

Hurricane Junior

User Manual (IP65 Protection)



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Before You Begin

What is Included

- User's Manual
- One (1) IP65 Rated Hurricane Junior Light Head
- One (1) IP65 Rated Hurricane Junior Power Module
 - USA voltage (120Vac), three-prong plug standard
- Diffuser lens, four (4), 5°, 15°, 30° and 55°

Unpacking Instructions

Immediately upon receipt of this light, carefully inspect the shipping packaging for any obvious signs of damage from mishandling or exposure to the elements. If any is noted, please provide this information to the shipper immediately so that the proper claims can be processed. Place packaging in upright position (with labeling and markings in readable orientation) and open the top end of the carton. Verify that all material shown above in the "What is included" section is present and in good condition. Remove the light and associated material from the carton and place the light on a stable surface or mounting configuration.

Symbol Definitions



Note: This symbol indicates important information that should be carefully considered and followed.



Note: This symbol indicates important safety information and warnings. Special attention should be paid to reading, understanding and heeding these warnings. Failure to observe these warnings could result in damage to the fixture, third-party equipment or harm to the user.



Note: This symbol indicates important information concerning the operation or functions of this light.

Safety Notes

The Hurricane Junior light fixtures are for **Professional Use Only**. **Please Read Entire User Manual Before Using Equipment.**

- **This light is ETL, CSA listed for Wet Location and CE.** It offers IP65 protection.
- Only qualified and certified personnel should perform installation, not for household use.
- Hurricane Junior light should always be installed/mounted in a stable and secure location or mounting.



- The Hurricane Junior Light is IP65 rated. IP65 rating indicates totally dust tight and protection against low pressure water jets in all directions (i.e. rain). **UNIT IS NOT SUBMERSABLE.**
- Always allow adequate ventilation of the light. Never cover or in any way obstruct the louvered fins on the heatsink or the electronics housing below light.
- If light is suspended either from above or below using yoke, make sure that a safety cable (not supplied) is attached to the light and properly secured. The strength of the cable/chain should be sized suitably to hold 6 times the weight the secured light.
- When mounting the light, make sure that only hardware rated for the weight and size of the fixture is used and is good and proper working condition.
- Never look directly into the light source while the fixture is turned on. Light source is very bright and could cause damage to eyes.
- Do not probe or touch any interior features of the fixture. This includes the LED sources inside the barrel of the light. Doing so may cause damage to the fixture and/or may present a shock or burn hazard.
- Always make sure that the light fixture is connected to the proper power source with proper voltage and current ratings. Also, make sure that adequate over current protection is provided for the circuit as well.



Note: This light contains no user serviceable parts. Do not open the light housing or attempt any repair or modification of the light. Failure to observe this warning could result in damage to the light, injury and voiding the limited warranty.



Warning! Inserting objects or fingers inside any openings or connectors could result in a shock hazard/injury and damage to the light.

Introduction

Product Description

The Hurricane Junior light fixture is a professional grade, LED based, device which provides exceptional light output and control. The light is capable of manual or DMX control and offers a full array of brightness settings.

Features

- Manual control
- DMX control (Compatible with Slow and Fast speeds)
 - Up to 500 selectable DMX addresses
 - Daisy-chain operation of up to 32 lights in one string
 - Controls Brightness, Fade

Setup



Quick Start

Remove the Hurricane Junior light from its protective shipping packaging and place it in a safe and secure location for setup or use.



Prior to proceeding further, make sure that light is resting on a stable surface or is properly attached to a mounting location using the supplied yoke pin mounting system.



Make note of the location of the inputs and outputs along with the light controls found on the rear of the light's control box .



The DC power cable is integral to the Light Head as supplied. Uncoil the DC cord, plugging the DC female end from the Power Module into the DC male end from the Light Head.



Warning! Lights operate on grounded 110Vac, 50/60Hz or 240Vac, 50/60Hz AC Input. AC Supply Source must be sized properly and have approved protection circuitry for safe operation. Take care to observe all proper precautions when connecting power.



Warning! Unit is NOT SUBMERSIBLE. Do NOT Submerge any part of the light in water or any other liquid.

- Plug the male end of the AC power cord from the Power Module into an appropriate AC power source.
- Turn on light by pressing the Power Switch located in the end of the Power Module and on the back of the Light Head. If power is present each switch will glow green.



- Using the control panel on the side of the Power Module, press the “DMX/MANUAL” key until the “Manual” Mode is shown in the display.
- Upon power up, the factory default setting will be the “Manual” mode. Brightness will be controlled by the dimming knob on the back of the Light Head.

AC Power

Hurricane Junior lights operate on standard single phase AC power.

- Input voltage range: 100 – 240Vac
- Input frequency range: 50/60 Hz



Warning! Standard power cord supplied with Hurricane Junior light is intended to connect with standard, single-phase 110-120 V_{ac}, 60 Hz USA circuit. An adaptor for use with 240Vac, 50Hz European circuits is available. Other power cords or connectors to other countries’ single phase circuits are available as options. No other special adjustments or changes are required for operation at international voltages.



Warning! Never connect Hurricane Junior series lights to anything other than a single-phase circuit. Connection to three-phase power can/will cause serious damage and/or bodily injury.

DC Power

As an alternative to standard AC operation, Hurricane Junior Light Head can also operate without the Power Module on 30Vdc (max) power provided by an external battery (not supplied).

- Operational Input DC voltage range: 22V_{dc} (min) – 30V_{dc}(max)
- Light will not function at DC voltage ranges above or below range shown above.



Warning! DC power connection from external battery (not supplied) must mate properly with four pin power connector on DC cable from Light Head. Contact AAdyn Technology for further details or information. Failure to connect properly can result in damage to the Light Head.

DC Cable connector FROM Light Head

Pin 1 (Ground, V-)

Pin 2 (V+)

Pin 3 (Data, DO NOT USE)

Pin 4 (Data, DO NOT USE)

DC Cable connector attached to Light Head: **Amphenol M12, Male**

Mating Connector (not supplied): **Amphenol M12, Female**



Control Selection

Control of the Hurricane Junior light is by one of two means: Manual and DMX

Operation

Manual Operation

In the Manual Mode, the operation of the light is achieved by first turning on the Power Switch on the back of the Light Head and then adjusting the Brightness knob. The Power Switch should glow green when power is applied to the light and the switch is turned on.

Power Module Operation

The Power Module can be set to Manual or DMX operation.



- The Display has four user input keys and a backlit LCD display that the software controls. The keys provide the following functionality:
 - UP/DOWN keys – select the value of the DMX address parameter.
 - MENU key – activates the LCD and permits DMX address values to be set via the UP and DOWN keys.
 - DMX/MANUAL key – toggles the light control between DMX and manual control. The manual control is a potentiometer located on the back of the Light Head.
- **ACTIVITY INDICATORS**
A DMX LED will be illuminated to indicate that DMX messages are being received. A COMM LED will be illuminated whenever communications is established between the Power Supply Module and the Light Head.



- LCD BACKLIGHT TIMEOUT

After two minutes of inactivity the backlight will extinguish and stay off until a specified button is pushed or power is cycled or the unit goes into over temperature mode. If the backlight is OFF, a momentary push of the MENU button or the DMX/MANUAL button will enable the backlight immediately but the action normally associated with that button will be ignored. The button action will not be armed until the button is released. Subsequent button presses will be acted upon in a normal manner.

- LCD BACKLIGHT COLOR

The LCD backlight is cyan in color, unless the Light Head indicates that the LED array is in an over temperature condition or in a degraded state. If the over temperature condition exists, then the backlight color will change to red and the display backlight will not time out. If the degraded state condition exists, then the backlight color shall be changed to magenta and it will again not time out. The degraded state occurs if the Light Head detects an over temperature condition at any time. This state is latched in the Head End Controller until power is cycled.

- LCD DISPLAY PARAMETERS

If the MENU button is pressed, the software shall display the current DMX address. The UP and DOWN buttons can be used to modify this value. The valid range is 1 to 512. The modification will be cancelled if the MENU button is not pressed again to lock the new value in. When the lock in action has completed, the menu will also display the word "SAVED" as well as the value. This "SAVED" word will be removed if any of the arrows or DMX/Manual keys are pressed.

If the DMX/MANUAL button is pressed while the display is in DMX Address mode, the display will show the current mode. Pressing the button a second time will immediately cause the mode to toggle.

When the unit is powered up, the LCD display will show the model name identifier in alternating 10 second periods for two minutes before turning off the LCD backlight. The version numbers will be displayed in the alternate 10 second periods.

The software provides slow, medium and fast scrolling for the Up and Down Arrow buttons. If the Up or Down Arrow button is held down for two seconds, the values will be slowly scrolled on the display (4 times a second by 1). If the Arrow button is held down for an additional four seconds the values will be medium scrolled on the display (5 times a second by 2). If in medium scroll mode and the Arrow button is held down for eight more seconds the values will be fast scrolled on the display (10 times a second by 5). The DMX address will wrap around from 512 to 1 and from 1 to 512.

The software will save the DMX address and DMX/Manual mode setting in non-volatile memory so that the unit will return to the mode it was in when it was powered down.

If the unit is in an over temperature mode, the LCD display will remain on and indicate this condition, via a text message on the display of "Over Temperature".

If the unit is in a degraded mode, the LCD display will remain on and indicate this condition, via a text message on the display of "Degraded".





Please Note: Although there are up to (500) unique addresses possible for assignment under DMX control, the maximum number of lights that can be connected together via the DMX In and Out connectors on the back of the Aadyn lights is **(32)**.



Please Note: When DMX Control is selected, complete control of all Aadyn light features and functions is accomplished through DMX rather than Manually. In order to return control from DMX to the Manual, see note above for setting light control. For DMX control parameters, see section 3.0 below.

3.0 DMX Controller Interface

- The Aadyn light software accepts input from the DMX512 controller that transmit user requested values of DMX update speeds up to 44Hz for BRIGHTNESS.
- The DMX output to the light is mapped as follows: Channel 1, Brightness

Control	Value	Function
Channel 1	Brightness	000 to 255
		Allows user to determine the light value, (000) is off and (255) is full bright

Technical Information

General Maintenance and Care

This light is intended for indoor or outdoor use. When not in use, the light should be stored in a generally dry and dust free area. General maintenance and care consists of making sure that the light always has good ventilation and that nothing is obstructing free air flow through and around the light. Do not use chemicals to clean light. Any cleaning of the light, especially the LED optics should be with a damp, not wet, soft cloth that is non-abrasive.



Limited Warranty

AADYN TECHNOLOGY, LLC LIMITED WARRANTY

AAdyn Technology, LLC (“AAdynTech”) products are covered by a limited warranty against manufacturing defects for two (2) years from the date of purchase by the original purchaser. AAdynTech’s liability is limited, at AAdynTech’s option, to repair or replacement of the product with the same or an equivalent product and does not include installation costs, removal costs, or transportation costs. AAdynTech reserves the right to determine whether the AAdynTech product is defective. Damage due to normal wear and tear, incorrect installation, misuse, abuse, accident, or any cause other than a manufacturing defect is not covered by the warranty. AAdynTech disclaims any liability for damage to products, adapters, other property, or personal injury resulting in whole or in part, from improper installation or use of its products. Components not manufactured by AAdynTech are subject to the warranty or guarantee set forth by the manufacturer thereof, and then only to the extent AAdynTech is able to enforce the warranty or guarantee.

In order to make a warranty claim, you must notify AAdynTech in writing within sixty (60) days after your discovery of the defect, obtain from AAdynTech an RMA, then provide proof of purchase, such as the invoice, and promptly return the product to AAdynTech or its authorized service provider, freight prepaid.

THE FOREGOING WARRANTY PROVISIONS ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY AGAINST INFRINGEMENT AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL AADYNTECH BE LIABLE FOR INCIDENTAL, COMPENSATORY, CONSEQUENTIAL, DIRECT, SPECIAL OR OTHER DAMAGES. AADYNTECH’S AGGREGATE LIABILITY WITH RESPECT TO A DEFECTIVE PRODUCT SHALL IN ANY EVENT BE LIMITED TO THE REPAIR OR REPLACEMENT OF THAT DEFECTIVE PRODUCT OR, AT AADYNTECH’S OPTION, THE REIMBURSEMENT OF THE PURCHASE PRICE THEREFOR.

This warranty is effective for purchases of AAdynTech’s product on or after the effective date set forth below. AAdynTech reserves the right to modify this warranty from time to time. Any modification of this warranty shall be effective for all orders placed with AAdynTech on or after the effective date of such revised warranty.

Effective Date: November 11, 2014

All prices and specifications are subject to change without notice.

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Hurricane Jr.

No Diffuser @ 5 Feet @ 10 Feet @ 15 Feet

Lux	25,290	6,370	2,860
Ft. Candles	2,349	592	266

5° Diffuser @ 5 Feet @ 10 Feet @ 15 Feet

Lux	17,380	4,375	1,970
Ft. Candles	1,615	406	183

15° Diffuser @ 5 Feet @ 10 Feet @ 15 Feet

Lux	11,330	2,820	1,275
Ft. Candles	1,052	262	118

30° Diffuser @ 5 Feet @ 10 Feet @ 15 Feet

Lux	4,750	1,190	528
Ft. Candles	441	111	50

55° Diffuser @ 5 Feet @ 10 Feet @ 15 Feet

Lux	1,765	464	200
Ft. Candles	164	43	19

