. The address must match the address set on the WiFly Transceiver.
2. Select your desired DMX Channel mode and set your DMX address. Refer to the *Operating Instructions* section of this manual for detailed instructions.
3. Apply power to the ADJ WiFly Transceiver. Please note that the fixture must be set up first before you apply power to WiFly Transceiver.
4. If everything is set up properly and the fixture is receiving a wireless signal, you should now be able to control it with a DMX controller.

ADJ RFC OPERATION

The ADJ RFC remote (sold seperately) has many different functions and allows you to control your WiFly EXR HEX5 IP from long distance. Maximum range is 150 ft. To use the RFC you must first activate the fixtures receiver, as directed in the **Operating Instructions** section of this manual.

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

AUTO RUN - Pressing this button will cycle through auto run, color change mode, and color fade mode. In the color change and color fade modes, you can use the "+" and "-" buttons to scroll through the different programs. You can control the speed of each of the modes by pressing the SPEED button and using the "+" and "-" buttons.

PROGRAM SELECTION - Pressing this button will switch between static color mode and secondary mode. Use the "+" or "-" to scroll through the 63 static colors. Once you have found the desired color, you can press the FLASH button to activate strobing and use the "+" or "-" to adjust the flash rate.

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

SPEED - Press this button and use the "+" and "-" buttons to adjust the speed in Program mode.

SOUND ACTIVE - This button has no active function with this fixture.

R G B W/A - Press either one of these buttons and use the "+" or "-" to adjust the brightness. Press the FLASH button to activate strobing and use the "+" or "-" buttons to adjust the Flash rate. *Note: Use the W/A button to choose white, amber, & UV. Each press of this button will change to the next color.*

"+" and "-" - Use these buttons to adjust the flash rate, select your desired program, adjust the color change speed, color fade speed, auto run speed, RGBWA & UV brightness, and to scroll through the Static colors.

DMX TRAITS

6CH	7CH	8CH	11CH	12CH	DMX VALUE	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	*White,* 0% to 100%
5	5	5	5	5	000 - 255	*Amber,* 0% to 100%
6	6	6	6	6	000 - 255	*UV,* 0% to 100%
	7	7	7	7	000 - 255	*Master Dimmer,* 0% to 100%
						Strobing
					000 - 031	LED Off
					032 - 063	LED On
					064 - 095	Strobing, slow to fast
		8	8	8	096 - 127	LED On
					128 - 159	Pulse Strobing, slow to fast
					160 - 191	LED On
					192 - 223	Random Strobing, slow to fast
					224 - 255	LED On
						Program Selection Mode
					000 - 051	Dimming Mode
					052 - 102	Color Macro Mode
			9	9	103 - 153	Color Change Mode
					154 - 204	Color Fade Mode
					205 - 255	Auto Run Mode
					000 - 255	*Color Macro Mode* (see *Color Macros Chart* section of this manual)
						Color Change Mode
					000 - 015	Color Change 1
					016 - 031	Color Change 2
					032 - 047	Color Change 3
					048 - 063	Color Change 4
			10	10	064 - 079	Color Change 5
					080 - 095	Color Change 6
					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
CONTINUED ON NEXT PAGE							

20

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	11CH	12CH		
					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
			10	10	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
					000 - 255	*Auto Run*
			11	11	000 - 255	*Program and Auto Run Speed,* slow to fast
						Dimmer Curves
					000 - 020	Standard
					021 - 040	Stage
				12	041 - 060	TV
					061 - 080	Architectural
					081 - 100	Theatre
					101 - 255	Default to unit setting

DMX TRAITS

NOTES:

- When Channel 9 is between the values of 0-51, Channels 1-6 are used, and Channel 8 will control strobing.
- When Channel 9 is between the values of 52-102, Channel 10 is in Color Macros Mode, and Channel 8 will control strobing.
- When Channel 9 is between the values of 103-153, Channel 10 is in Color Change
- Mode, and Channel 11 will control the color change speed.
- When Channel 9 is between the values of 154-204, Channel 10 is in Color Fade Mode, and Channel 11 will control the color fade speed.
- When Channel 9 is between the values of 205-255, Channel 10 is in Auto Run Mode, and Channel 11 will control the auto run speed.

COLOR MACROS CHART

DMX VALUES	COLOR	DMX VALUES	COLOR
000 - 003	Off	128 - 131	G+B+W
004 - 007	Red	132 - 135	G+B+A
008 - 011	Green	136 - 139	G+B+UV
012 - 015	Blue	140 - 143	G+W+A
016 - 019	White	144 - 147	G+W+UV
020 - 023	Amber	148 - 151	G+A+UV
024 - 027	UV	152 - 155	B+W+A
028 - 031	R+G	156 - 159	B+W+UV
032 - 035	R+B	160 - 163	B+A+UV
036 - 039	R+W	164 - 167	W+A+UV
040 - 043	R+A	168 - 171	R+G+B+W
044 - 047	R+UV	172 - 175	R+G+B+A
048 - 051	G+B	176 - 179	R+G+B+UV
052 - 055	G+W	180 - 183	R+G+W+A
056 - 059	G+A	184 - 187	R+G+W+UV
060 - 063	G+UV	188 - 191	R+G+A+UV
064 - 067	B+W	192 - 195	R+B+W+A
068 - 071	B+A	196 - 199	R+B+W+UV
072 - 075	B+UV	200 - 203	R+B+A+UV
076 - 079	W+A	204 - 207	R+W+A+UV
080 - 083	W+UV	208 - 211	G+B+W+A
084 - 087	A+UV	212 - 215	G+B+W+UV
088 - 091	R+G+B	216 - 219	G+B+A+UV
092 - 095	R+G+W	220 - 223	G+W+A+UV
096 - 099	R+G+A	224 - 227	B+W+A+UV
100 - 103	R+G+UV	228 - 231	R+G+B+W+A
104 - 107	R+B+W	232 - 235	R+G+B+W+UV
108 - 111	R+B+A	236 - 239	R+G+B+A+UV
112 - 115	R+B+UV	240 - 243	R+G+W+A+UV
116 - 119	R+W+A	244 - 247	R+B+W+A+UV
120 - 123	R+W+UV	248 - 251	G+B+W+A+UV
124 - 127	R+A+UV	252 - 255	R+G+B+W+A+UV

BATTERY STATUS AND CHARGING

BATTERY STATUS:

This function is used to check the charge status of the battery. Plug the fixture in and press the MODE button until "BATT LEV XXX%" is displayed. "XXX" represents the currently remaining battery life. If "BATT LEV ----" is displayed, it means that the unit is running on AC power. ***Please do not fully deplete the battery charge, as this severly shortens the life of the battery.***

NOTE: When the battery life is below 30%, the battery percentage number will flash. At 15% power the fixture will shut off automatically.

NOTE: When using battery power, after 20 seconds of inactivity, the display will revert back to the battery life display.

BATTERY RECHARGING:

To recharge the battery, plug one end of the supplied AC cord into the AC input on the side of the unit, and the other end into a matching power supply. It takes approximately 5 hours to reach full charge (with the power off). **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 small charge drop.

For a faster recharging, turn the Load setting to "Off" and turn the battery "On". See the "Battery Load" sub-section in the ***Operating Instructions*** section of this manual.

PHOTOMETRIC CHART
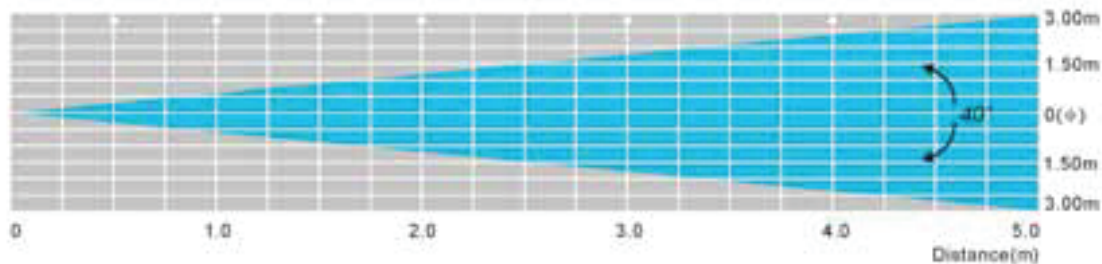
Distance	0m	1.0m	2.0m	3.0m	4.0m	5.0m	
R	D40	917	237	97.8	48.9	32.1	
G	D40	951	257	108.5	55.7	37.5	
B	D40	815	217	85	53.1	31.7	
W	D40	1190	302	113.8	67.6	42.3	lux
A	D40	574	140	50.6	28.9	17.6	
UV	D40	179	47.7	38.3	10.9	6.5	
RGBWA+UV	D40	4240	966	449	241	154.5	

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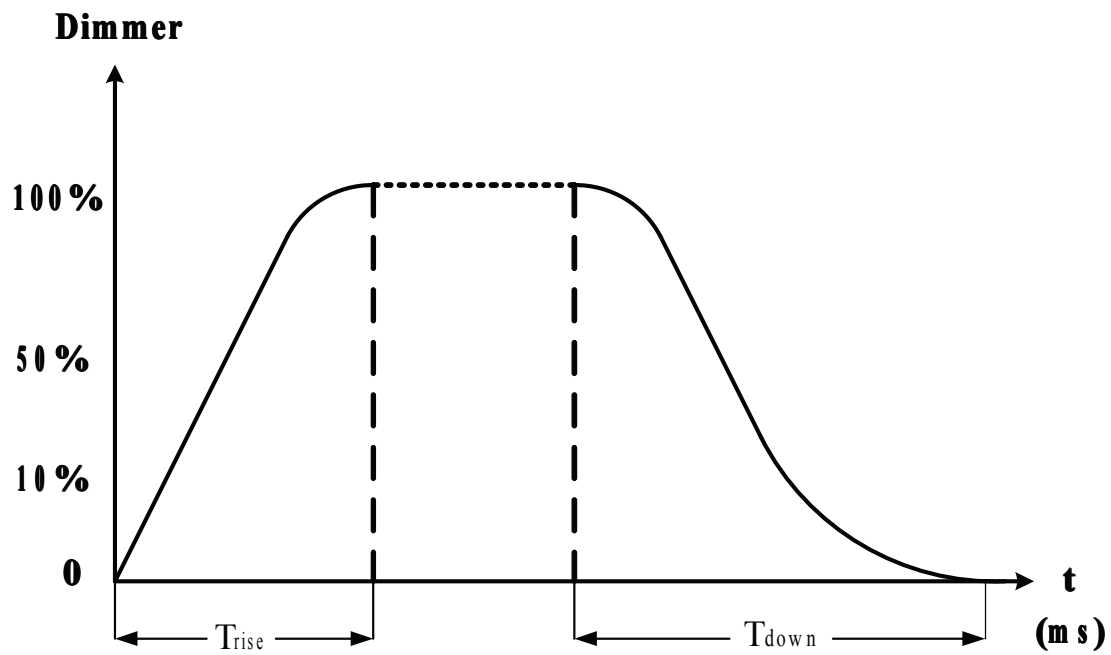
DMX delay / Delay mode	Trise(ms)	Tdown(ms)
dr-0	0	0
dr-1	800	1300
dr-2	1010	1560
dr-3	1200	1950
dr-4	1280	2600

POWER CORD DAISY CHAIN

These units have the capability to be daisy chained together via the power in/out ports. **The maximum number of units that can be linked together in this manner is 10 units.**

DO NOT EXCEED THE NUMBER OF UNITS LISTED ABOVE.

DO NOT MIX MAKE AND MODEL TYPES WHEN DAISY CHAINING! All units that are connected in this manner must be of the same make and model type.

Note: Fixtures cannot be daisy chained while running on battery power.

TROUBLE SHOOTING

Listed below is a common problem the user may encounter, with a possible solution.

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 the order in which the inputs and outputs are connected does affect how the unit operates.

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.
- Periodically clean the external optics with glass cleaner and a soft cloth.
- Always be sure to dry all parts completely before plugging the unit back in.

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

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 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 EXT HEX5 IP
Voltage: 100V ~ 240V / 50-60 Hz
Battery Charge Time: 5 Hours (with load off)
Battery Life: 5 Hours (Full on, full charge)
                                    7 Hours (Energy Saving Mode, full charge)
Battery Lifetime*:   500 Charges (average lifetime)
LEDs: 5 x 10W Hex LEDs (RGBWA+UV 6-in-1)
Beam Angle: 40 Degrees
IP Rating: IP65
Working Position: Any safe working position
Power Draw: 56 W
Power Cord Daisy Chain: 10 fixtures max
Weight: 12 Lbs / 5.4 Kgs
Dimensions: 10.5" (L) x 9.5" (W) x 6.5" (H)
                                    310mm (L) x 280mm (W) x 194mm (H)
Colors: RGBWA+UV
DMX Channels: 5-, 6-, 7-, 11-, and 12-channel mode
Warranty**:   2 Years (730 days) Limited Warranty

*Battery Lifetime depends on charging frequency.

**See Limited Warranty section of this manual for details.

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
6122 S. Eastern Ave. Los Angeles, CA 90040 USA Tel: 323-582-2650 / Fax: 323-725-6100
Web: www.adj.com / E-mail: info@adj.com

A.D.J. Supply Europe B.V.
Junostraat 2
6468 EW Kerkrade
The Netherlands
service@adjgroup.eu / www.adj.eu
Tel: +31 45 546 85 00 / Fax: +31 45 546 85 99

Follow Us!

Facebook.com/adjlighting   Twitter.com/adjlighting
YouTube.com/adjlighting   Instagram: adj_lighting