Pulse Blinder 600 IP FC

600w RGBA+WW Blinder/Wash Light

WWW.GAMMALEDVISION.COM

User Manual

Contents

Introduction and Setup

Unpacking and In the Box

Thank you for choosing our Pulse Blinder 600 IP 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 receive:

- Pulse Blinder 600 IP FC 1
- Omega Bracket 1
- 3 Pin DMX Cable 1
- True1 Compatible Power Cable 1

Features

- 2 x 300w Full RGBA + WW LED Blinder
- 100° Beam Angle
- 2000k-10000k Color Temperatures
- IP65 Waterproof
- Adjustable PWM Frequency
- 16 Bit Dimmer
- Locking Frame System for custom configurations and fixture arrays.
- Red shift for nostalgic blinder fades.

Mounting and Operation

The Pulse Blinder 600 IP FC offers a variety of hanging options for different scenarios.

Yoke Mounting: Use a clamp rated for the full weight of the Pulse Blinder 600 IP FC 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.

Omega Bracket Mounting: The Pulse Blinder 600 IP FC also provides an omega bracket which you can attach a clamp to for typical clamp mounting. Once the clamp is attached to the omega

bracket, you can attach the omega bracket to the fixture via the 1/4 turn fasteners. The Omega bracket may be used with the yoke, or directly on the top or rear of the fixture.

Multiple fixtures may be latched together via the locks on the top/bottom/sides of the fixture to form larger arrays of fixtures.

As an added safety measure be sure to attach at least one properly rated safety cable to the fixture using one of the handles.

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.

Setup and Operation

Using the LCD Menu and Buttons

The LCD system includes Menu, Up, Down, and Enter buttons to the right of the LCD screen. Press **“Enter”** to enter the menu, press “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	Sub Menu Option	Key Operation
DMX Mode		Set the DMX mode from the options (See DMX chart in this manual for options).
Auto	Dimmer	Set the dimmer level for the auto programs from 0-100
	Effect	Set the auto program - a value of “0” is off, 1-10 trigger various auto programs.
	Speed	Set the speed of the auto programs, 0-100.
Quick Color		Set a static color in manual mode, including strobe.
Color Macro		Set the dimmer and color macro for preset manual colors.
Tunable White	Dimmer	Set the dimmer level for the Tunable white setting, 0-100.
	CCT	Set the Color Temperature, 2000k-10000k
	Tint	Set the magenta/green shift.
User Color	Color 1-Color5	5 Custom colors can be set for standalone operation in this menu. Dimmer, Shutter, and RGBAW channels are all available for use.

Main Menu Option	Sub Menu Option	Key Operation
Settings	Language	Set the language to English or Chinese.
	MOSI Switch	“On” will send DMX data when in standalone mode to remote units.
	Screensaver	Enable screen timer to go off after 30s of inactivity.
	Screenflip	Invert the display
	Screenlock	Set a screen lock, the password is Up, Down, Up, Down, Enter
	DMX Fail	Set the behavior when DMX is lost. “Clear” will black out the fixture, “Hold” will keep the last DMX value, “Litup” will bring all LED’s to full white.
	Dimmer Curve	Set the dimmer response curve from Linear, Square, Anti-Square (Inverse Square), and S-Line.
	Dimmer Bit	Set the dimmer to 8 bit or 16 bit operation.
	Dimmer Resp.	Set the dimmer response emulation. This enables a resistance to quick movements, similar to a halogen blinder. There is an LED Mode (quickest/most responsive), Medium, and Halogen (slow response modeled after halogen DWE lamps).
	LED Frequency	Set the PWM frequency from 1kHZ to 25kHz.
	Redshift	Turn on a halogen-style red shift at the bottom of the dimmer curve when the fixture is set between 2700k-3500k on the CTC Channel.
	Fan	Set the fan modes - silent mode may decrease output in higher temperatures.

Main Menu Option	Sub Menu Option	Key Operation
	Invert Mapping	Flip the DMX control of the 2 cells if the fixture is hung backwards.
	LED Mode	Set a power limit for the LED configured by the factory.
	Restore	Factory reset the fixture - this does NOT reset your language setting.
System Info	Firmware VER	Displays the current firmware version.
	RDM UID	Displays the RDM UID: 030A77F0108A
	Temperature	View the temperature for each LED as well as the maximum temperature reached.
	Power On Time	Display the total powered on time for each LED.
	LED On Time	Display the total LED runtime for each LED.
	Fan State	Display whether the fans are on or off.
	Errors	Displays any errors reported by the fixture.

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.

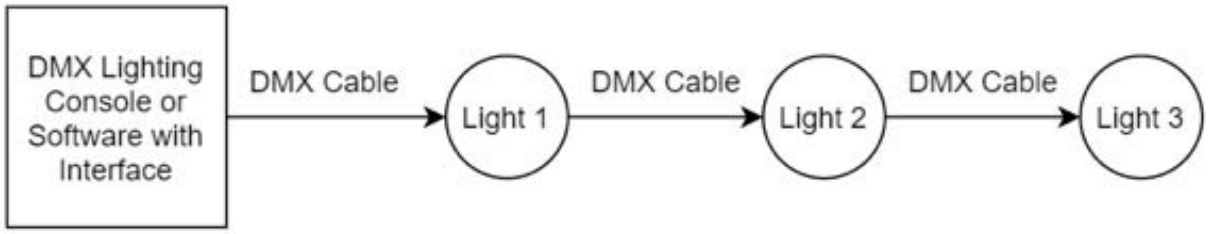
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

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.

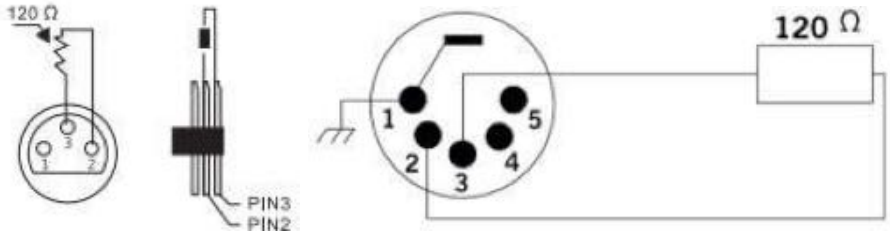


32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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 Channel Mode Sheet:

DWE Modes

These modes emulate halogen DWE, lamp-based blinders. Only the 9CH DWE+ mode has color control.

1CH DWE	2CH DWE	4CH DWE	9CH DWE+	Function	Channel Value	Description
1		1	1	Intensity Cells 1 and 2	0-255	Dimmer Control, Both Cells
	1			Intensity Cell 1	0-255	Dimmer Control, Cell 1
	2			Intensity Cell 2	0-255	Dimmer Control, Cell 2
			2	Strobe	0-19	Closed
					20-24	Open
					25-64	Normal Strobe, Fast to Slow
					65-69	Open
					70-109	Pulse Open, Fast to Slow
					110-114	Open
					115-154	Pulse Closed, Fast to Slow
					155-159	Open
					160-199	Random Strobe, Fast to Slow
					200-204	Open
					205-244	Lightning Effect, Large Pause to Small Pause

1CH DWE	2CH DWE	4CH DWE	9CH DWE+	Function	Channel Value	Description
					245-255	Open
			3	Red - Cells 1 and 2	0-255	Red for Cells 1 and 2
			4	Green - Cells 1 and 2	0-255	Green for Cells 1 and 2
			5	Blue - Cells 1 and 2	0-255	Blue for Cells 1 and 2
			6	CTC Cells 1 and 2	0-4	5600k
					5-255	Linear CTC, 2000k-10000k for Cells 1 and 2. RGB values on channels above MUST be at full for CTC to function.
		2	7	Dimmer Curve	0-51	No Function - Follows Menu Setting
					52-101	Linear
					102-152	Square
					153-203	Inverse Square
					204-255	S-Line
		3	8	Dimmer Response	0-63	No Function - Follows Menu Setting
					64-127	LED (Fast)
					128-191	Medium
					192-255	Halogen (Slow)
		4	9	Red Shift	0-84	No Function - Follows Menu Setting
					85-170	Red Shift Off
					171-255	Red Shift On

Strobe Mode

This mode emulates a traditional strobe unit with CTC, but no color control.

6CH Strobe	Function	Channel Value	Description
1	Intensity	0-255	Dimmer - Cells 1 and 2
2	Strobe	0-19	Closed
		20-24	Open
		25-64	Normal Strobe, Fast to Slow
		65-69	Open
		70-109	Pulse Open, Fast to Slow
		110-114	Open
		115-154	Pulse Closed, Fast to Slow
		155-159	Open
		160-199	Random Strobe, Fast to Slow
		200-204	Open
		205-244	Lightning Effect, Large Pause to Small Pause
		245-255	Open
3	Strobe Duration	0-255	In “normal strobe” mode on the previous channel (25-64), this sets the duration that the strobe stays “On” during the effect.
4	Intensity Cell 1	0-255	Dimmer - Cell 1
5	Intensity Cell 2	0-255	Dimmer - Cell 2
6	CTC Cells 1 and 2	0-4	5600k
		5-255	Linear CTC, 2000k-10000k for Cells 1 and 2.

RGB Modes

These modes give RGB color control (no separate Amber/Warm White).

6CH RGB	10CH Basic RGB	14CH Basic RGB	13CH Standard RGB	Function	Channel Value	Description
	1	1	1	Intensity	0-255	Dimmer - Cells 1 and 2
		2		Intensity Fine	0-255	Fine Control of Cells 1 and 2 Intensity
	2	3	2	Strobe	0-19	Closed
					20-24	Open
					25-64	Normal Strobe, Fast to Slow
					65-69	Open
					70-109	Pulse Open, Fast to Slow
					110-114	Open
					115-154	Pulse Closed, Fast to Slow
					155-159	Open
					160-199	Random Strobe, Fast to Slow
					200-204	Open
					205-244	Lightning Effect, Large Pause to Small Pause
					245-255	Open
	3	4		Red - Cells 1 and 2	0-255	Red for Cells 1 and 2
		5		Red Fine - Cells 1 and 2	0-255	Fine Control of Red, Cells 1 and 2
	4	6		Green - Cells 1 and 2	0-255	Green for Cells 1 and 2
		7		Green Fine - Cells 1 and 2	0-255	Fine Control of Green,

6CH RGB	10CH Basic RGB	14CH Basic RGB	13CH Standard RGB	Function	Channel Value	Description
						Cells 1 and 2
	5	8		Blue - Cells 1 and 2	0-255	Blue for Cells 1 and 2
		9		Blue Fine - Cells 1 and 2	0-255	Fine Control of Blue, Cells 1 and 2
			3	Intensity Cell 1	0-255	Dimmer for Cell 1 (Left)
1			4	Red Cell 1	0-255	Red for Cell 1 (Left)
2			5	Green Cell 1	0-255	Green for Cell 1 (Left)
3			6	Blue Cell 1	0-255	Blue for Cell 1 (Left)
			7	Intensity Cell 2	0-255	Dimmer for Cell 2 (Right)
4			8	Red Cell 2	0-255	Red for Cell 2 (Right)
5			9	Green Cell 2	0-255	Green for Cell 2 (Right)
6			10	Blue Cell 2	0-255	Blue for Cell 2 (Right)
	6	10	11	CTC Cells 1 and 2	0-4	5600k
					5-255	Linear CTC, 2000k-10000k for Cells 1 and 2. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
	7	11	12	Tint Cells 1 and 2	0	No Function
					1-127	Magenta to Neutral Tit
					128	Neutral (No Tint)

6CH RGB	10CH Basic RGB	14CH Basic RGB	13CH Standard RGB	Function	Channel Value	Description
					129-255	Neutral to Green Tint
	8	12		Color Macro 1 Cell 1	0	No Function
					1-255	Fixed Color Macros
	9	13		Color Macros Cross Fade 1	0-5	No Function
					6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
	10	14	13	Control	0-29	No Function
					30-34	8 Bit Mode
					35-39	16 Bit Mode
					40-44	No Function
					45-49	DMX Fail - Blackout
					50-54	DMX Fail - Hold
					55-59	DMX Fail - Full
					60-64	No Function
					65-69	Linear Curve
					70-74	Square Curve
					75-79	Inverse-Square Curve
					80-84	S-Curve
					85-89	No Function
					90-94	Dimming Response LED
					95-99	Dimming Response Medium
					100-104	Dimming Response Halogen
					105-109	No Function

6CH RGB	10CH Basic RGB	14CH Basic RGB	13CH Standard RGB	Function	Channel Value	Description
					110-114	Red Shift On (Affects CTC 2700-3500k)
					115-119	Red Shift Off
					120-124	Reserved
					125-139	No Function
					140-144	PWM Frequency 1kHz
					145-149	PWM Frequency 2kHz
					150-154	PWM Frequency 4kHz
					155-159	PWM Frequency 12kHz
					160-164	PWM Frequency 16kHz
					165-169	PWM Frequency 25kHz
					170-174	No function
					175-179	Fan Auto
					180-184	Fan Silent
					185-189	Fan Off
					190-194	Fan High Power
					195-199	No Function
					200-214	Invert Mapping On
					215-219	Invert Mapping Off
					220-224	No Function
					225-229	LED Mode - Low Power
					230-234	LED Mode - High Power

6CH RGB	10CH Basic RGB	14CH Basic RGB	13CH Standard RGB	Function	Channel Value	Description
					235-239	No Function

Extended RGB Modes

These modes give RGB color control (no separate Amber/Warm White) and 16bit control.

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
1	1	1	Intensity	0-255	Dimmer Control
2		2	Intensity Fine	0-255	Fine Dimmer Control
3	2	3	Strobe	0-19	Closed
				20-24	Open
				25-64	Normal Strobe, Fast to Slow
				65-69	Open
				70-109	Pulse Open, Fast to Slow
				110-114	Open
				115-154	Pulse Closed, Fast to Slow
				155-159	Open
				160-199	Random Strobe, Fast to Slow
				200-204	Open
				205-244	Lightning Effect, Large Pause to Small Pause
				245-255	Open
	3	4	Strobe Duration	0-255	In “normal strobe” mode on the previous channel (25-64), this sets the

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
					duration that the strobe stays “On” during the effect.
4	4	5	Intensity Cell 1	0-255	Dimmer for Cell 1 (Left)
5		6	Intensity Cell 1 Fine	0-255	Fine Control of Intensity on Cell 1 (Left)
6	5	7	Red Cell 1	0-255	Red for Cell 1 (Left)
7		8	Red Cell 1 - Fine	0-255	Fine Control of Red on Cell 1 (Left)
8	6	9	Green Cell 1	0-255	Green for Cell 1 (Left)
9		10	Green Cell 1 - Fine	0-255	Fine Control of Green on Cell 1 (Left)
10	7	11	Blue Cell 1	0-255	Blue for Cell 1 (Left)
11		12	Blue Cell 1 - Fine	0-255	Fine Control of Blue on Cell 1 (Left)
	8	13	CTC Cell 1	0-4	5600k
				5-255	Linear CTC, 2000k-10000k for Cell 1. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
	9	14	Tint Cell 1	0	No Function
				1-127	Magenta to Neutral Tit
				128	Neutral (No Tint)
				129-255	Neutral to Green Tint
	10	15	Color Macro 1 Cell 1	0	No Function
				1-255	Fixed Color Macros

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
	11	16	Color Macros Cross Fade 1	0-5	No Function
				6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
12	12	17	Intensity Cell 2	0-255	Dimmer for Cell 2 (Right)
13		18	Intensity Cell 2 Fine	0-255	Fine Control of Intensity on Cell 2 (Right)
14	13	19	Red Cell 2	0-255	Red for Cell 2 (Right)
15		20	Red Cell 2 - Fine	0-255	Fine Control of Red on Cell 2 (Right)
16	14	21	Green Cell 2	0-255	Green for 2 (Right)
17		22	Green Cell 2 - Fine	0-255	Fine Control of Green on 2 (Right)
18	15	23	Blue Cell 2	0-255	Blue for 2 (Right)
19		24	Blue Cell 2 - Fine	0-255	Fine Control of Blue on 2 (Right)
	16	25	CTC Cell 2	0-4	5600k
				5-255	Linear CTC, 2000k-10000k for Cell 2. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
	17	26	Tint Cell 2	0	No Function
				1-127	Magenta to Neutral Tit
				128	Neutral (No Tint)
				129-255	Neutral to Green Tint
	18	27	Color Macro 1 Cell 2	0	No Function

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
				1-255	Fixed Color Macros
	19	28	Color Macros Cross Fade 2	0-5	No Function
				6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
20			CCT Cells 1 and 2	0-4	5600k
				5-255	Linear CTC, 2000k-10000k for Cells 1 and 2. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
21			Tint Cells 1 and 2	0	No Function
				1-127	Magenta to Neutral Tit
				128	Neutral (No Tint)
				129-255	Neutral to Green Tint
	20	29	Effect Macros	0-15	No Function
				16-45	Effect 1, Slow to Fast
				46-75	Effect 2, Slow to Fast
				76-105	Effect 3, Slow to Fast
				106-135	Effect 4, Slow to Fast
				136-165	Effect 5, Slow to Fast
				166-195	Effect 6, Slow to Fast
				196-225	Effect 7, Slow to Fast
				226-255	Effect 8, Slow to Fast
	21	30	Dimmer Curve	0-51	No Function - Follows

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
					Menu Setting
				52-101	Linear
				102-152	Square
				153-203	Inverse Square
				204-255	S-Line
	22	31	Dimmer Response	0-63	No Function - Follows Menu Setting
				64-127	LED (Fast)
				128-191	Medium
				192-255	Halogen (Slow)
	23	32	Red Shift	0-84	No Function - Follows Menu Setting
				85-170	Red Shift Off
				171-255	Red Shift On
22	24	33	Control	0-29	No Function
				30-34	8 Bit Mode
				35-39	16 Bit Mode
				40-44	No Function
				45-49	DMX Fail - Blackout
				50-54	DMX Fail - Hold
				55-59	DMX Fail - Full
				60-64	No Function
				65-69	Linear Curve
				70-74	Square Curve
				75-79	Inverse-Square Curve

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
				80-84	S-Curve
				85-89	No Function
				90-94	Dimming Response LED
				95-99	Dimming Response Medium
				100-104	Dimming Response Halogen
				105-109	No Function
				110-114	Red Shift On (Affects CTC 2700-3500k)
				115-119	Red Shift Off
				120-124	Reserved
				125-139	No Function
				140-144	PWM Frequency 1kHz
				145-149	PWM Frequency 2kHz
				150-154	PWM Frequency 4kHz
				155-159	PWM Frequency 12kHz
				160-164	PWM Frequency 16kHz
				165-169	PWM Frequency 25kHz
				170-174	No function
				175-179	Fan Auto
				180-184	Fan Silent
				185-189	Fan Off
				190-194	Fan High Power
				195-199	No Function
				200-214	Invert Mapping On

22CH Standard RGB	24CH Extended RGB	33CH Extended RGB	Function	Channel Value	Description
				215-219	Invert Mapping Off
				220-224	No Function
				225-229	LED Mode - Low Power
				230-234	LED Mode - High Power
				235-255	No Function

Direct Modes

These modes offer direct control of LED's in a variety of modes.

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
	1	1	1	1	Intensity	0-255	Dimmer Control
				2	Intensity Fine	0-255	Fine Dimmer Control
	2	2	2	3	Strobe	0-19	Closed
						20-24	Open
						25-64	Normal Strobe, Fast to Slow
						65-69	Open
						70-109	Pulse Open, Fast to Slow
						110-114	Open
						115-154	Pulse Closed, Fast to Slow
						155-159	Open
						160-199	Random Strobe, Fast to Slow

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
						200-204	Open
						205-244	Lightning Effect, Large Pause to Small Pause
						245-255	Open
			3	4	Strobe Duration	0-255	In “normal strobe” mode on the previous channel (25-64), this sets the duration that the strobe stays “On” during the effect.
	3				Red - Cells 1 and 2	0-255	Red for Both Cells
	4				Green - Cells 1 and 2	0-255	Green for Both Cells
	5				Blue - Cells 1 and 2	0-255	Blue for Both Cells
	6				Amber - Cells 1 and 2	0-255	Amber for Both Cells
	7				White - Cells 1 and 2	0-255	White for Both Cells
		3	4	5	Intensity Cell 1	0-255	Dimmer for Cell 1 (Left)
				6	Intensity Cell 1 Fine	0-255	Fine Control of Intensity on Cell 1 (Left)
1		4	5	7	Red Cell 1	0-255	Red for Cell 1 (Left)
				8	Red Cell 1 - Fine	0-255	Fine Control of Red on Cell 1 (Left)
2		5	6	9	Green Cell 1	0-255	Green for Cell 1 (Left)
				10	Green Cell 1 - Fine	0-255	Fine Control of Green on Cell 1 (Left)
3		6	7	11	Blue Cell 1	0-255	Blue for Cell 1 (Left)
				12	Blue Cell 1 - Fine	0-255	Fine Control of Blue on Cell 1 (Left)
4		7	8	13	Amber Cell 1	0-255	Blue for Cell 1 (Left)
				14	Amber Cell 1 - Fine	0-255	Fine Control of Blue on Cell 1 (Left)

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
5		8	9	15	White Cell 1	0-255	Blue for Cell 1 (Left)
				16	White Cell 1 - Fine	0-255	Fine Control of Blue on Cell 1 (Left)
			10	17	CTC Cell 1	0-4	5600k
						5-255	Linear CTC, 2000k-10000k for Cell 1. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
			11	18	Tint Cell 1	0	No Function
						1-127	Magenta to Neutral Tit
						128	Neutral (No Tint)
						129-255	Neutral to Green Tint
			12	19	Color Macro 1 Cell 1	0	No Function
						1-255	Fixed Color Macros
			13	20	Color Macros Cross Fade 1	0-5	No Function
						6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
		9	14	21	Intensity Cell 2	0-255	Dimmer for Cell 2 (Left)
				22	Intensity Cell 2 Fine	0-255	Fine Control of Intensity on Cell 2 (Left)
6		10	15	23	Red Cell 2	0-255	Red for Cell 2 (Left)
				24	Red Cell 2 - Fine	0-255	Fine Control of Red on Cell 2 (Left)
7		11	16	25	Green Cell 2	0-255	Green for Cell 2 (Left)

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
				26	Green Cell 2 - Fine	0-255	Fine Control of Green on Cell 2 (Left)
8		12	17	27	Blue Cell 2	0-255	Blue for Cell 2 (Left)
				28	Blue Cell 2 - Fine	0-255	Fine Control of Blue on Cell 2 (Left)
9		13	18	29	Amber Cell 2	0-255	Blue for Cell 2 (Left)
				30	Amber Cell 2 - Fine	0-255	Fine Control of Blue on Cell 2 (Left)
10		14	19	31	White Cell 2	0-255	Blue for Cell 2 (Left)
				32	White Cell 2 - Fine	0-255	Fine Control of Blue on Cell 2 (Left)
			20	33	CTC Cell 2	0-4	5600k
						5-255	Linear CTC, 2000k-10000k for Cell 2. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
	8	15			CTC - Both Cells	0-4	5600k
						5-255	Linear CTC, 2000k-10000k for Cells 1 and 2. Note: The CTC and Tint Channels ONLY affect output when all coarse color channels are at full. When any coarse color channel is lower than full, the light transitions back into color mode.
			21	34	Tint Cell 2	0	No Function

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
						1-127	Magenta to Neutral Tit
						128	Neutral (No Tint)
						129-255	Neutral to Green Tint
	9	16			Tint - Both Cells	0	No Function
						1-127	Magenta to Neutral Tit
						128	Neutral (No Tint)
						129-255	Neutral to Green Tint
			22	35	Color Macro 1 Cell 2	0	No Function
						1-255	Fixed Color Macros
			23	36	Color Macros Cross Fade Cell 2	0-5	No Function
						6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
	10				Color Macro 1 - Cells 1 and 2	0	No Function
						1-255	Fixed Color Macros
	11				Color Macro Cross Fade - Cells 1 and 2	0-5	No Function
						6-255	Sets the Crossfade Speed for the Color Macros, Fast to Slow.
			24	37	Effect Macros	0-15	No Function
						16-39	Effect 1, Slow to Fast
						40-63	Effect 2, Slow to Fast
						64-87	Effect 3, Slow to Fast
						88-111	Effect 4, Slow to Fast
						112-135	Effect 5, Slow to Fast
						136-159	Effect 6, Slow to Fast

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
						160-183	Effect 7, Slow to Fast
						184-207	Effect 8, Slow to Fast
						208-231	Effect 9, Slow to Fast
						232-255	Effect 10, Slow to Fast
			25	38	Dimmer Curve	0-51	No Function - Follows Menu Setting
						52-101	Linear
						102-152	Square
						153-203	Inverse Square
						204-255	S-Line
			26	39	Dimmer Response	0-63	No Function - Follows Menu Setting
						64-127	LED (Fast)
						128-191	Medium
						192-255	Halogen (Slow)
			27	40	Red Shift	0-84	No Function - Follows Menu Setting
						85-170	Red Shift Off
						171-255	Red Shift On
	12	17	28	41	Control	0-29	No Function
						30-34	8 Bit Mode
						35-39	16 Bit Mode
						40-44	No Function
						45-49	DMX Fail - Blackout
						50-54	DMX Fail - Hold

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
						55-59	DMX Fail - Full
						60-64	No Function
						65-69	Linear Curve
						70-74	Square Curve
						75-79	Inverse-Square Curve
						80-84	S-Curve
						85-89	No Function
						90-94	Dimming Response LED
						95-99	Dimming Response Medium
						100-104	Dimming Response Halogen
						105-109	No Function
						110-114	Red Shift On (Affects CTC 2700-3500k)
						115-119	Red Shift Off
						120-124	Reserved
						125-139	No Function
						140-144	PWM Frequency 1kHz
						145-149	PWM Frequency 2kHz
						150-154	PWM Frequency 4kHz
						155-159	PWM Frequency 12kHz
						160-164	PWM Frequency 16kHz
						165-169	PWM Frequency 25kHz
						170-174	No function
						175-179	Fan Auto

10CH Direct	12HC Direct	17CH Direct	28CH Direct	41CH Direct	Function	Channel Value	Description
						180-184	Fan Silent
						185-189	Fan Off
						190-194	Fan High Power
						195-199	No Function
						200-214	Invert Mapping On
						215-219	Invert Mapping Off
						220-224	No Function
						225-229	LED Mode - Low Power
						230-234	LED Mode - High Power
						235-255	No Function

Maintenance

Routine Maintenance

Fan Cleaning

Periodically do a visual inspection of the fans. If they are dirty, power off the unit and use a small electronics vacuum to clean the fans out. Do not use a can of C02 or an Air Compressor. These will simply blow the dust into the unit and may leave other residue.

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

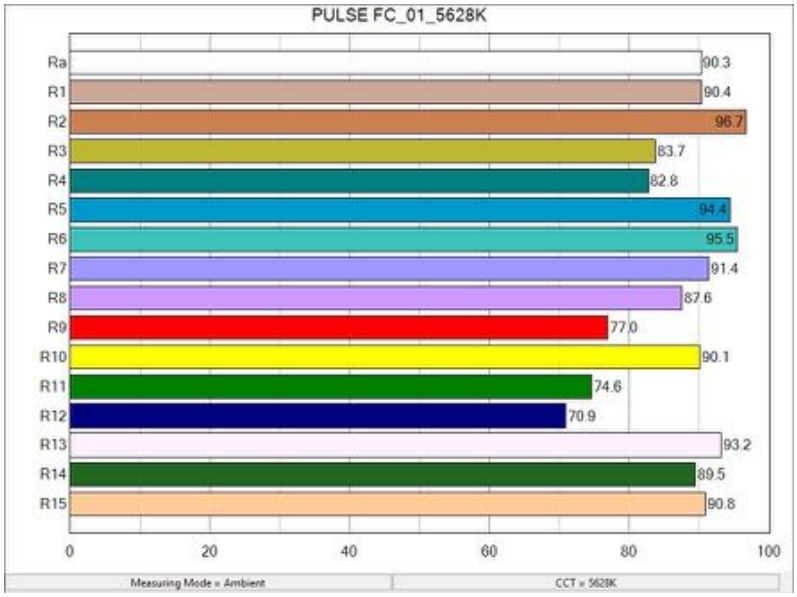
- 1*350W RGBAL LED Array
- 2500k-6500k variable white.
- 50,000 hours life and low power consumption
- 100° Beam Angle
- 0-100% Smooth and precise linear dimmer
- DMX512 with RDM Control as well as stand-alone.
- 4-Button LCD display
- PowerCon connector IN/OUT
- 3-Pin XLR connectors IN/OUT
- Fanless heatsink cooling
- IP65 protection rating
- AC100-240V 50-60HZ
- Max. Power: 700W
- Dimensions: 19.81”x 11.34” x 7.7”
- Net Weight: 21lbs
- RDM UID: 030A77F0108A

Photometrics

Distance in Ft	FC at Full
5	497
10	158
15	60
25	20
50	6

Color Quality

CRI:



TM30: