Bloom X FC

RGBALC+Deep Blue LED Cyc/Wall Washer

GAMMA

WWW.GAMMALEDVISION.COM

User Manual

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1. Introduction and Setup

Unpacking and In the Box

Thank you for choosing our Bloom X FC. 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 find:

- Bloom X FC Fixture: 1
- Omega Brackets 2
- DMX Cable 3 Pin 1
- PowerCon to Edison Cable: 1

Mounting and Operation

Before installation, please read the user manual carefully, then prepare Omega Brackets (2 pcs) and Clamps (2 pcs)

Clamp Mounting: The Bloom X FC provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit. When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the omega bracket.

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.

The fixture may also be placed upon a solid surface, in which case the Omega Brackets are not used.

Features

The Bloom X FC features high-intensity Red, Green, Blue, Lime, Amber, Cyan, and Deep Blue LED’s in (1) controllable bank. It’s output is smooth and allows for washes of large surfaces when multiple units are used.

Safety Precautions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Caution: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were 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 items 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.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

DO NOT connect the device to any dimmer pack.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.

·Don't try to modify the fixture without any instruction by the manufacturer.

·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.

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.GAMMALEDVISON.COM for complete Limited Warranty terms and contact information.

2. Setup and Operation

Using the LCD Menu and Buttons

The Bloom X features (2) encoder knobs for activating and navigating the menus. The left knob, labeled "Mode Setting" is used for navigating the main menu. The right knob, labeled "Manual setting" navigates the standalone (non-DMX) mode.

Turn the encoder to navigate up and down thru the menu's. Press down on the encoder to enter the menu or modify the item. Press down again to save the item.

Menu Operation

Mode Setting Menu:

Menu Item	**Value**	**Description**
DMX Address	1-512	Set the DMX Address
Reset	No, Yes	Factory Reset the Fixture
Mode	*Various DMX Modes*	Set the DMX Mode
Language	EN, CH	Set the language to English or Chinese
Option	DMX Loss Set	Set the behavior when DMX is lost.
	Reverse Display	Flip the display for hanging fixtures.
	Display Delay Off	Set the display sleep time after inactivity.
Setup	Password	Set the lockscreen password.
	Dimmer rate	No Function
	Dimmer speed	Se the Dimmer Speed
	CT Adjust	No Function.
Reset Default	No, Yes	Factory Reset the Fixture
Information		View firmware versions, usage hours, and more!

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.

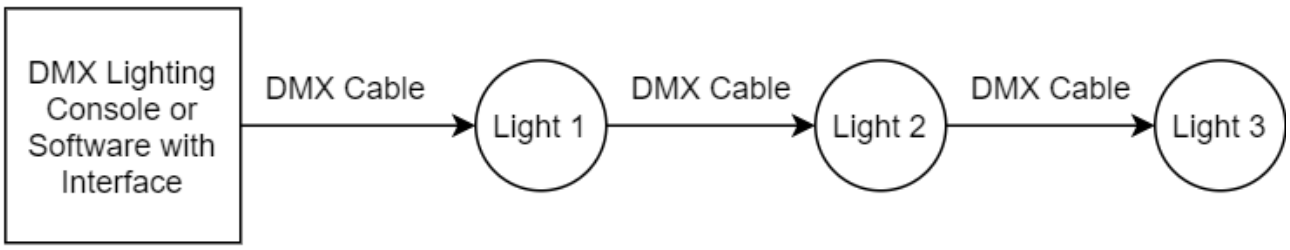
Multiple sets of 512 "universes" may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

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 it's 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.

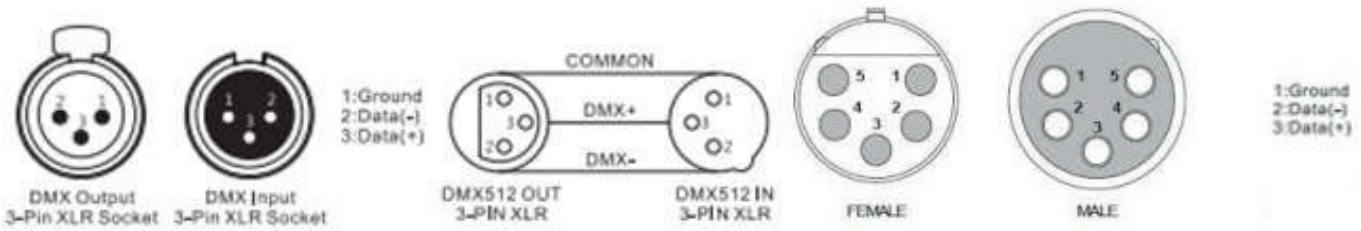
You may then connect your next fixture to the output of your first light, and continue the chain.



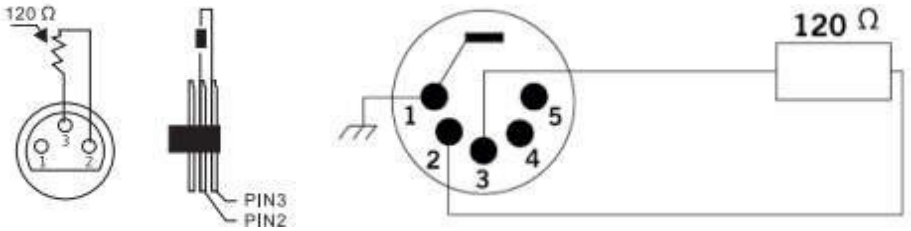
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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 Modes and Configuration

The Bloom X FC 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 chart below to find the mode that best suits your needs.**DMX Channel Mode Sheet:**

On the left side of the sheet you will see the different modes and which channel corresponds to each function listed on the right in the given mode.

HSIC (7CH)	SSP (11CH)	Tour (14CH)	Tour 16 (22CH)	Pixel 1 (5CH)	Pixel 2 (9CH)	Function	Channel Value	Description
1	1	1	1	1	1	Intensity	0-255	Dimmer Control
2						Hue	0-255	Hue Control
3						Hue Fine	0-255	Fine Control of Hue
4						Saturation	0-255	Saturation Control
5						Color Temperature Control	0-10	No Function
							11-30	2700k
							31-50	3000k
							51-70	3200k
							71-90	3500k
							91-110	4000k
							111-130	4200k
							131-150	4500k
							151-170	5600k
							171-190	6000k
							191-210	6500k

HSIC (7CH)	SSP (11CH)	Tour (14CH)	Tour 16 (22CH)	Pixel 1 (5CH)	Pixel 2 (9CH)	Function	Channel Value	Description
							211-230	7200k
							231-255	8000k
			2			Intensity Fine	0-255	Fine Control of Dimmer
	2	2	3	2	2	Red	0-255	Control of Red Intensity
			4			Red Fine	0-255	Fine Control of Red Intensity
	3	3	5	3	3	Green	0-255	Control of Green Intensity
			6			Green Fine	0-255	Fine Control of Green Intensity
	4	4	7	4	4	Blue	0-255	Control of Blue Intensity
			8			Blue Fine	0-255	Fine Control of Blue Intensity
	5	5	9		5	Lime	0-255	Control of Lime Intensity
			10			Lime Fine	0-255	Fine Control of Lime Intensity
	6	6	11		6	Amber	0-255	Control of Amber Intensity
			12			Amber Fine	0-255	Fine Control of Amber Intensity
	7	7	13		7	Cyan	0-255	Control of Amber Intensity
			14			Cyan Fine	0-255	Fine Control of Cyan Intensity
	8	8	15		8	Deep Blue	0-255	Control of Deep Blue Intensity
			16			Deep Blue Fine	0-255	Fine Control of Deep Blue Intensity
	9	9	17	5	9	Color Macros	0-10	No Function
							11-20	L106
							21-30	R05

HSIC (7CH)	SSP (11CH)	Tour (14CH)	Tour 16 (22CH)	Pixel 1 (5CH)	Pixel 2 (9CH)	Function	Channel Value	Description
							31-40	L194
							41-50	R54
							51-60	L019
							61-70	R08
							71-80	R89
							81-90	R86
							90-100	L213
							101-110	R377
							111-120	R80
							121-130	L202
							131-140	L328
							141-150	R3314
							151-160	L101
							161-170	L768
							171-255	No Function
		10	18			Color Macros 2	0-10	No Function
							11-30	Macro 1
							31-50	Macro 2
							51-70	Macro 3
							71-90	Macro 4
							91-110	Macro 5
							111-130	Macro 6
							131-150	Macro 7
							151-170	Macro 8
							171-195	Full Power – All LED's
							196-200	2700k
							201-205	3000k
							206-210	3200k

HSIC (7CH)	SSP (11CH)	Tour (14CH)	Tour 16 (22CH)	Pixel 1 (5CH)	Pixel 2 (9CH)	Function	Channel Value	Description
							211-215	3500k
							216-220	4000k
							221-225	4200k
							226-230	4500k
							231-235	5600k
							236-240	6000k
							241-245	6500k
							246-250	7200k
							251-255	8000k
6	10	11	19			Strobe	0-9	No Function
							10-99	Strobe, Slow to Fast
							100-109	No Function
							110-179	Lightning Strobe, Slow to Fast
							180-189	No Function
							190-255	Random Strobe, Slow to Fast
		12	20			Auto	0-9	No Function
							10-127	Color Change
							128-255	Color Fade
		13	21			Auto Speed	0-255	Macro Speed, Fast to Slow
7	11	14	22			Dimmer Speed	0-9	Use Menu Setting for Dimmer Speed
							10-49	Off (Direct Control)
							50-99	Dimmer Speed 1: Fast
							100-149	Dimmer Speed 2
							150-199	Dimmer Speed 3
							200-255	Dimmer Speed 4: Slow

Standalone Mode and Configuration

By linking the units with DMX cable in a Master/Slave connection, the first unit will control the other units to give an automatic, sound-activated, synchronized light show when the Bloom X FC is placed into Standalone mode by the on-board menu and keys.

3. Maintenance

Routine Maintenance

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, smokey, 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

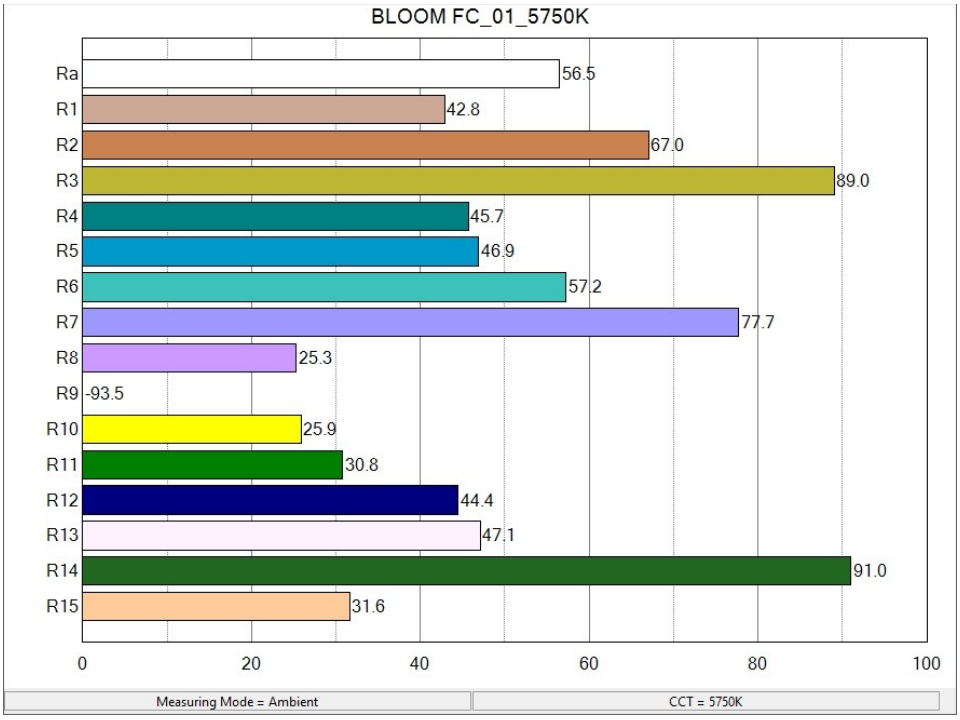
- Input Voltage: AC 100~240V, 50/60Hz
- Total Power consumption: 210W
- LED Sources: 7 Color LED's (RGBLAC+Deep Blue)
- Beam Angle: 30°
- Color Mixing: Full Color Mixing
- Dimmer : 0-100% linear dimming
- Control Mode: DMX512 with RDM
- Cooling – Fanless Convection Cooling
- Waterproof Grade: IP20
- Work Environment Temperature:-20°C ~ 40°C
- Dimension: 24.4"x8"x8"
- Net Weight: 23lbs
- RDM UID 700A308F705D

Photometric Reports

Full White:

Distance in Feet	FC
5	287
10	97
15	40
20	24
25	14
50	3.5

Color Quality:



CRI:

TM30: