

# I-Pix 18x15w

*18x15w RGBWA+UV Wash Light - IP65*



*User Manual*

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# 1. Introduction and Setup

## Unpacking and In the Box

In the box you will find:

I-PIX 18x15w Fixture -	1
Mounting Feet -	2
Power Cable -	1
DMX Signal Cable -	1
User Manual -	1

## Mounting and Operation



Use a clamp rated for the full weight of the I-PIX 18x15w to hang the fixture from the mount(s) on the fixture's yoke.

Use the provided feet/clamp brackets to mount the fixture in a variety of positions. Using a hex wrench, you are able to mount and slide the brackets for perfect adjustment.

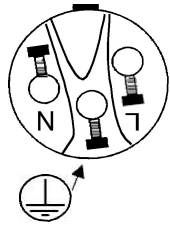
As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly or on the yoke.

This unit has an auto-switching power supply which will respond from 90v-240v, 50Hz/60Hz.

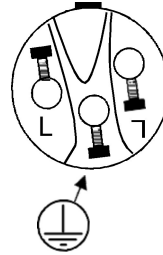
The power cable is to be assembled as follows:

Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		

110V  
Connection



220V  
Connection



## Features

The I-PIX 18x15w is a fully capable, IP-65, LED strip light with control of each individual pixel when desired. Featuring 6-in-1 RGBWA+UV LED's, flexible mounting options and multiple operating modes, I-PIX 18x15w is at home on stages and installations of many types.

## Safety Precautions

Caution: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

From a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5ft) away from any flammable materials (decoration etc.).

- Don't try to modify the fixture without any instruction by the manufacturer or the appointed repairing agencies.
- Warranty is voided if there are any malfunctions from not following the user manual while operating or any hazardous operation, like shock, short circuit, electronic shock, lamp broken, etc.

Maximum surface operating temperature is 80°C

## Customer Support

### WARRANTY POLICY

GAMMA LED Vision warrants its products for the periods set below from the date of purchase to be free of manufacturer and workmanship defects. Warranty does not cover normal wear and tear caused by force, negligence or misuse of products. GAMMA LED Vision is not responsible for any damages or injury caused by misuse or improper handling of the products and in accordance with instructions and specifications of manual.

Warranty terms are as follows:

LED Fixtures:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Lamp Fixtures: 1 year / excludes the lamp

LED Video Products:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Controllers: 2 years

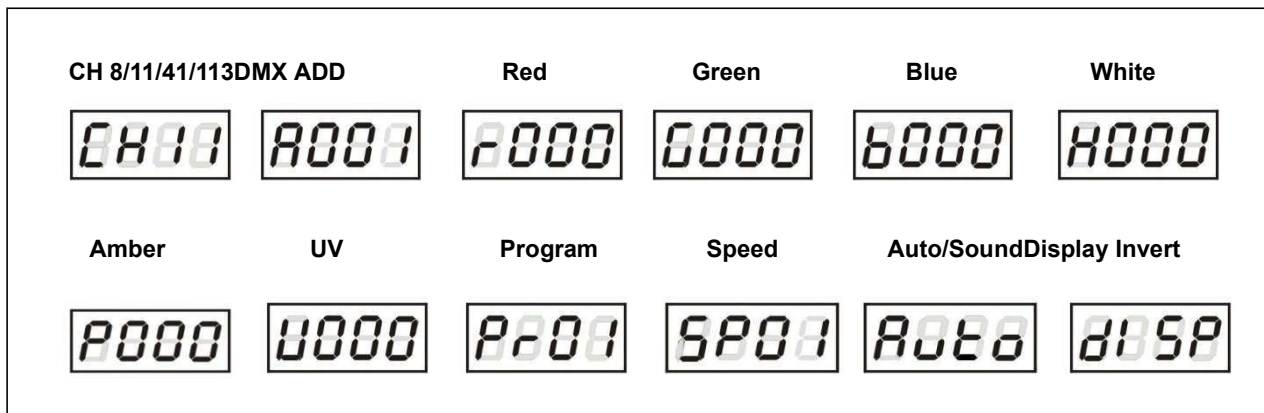
Batteries: 6 months

All Trussing Related Products and Accessories: 1 Year

Please visit [WWW.GAMMALEDVISION.COM](http://WWW.GAMMALEDVISION.COM) for complete Limited Warranty terms and contact information.

## 2. Setup and Operation

### Using the LCD Menu and Buttons



**CHANNEL MODE** This function allows you to select channel mode 8CH/11CH/41CH/113CH. Press UP/DOWN to set desired mode, press ENTER to confirm setting.



**ADD SETTING** This function allows you to set desired dmx address on fixtures. Press UP/DOWN to get value, press ENTER to confirm setting.



**RED INTENSITY** This function allows you to dim red color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**GREEN INTENSITY** This function allows you to dim green color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**BLUE INTENSITY** This function allows you to dim blue color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**WHITE INTENSITY** This function allows you to dim white color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**AMBER INTENSITY** This function allows you to dim amber color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**UV INTENSITY** This function allows you to dim uv color intensity from 0 to 100%. Press UP/DOWN to get value, press ENTER to confirm setting.



**PROGRAM** This function issues 30 kinds built-in programs, Press UP/DOWN to select desired effect from Pr01 to Pr30, Press ENTER to confirm setting.



**SPEED** This function allows you to control speed of built-in programs from SP01 to SP16. Press Enter to confirm setting

# DMX Setup

## DMX Basics

DMX512 stands for digital multiplex 512. This means that 512 channels are controlled digitally through 1 data cable.

A channel is a set of 255 steps that are assigned to control attributes in each light. This may be a color like red, green or blue, and intensity, strobe, pan/tilt or other attributes.

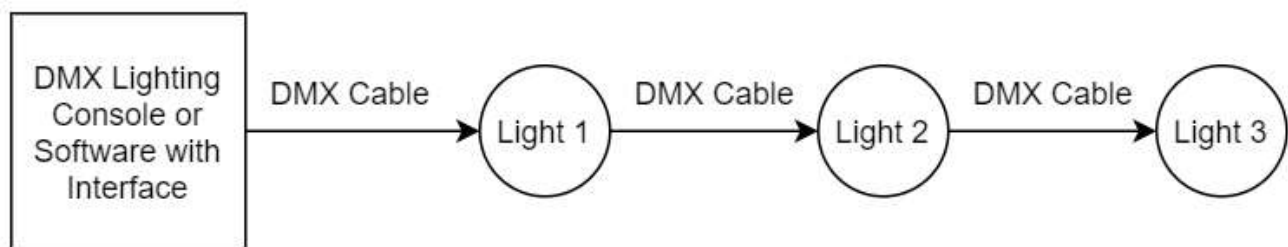
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

## DMX Wiring

DMX works by connecting 1 or multiple lights to the output of a DMX lighting console or software with a DMX interface.

DMX lights connect in what is called a “daisy-chain”. Your first DMX cable will plug its male DMX connector into the female DMX connector on your lighting console. The remaining female connector will then connect to the DMX input on your first light.

You may then connect your next fixture to the output of your first light, and continue the chain.

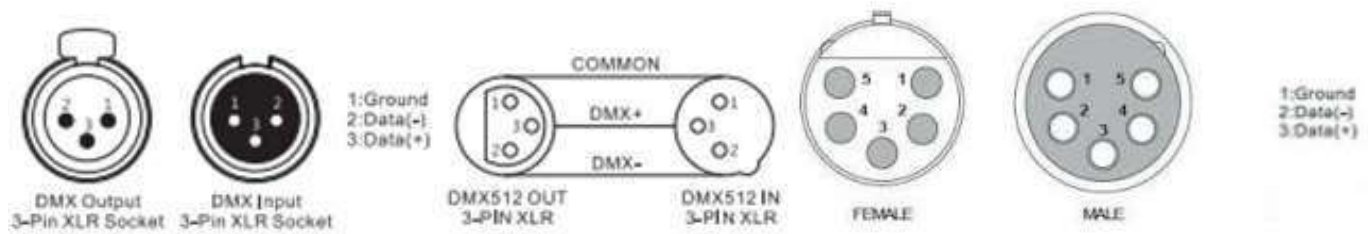


**32 Fixture Rule** – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

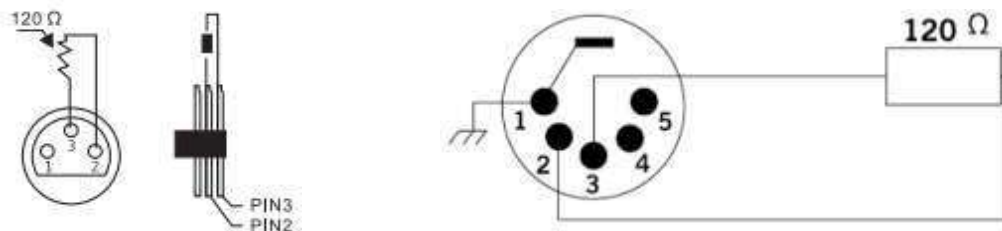
DMX Cables can be 3-pin or 5-pin. These use the same type of data, and in the 5-pin only pins 1, 2, and 3 are used. The cable should be a 2 conductor, shielded cable of at least 110 ohms resistance. Microphone cable is not DMX cable.

Please refer to the diagram below:





For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise and reflections. The DMX terminator is simply an XLR plug with a 120  $\Omega$  resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below:



## DMX Modes and Configuration

I-PIX 18x15w has multiple DMX modes, sometimes called "personalities", "profiles", or as we will use here "modes".

In general, modes with more DMX channels offer a greater level of control or options but take up more of your output channels on your lighting console or software.

Modes with less DMX channels often offer less control, but may be plenty for your needs. *Depending on your needs and control solution, you may not need channels for automated programs, strobes, or macros – your console may have great effects! In this case, you can use a lesser channel mode and fit more lights per DMX universe.*

View the DMX mode charts below to find the mode that best suits your needs.

**8CH Mode** – Entire Fixture in one grouping.

Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Master Dimmer Control
2	Strobe	0	Strobe Off
		1-255	Strobe, Slow to Fast
3	Red	0-255	Red Dimmer Control
4	Green	0-255	Green Dimmer Control
5	Blue	0-255	Blue Dimmer Control
6	White	0-255	White Dimmer Control
7	Amber	0-255	Amber Dimmer Control
8	UV	0-255	UV Dimmer Control

**11CH Mode** – Entire Fixture in one grouping with Effects Macros

Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Master Dimmer Control
2	Strobe	0	Strobe Off
		1-255	Strobe, Slow to Fast
3	Red	0-255	Red Dimmer Control
4	Green	0-255	Green Dimmer Control
5	Blue	0-255	Blue Dimmer Control
6	White	0-255	White Dimmer Control
7	Amber	0-255	Amber Dimmer Control
8	UV	0-255	UV Dimmer Control
9	White/Warm Colors	0-255	Various Red/White/Amber Color Selections
10	Color Macros	0-21	No Function
		22-90	Static Color Selections
		91-103	Color Chase Macros
		104-223	Pixel Chase Macros
		224-255	Whole Fixture Macros
		245-255	Pixel Chase Macros II
11	Macros Speed	0-255	Macros Speed, Fast to Slow

#### 41CH Mode – 6 Individual Segments of 3 LED's with Effects Macros

Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Master Dimmer Control
2	Strobe	0	Strobe Off
		1-255	Strobe, Slow to Fast
3, 9, 15, 21, 27, 33	Red	0-255	Red Dimmer Control in 6 Segments
4, 10, 16, 22, 28, 34	Green	0-255	Green Dimmer Control in 6 Segments
5, 11, 17, 23, 29, 35	Blue	0-255	Blue Dimmer Control in 6 Segments
6, 12, 18, 24, 30, 36	White	0-255	White Dimmer Control in 6 Segments
7, 13, 19, 25, 31, 37	Amber	0-255	Amber Dimmer Control in 6 Segments
8, 14, 20, 26, 32, 38	UV	0-255	UV Dimmer Control in 6 Segments
39	White/Warm Colors	0-255	Various Red/White/Amber Color Selections
40	Color Macros	0-21	No Function
		22-90	Static Color Selections
		91-103	Color Chase Macros
		104-223	Pixel Chase Macros
		224-255	Whole Fixture Macros

		245-255	Pixel Chase Macros II
41	Macros Speed	0-255	Macros Speed, Fast to Slow

### 113CH Mode – 6 Individual Segments of 3 LED's with Effects Macros

Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Master Dimmer Control
2	Strobe	0	Strobe Off
		1-255	Strobe, Slow to Fast
3, 9, 15, 21, 27, 33, 39, 45, 51, 57, 63, 69, 75, 81, 87, 93, 99, 105	Red	0-255	Red Dimmer Control in 6 Segments
4, 10, 16, 22, 28, 34, 40, 46, 52, 58, 64, 70, 76, 82, 88, 94, 100, 106	Green	0-255	Green Dimmer Control in 6 Segments
5, 11, 17, 23, 29, 35, 41, 47, 53, 59, 65, 71, 77, 83, 89, 95, 101, 107	Blue	0-255	Blue Dimmer Control in 6 Segments
6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108	White	0-255	White Dimmer Control in 6 Segments
7, 13, 19, 25, 31, 37, 43, 49, 54, 61, 67,	Amber	0-255	Amber Dimmer Control in 6 Segments

73, 79, 85, 91, 97, 103, 109			
8, 14, 20, 26, 32, 38, 44, 50, 55, 62, 68, 74, 80, 86, 92, 98, 104, 110	UV	0-255	UV Dimmer Control in 6 Segments
111	White/Warm Colors	0-255	Various Red/White/Amber Color Selections
112	Color Macros	0-21	No Function
		22-90	Static Color Selections
		91-103	Color Chase Macros
		104-223	Pixel Chase Macros
		224-255	Whole Fixture Macros
		245-255	Pixel Chase Macros II
113	Macros Speed	0-255	Macros Speed, Fast to Slow

## **3. Maintenance**

### **Cleaning**

The cleaning of lens must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky, or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with a damp, soft cloth..
- Always dry the parts carefully.
- Clean the external optics at least every 20 days in demanding environments.

### **Troubleshooting Problems**

The following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

#### **A. The unit does not work:**

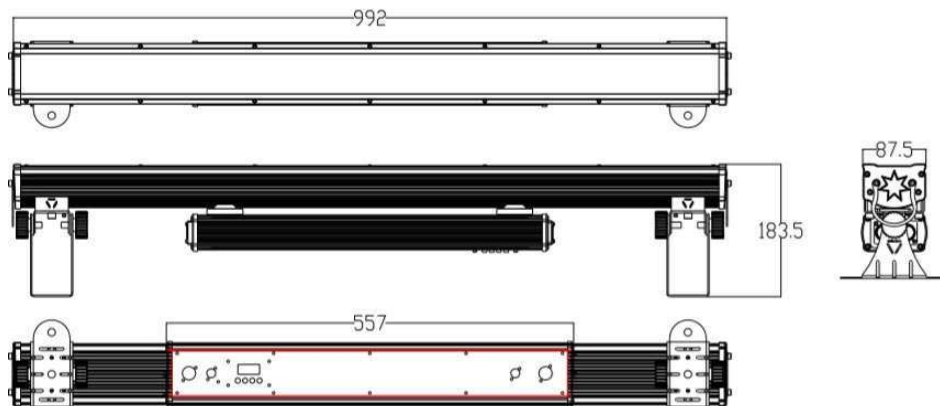
- Check that the unit is plugged in to a working power connector.
- Press the menu button to confirm that the unit is powered on. If the screen does not light up, the unit has no power.

#### **B. Not Responding to the DMX Controller**

- Check DMX cables to verify that they are plugged in and functional.
- Check the DMX address and mode – does it match the address and mode patched in the lighting console or software?
- Plug the light directly into the DMX controller with a cable that you know is good. Unplug all other lights – does it work?
- Try to use another DMX controller.

## 4. Technical Specifications

- Light Source: 15W RGBWA+UV LED X 18pcs
- Average Lifetime: 100,000 Hour
- Input Voltage: 100-240VAC, 50/60Hz
- Power Consumption: 280W max
- Lens angle: 15°/ 25°,optional
- Display: LED display
- DMX Channel Modes: 8/11/41/113 CH
- Dimmer: 0-100% linear dimming system
- Refresh rate: 4.7kHz
- Control Mode: DMX 512 control, Stand-Alone, Sound Control.
- Connector: True-One system with Power & DMX In+Out;
- Construction: Die-casting aluminum housing; Black/Silver/White color optional
- IP rating: IP65
- Net Weight: 10.5kg
- Dimension: 992×87.5×183.5mm





# Photometric Reports

