

Econ 12x18 IP

12x18w IP65-rated Battery-Powered Wireless Par



User Manual

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Introduction and Setup

Use the power button on the rear of the fixture to power the fixture on and off.

Unpacking and In the Box

Thank you for choosing our Econ 12x18 IP. For your own safety, please read this manual before installing or using the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual for future needs.

In the box you will receive:

- Econ 12x18 IP 1
- IR Remote 1
- 3 Pin DMX Cable 1
- True1 Compatible Power Cable 1

Features

- 12x18w LED Par with Battery Power and Wireless DMX
- 15° Optics (*40° Special Order - Contact Your Dealer for Availability*)
- RGBWA+UV LED's
- IP65 Rated for Temporary Outdoor Use
- Silent, Fan-free Operation
- Multiple Power Management Modes
- DMX, Wireless DMX, and RDM Control

Mounting and Operation

Use a clamp rated for the full weight of the Econ 12x18 IP to hang the fixture from the mount(s) on the fixture's yoke.

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

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 for complete Limited Warranty terms and contact information.

Setup and Operation

Using the LCD Menu and Buttons

The LCD system includes Menu), Up, Down, and Enter buttons to the sides of the LCD screen. Press “Menu” to enter the menu or to go back from a sub-menu. Use “Up”/”Down” to navigate through the choices, and use “Enter” to save your choices.

The menu options are as follows:

Main Menu Option	Key Operation
Address	Set the DMX Address
Channel	Set the DMX Mode - 2CH, 6CH, 8CH, or 11CH
DMX Fail	Set to “Blackout” to have the fixture turn off when DMX is lost. Set to “Hold” to have the fixture keep the last DMX values.
Frequency	Set the PWM Frequency of the LED’s
Custom	Set a Custom, Manual Color for Standalone Operation
Program	Choose between Static, Auto, Fade, Sound, and CCT. Each mode has various speeds and settings to customize the stand-alone mode.
	Wifi - Identifies Wifi Code for Pairing to a Phone or Tablet
Wireless	Turn the wireless DMX on/off, set as a transmitter or receiver, and set the group ID/color.
Run Time	2/4/6/8 hour - each mode sets the brightness lower for the maximum amount of time chosen.
Back Light	Set the LCD power off time.
IR	Set the IR remote receiver on/off.
Menu Lock	Set the LCD menu lockout - the key is holding Up/Down until the menu unlocks.
Factory Reset	Factory reset the fixture.
Curve	Set the Dimming Curve: Led Curve 1: Linear

Main Menu Option	Key Operation
	Led Curve 2: Square Wave Led Curve 3: Logarithmic Curve Led Curve 4: S-Curve
Information	Displays the software version

IR Remote Control

The Econ 12x18 IP also comes with a IR remote control which can be enabled in the menu above. Many of the features on the IR remote are self-explanatory, but there are a few that you will not be as obvious.



- The upper left 2 keys control the brightness up and down.
- The upper right 2 keys control on/off.
- Letter Keys control individual LED colors, numbers 1-9 offer alternative preset colors.
- Auto, Strobe, Fade, and Sound activate their various modes, with the exception of “sound” - being a weatherproof fixture, the Econ 12x18 IP does not have a sound-active microphone.

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.

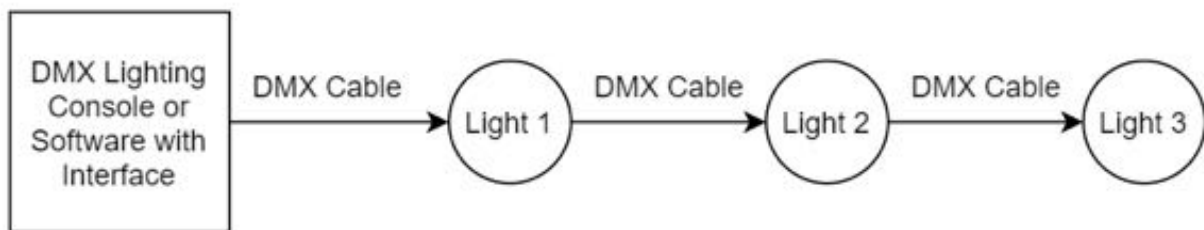
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

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).

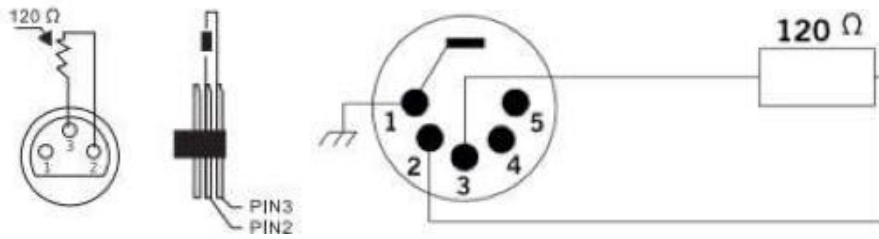
DMX Cables can be 3-pin or 5-pin. These use the same type of data, and in the 5-pin only pins 1, 2, and 3 are used. The cable should be a 2 conductor, shielded cable of at least 110 ohms resistance. Microphone cable is not DMX cable.

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 Ω 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 Channel Mode Sheet:

2CH	6CH	8CH	11CH	Function	Channel Value	Description
1		1	1	Intensity	0-255	Master Dimmer Control
	1	3	2	Red	0-255	Intensity Control of Red
	2	4	3	Green	0-255	Intensity Control of Green
	3	5	4	Blue	0-255	Intensity Control of Blue
	4	6	5	White	0-255	Intensity Control of White
	5	7	6	Amber	0-255	Intensity Control of Amber
	6	8	7	UV	0-255	Intensity Control of UV
		2	8	Strobe	0-9	No Function
					10-255	Strobe, Slow to Fast
2			9	Color Temperature Control	0-10	No Function
					11-20	2000k
					21-30	2200k
					31-40	2400k
					41-50	2600k
					51-60	2800k
					61-70	3200k

2CH	6CH	8CH	11CH	Function	Channel Value	Description
					71-80	3600k
					81-90	4000k
					91-100	4400k
					101-110	4800k
					111-120	5200k
					121-130	5600k
					131-140	6000k
					141-150	6400k
					151-160	6800k
					161-170	7200k
					171-180	7600k
					181-190	8000k
					191-200	8400k
					201-210	8800k
					211-220	9200k
					221-230	9600k
					231-240	10000k
					241-255	No Function
			10	Macros	0-9	No Function
					10-50	Static Colors
					51-100	Chase Macros
					101-150	Gradient Macros
					151-200	Ramp Down Pattern

2CH	6CH	8CH	11CH	Function	Channel Value	Description
					201-215	No Function
					216-230	No Function
					231-245	No Function
					246-255	No Function
			11	Macro Speed / Color Adjustment	0-255	Speed, Slow to Fast

Maintenance

Routine Maintenance

Front Lens Cleaning

The front lens should be cleaned so that light output is maintained. With the light powered off, use a moist, lint-free cloth. Never use alcohol or solvents to clean the fixture. Never spray any cleaners on the fixture.

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 into 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.

Technical Specifications

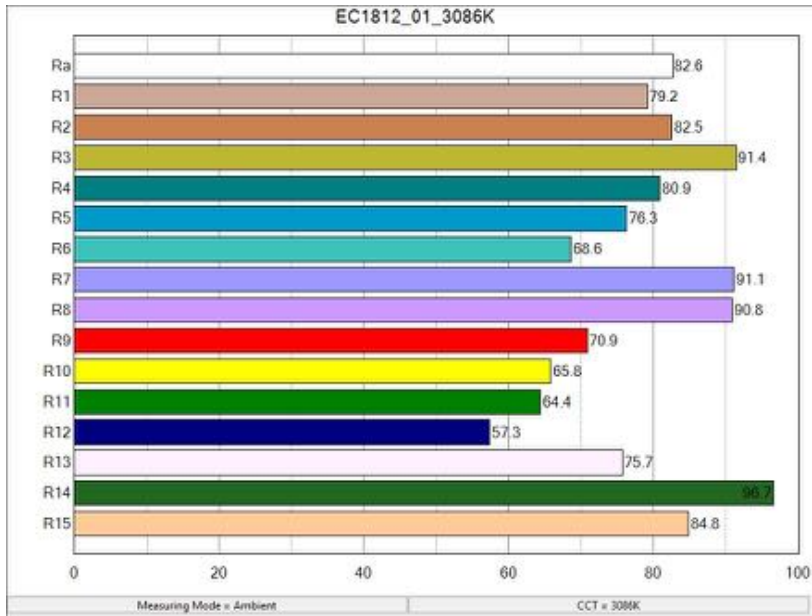
- 12*18W RGBWA+UV LED's
- Up to 8 hours of battery life in full white (all colors)
- DMX, RDM, and Wireless DMX control.
 - RDM UID 0071199A6AC4
- DMX Modes: 2CH, 6CH, 8CH, 11CH
- Manual Control Modes Available including IR remote.
- IP65 Weatherproof
- Silent, Fan-Free Operation

Photometrics

Distance in Ft	FC at Full
5	255
10	93.5
15	12.5
25	30
50	3

Color Quality

CRI:



TM30:

