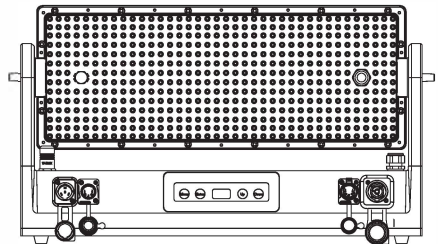
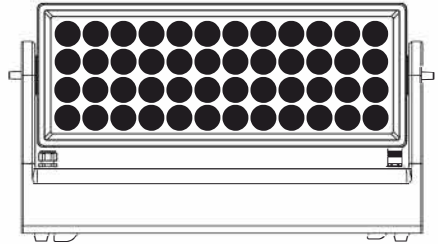


SHOWPRO

FUSIONWASH XLVIII

RGBW IP65-rated wash light
with snap-on beam shaping filters and
advanced thermal (fanless) design

LEDWSH480



USER MANUAL

EN




WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment. 

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

TABLE OF CONTENTS

Safety

General instructions
Warnings and installation precautions
General information

1 Introduction

1.1 Description and Technical specifications

1.2 Maintenance

Cleaning the unit
Fuse replacement
Trouble shooting

1.3 Operating elements and connections

2 Installation

2.1 Mounting

2.2 Dimensions

3 Functions and settings

3.1 Operation

3.2 Basic

3.3 Menu structure

3.4 Menu functions

3.5 DMX linking example

3.6 Photometrics

3.7 Connection of the DMX line

3.8 Construction of the DMX termination

3.9 DMX channel charts

3.10 DMX channel mode summary

Packing content

Fusion Wash Q48

- Snap-on filter
- Power cable
- User manual

INTRODUCTION

The FUSIONWASH Q48 is an RGBW IP65-rated wash light with snap-on beam shaping filters and advanced thermal (fanless) design.

FEATURES

- 48 x 10W RGBW LEDs deliver 22K lumens of perfectly blended color
- Interchangeable magnetized beam shaping filters for precise control of light output
- 3 zone independent control of horizontal sections
- Silent operation suitable for indoor studio as well as outdoor use
- Selectable LED modulation for flicker-free output from 600Hz ~ 25kHz
- Ultra-linear dimming technology for flawless color mixing
- Indestructible diecast body and tempered glass front panel
- Virtual color wheel and white presets from 2800 ~ 10000K
- Four selectable dimmer curve modes
- Quik-Lok (Omega) bracket for easy installation
- Available optics: 10°, 15°, 25°, 45°
- Included accessories: 60° Diffuser, Omega bracket, safety cable
- Optional accessories: Barndoors, diffusers (40°, 10x60°, 30x60°)
- RDM, DMX and W-DMX wireless control

SPECIFICATIONS

Light Source:	48 x 10W RGBW LEDs
Beam Angle:	25°
Output (lumens):	22760 lm
Output (lux):	5364 lx @ 5 meters @ 25°
Color Mixing:	RGBW
Strobe:	1-30 Hz
Dimming:	4 dimming curve modes
Control:	RDM, DMX and W-DMX
DMX Channels:	4 / 6 / 10 / 16
Power linking:	up to 3 units @ 230V
Display:	OLED display with touch navigation menu
Mains:	100 - 240 VAC, 50/60 Hz
Consumption:	521W @ 230V
Power connections:	Powerkon True IP65 In/Out
Data connections:	IP65 DMX XLR In/Out
Housing:	Diecast aluminum, tempered glass
Tilt angle:	+/- 90° (manual)
Finish:	Matte black
IP rating:	IP65
Cooling:	Passive (fanless)
Dimensions:	563 x 93 x 314 mm
Weight:	12.9 KG

- 1.2 - MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

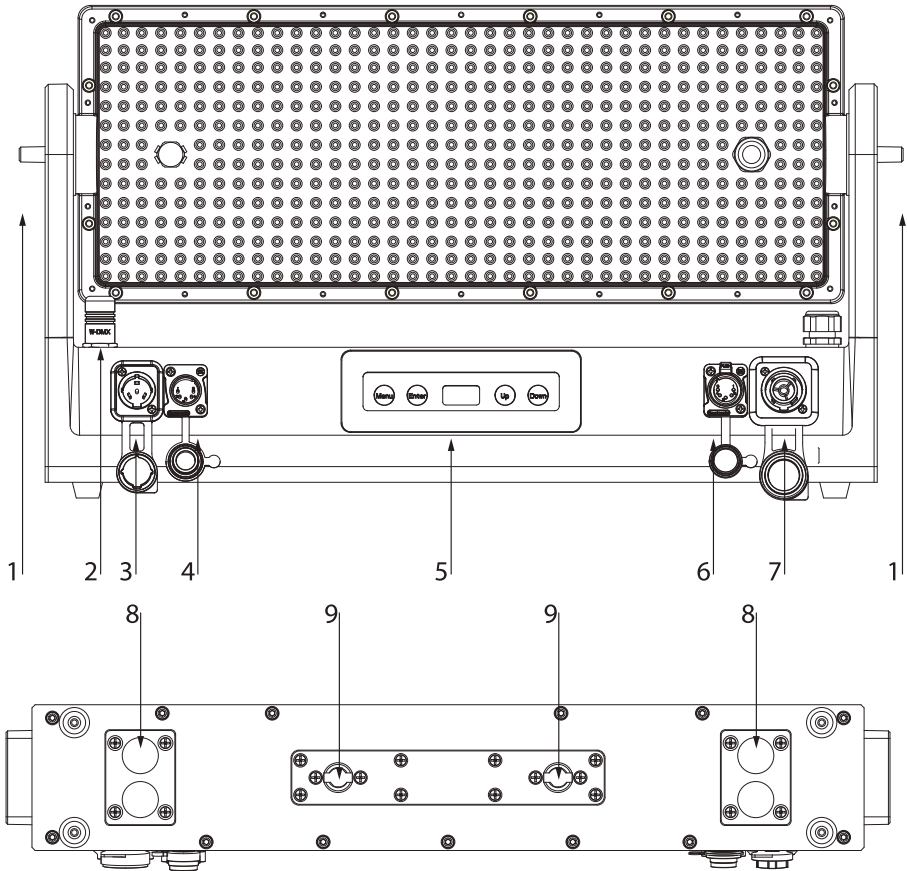
- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

In case of technical issues that cannot be resolved following about troubleshooting tips, contact your authorized dealer for service.

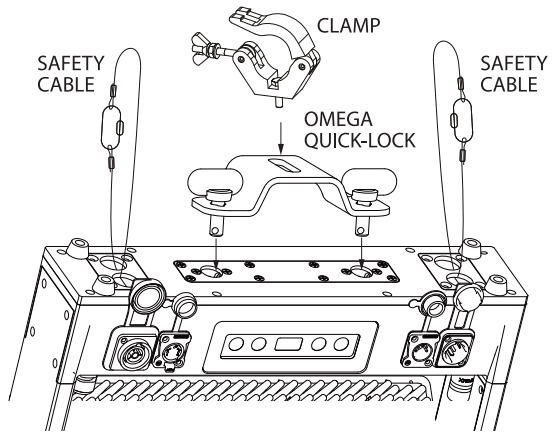
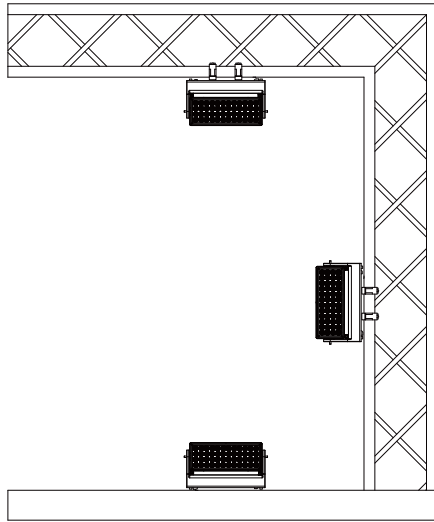
1.3 OPERATING ELEMENTS AND CONNECTIONS



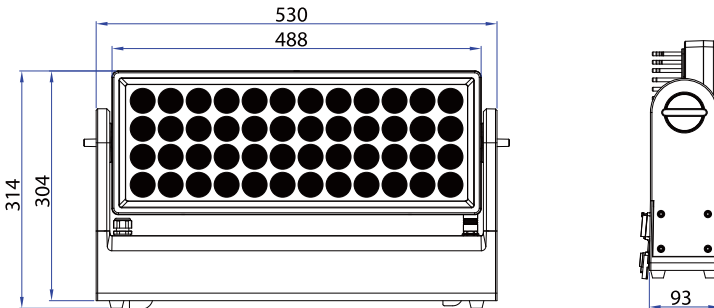
1. KNOB
2. W-DMX receiver
3. POWER IN [PowerCON TRUE IN ~100-240V/50-60Hz]
4. DMX IN [5-pin XLR]
5. CONTROL PANEL with OLED function menu and 4-button navigation
6. DMX OUT [5-pin XLR]
7. POWER OUT [PowerCON TRUE OUT]
8. ANCHOR for safety cable
9. ATTACHMENT for Quick-lock Omega bracket

- 2 - INSTALLATION

2.1 MOUNTING



2.2 DIMENSIONS



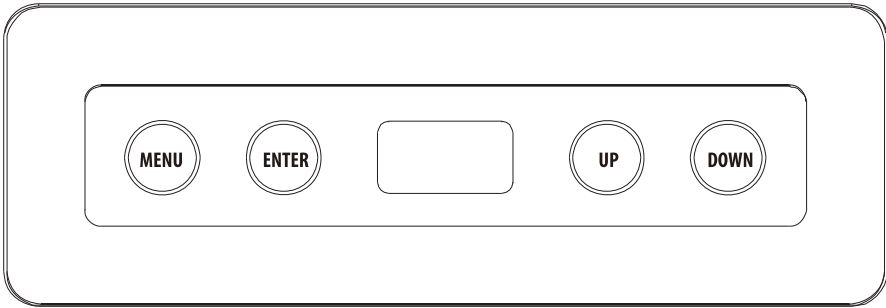
- 3 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Connect the supplied main cable to a socket (100-240V~/50-60Hz). Then the unit is ready for operation and can be operated via a DMX controller or it independently performs its show program in succession. To switch off, disconnect the mains plug from the socket. For a more convenient operation it is recommended to connect the unit to a socket which can be switched on and off via a light switch.

3.2 BASIC

Access control panel functions using the four panel buttons located directly underneath the black OLED display.



MENU

Used to access the menu or to return a previous menu option

UP

Navigates downwards through the menu list and increases the numeric value when in a function

DOWN

Navigates upwards through the menu list and decreases the numeric value when in a function

ENTER

Used to select and store the current menu or confirm the current function value or option within a menu

3.3 MENU STRUCTURE

NO.	Main Menu	Menu level 2	Menu level 3	Menu level4	Remark		
1	CONNECT	DMX Address	1		Default : 001		
		DMX Mode	4CH		Default : 10CH		
			6CH				
			10CH				
			16CH				
		Wireless	Receive On/Off	On		Default :Off	
				Off			
				Receive Reset	No		Default :No
	Yes						
2	SETUP	Screen	Backlight	On	Default : 10S		
				10S			
				20S			
			30S				
		Key Lock	No		Default :No		
			Yes				
3	ADVANCED	Dimmer Mode	Off		Default: Off		
			Dimmer1				
			Dimmer2				
			Dimmer3				
		White Balance	Adjust	Off		Default: Off	
				Red	<125-255>		
				Green	<125-255>		
				Blue	<125-255>		
					White	<125-255>	
					600Hz		Default:1200Hz
					1200Hz		
					2000Hz		
4000Hz							
6000Hz							
25kHz							
Factory Reload	No		Default :No				
	Yes						
4	INFORMATION	Fixture Time	0-9999		Default : 0		
		Version	V1.0				
		UID	030E*****				

3.3 MENU STRUCTURE (cont'd)

5	STAND ALONE	Master/Slave	Master		Default : Slave	
			Slave			
		Effects	Effect1	Speed		Default: Effect1, Speed=100
					
			Effect9		1-100	
		Static	Fixed Color	R		Default: RGBW
				G		
				B		
				W		
				GB		
				RB		
				RG		
				RGB		
				RW		
				GW		
BW						
RGW						
RBW						
GBW						
RGBW						
Manual color	Red	<000-255>	Default: RGBW= 255			
	Green	<000-255>				
	Blue	<000-255>				
	White	<000-255>				

3.4 MENU FUNCTIONS

CONNECT: Set DMX Address, choose DMX Mode, or activate Wireless receiver

SETUP:

Select display auto-blackout delay in seconds, or set key lock password

****Important**** Enter default password by pressing navigation buttons in this order:

UP DOWN ENTER

3.4 MENU FUNCTIONS (cont'd)

ADVANCED:

Dimmer Mode: Choose preferred dimmer curve (1, 2 or 3) or turn off for a linear dimming curve

White Balance: Adjust RGBW values to tune the default white balance

LED Frequency: Select the LED frequency that best matches video recording equipment

INFORMATION: View total operating hours, installed firmware version, and unique fixture ID

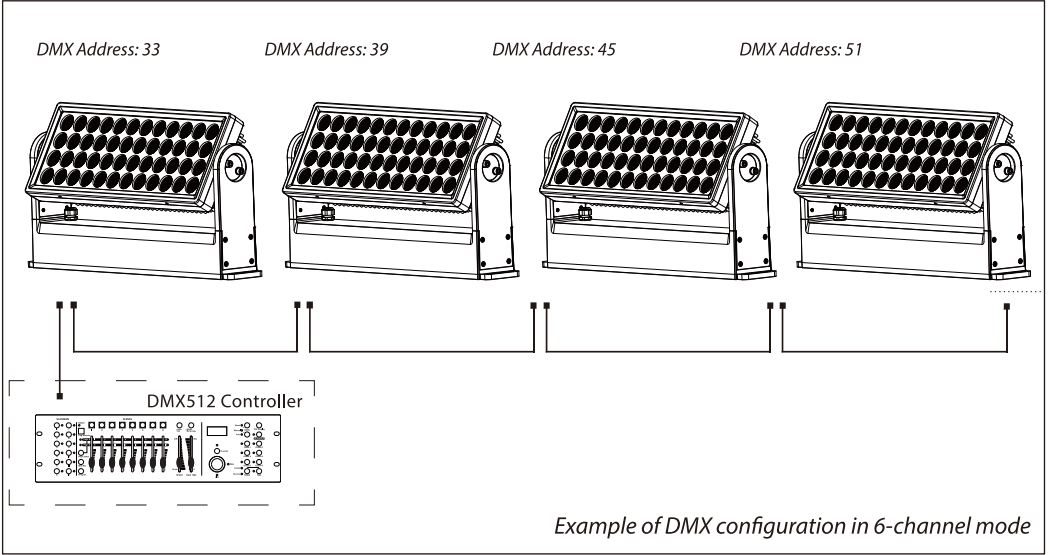
STANDALONE:

Master/Slave: Select master to set fixture to operate as master fixture
in a network with no external controller

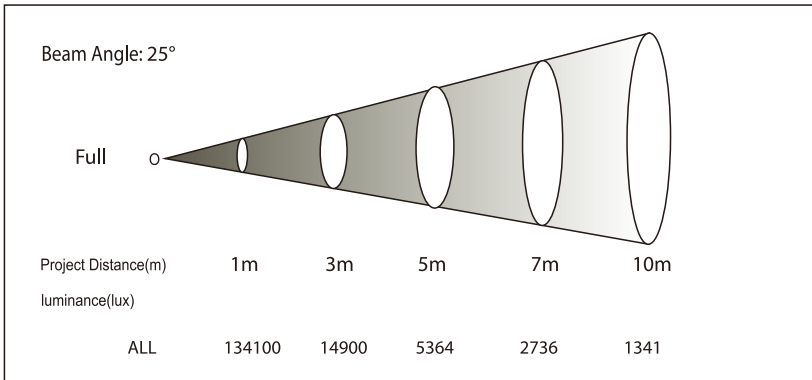
Effects: Select from a library of pre-programmed effects

Static: Select from a library of static colors or enter the Manual color submenu to mix custom colors

3.5 DMX LINKING EXAMPLE



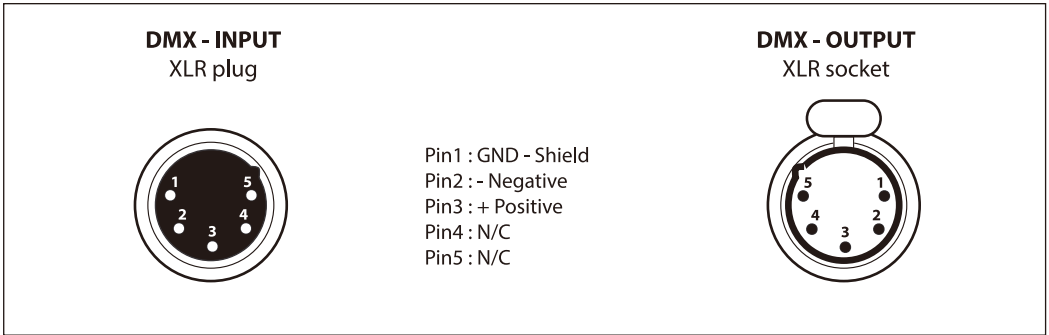
3.6 PHOTOMETRICS



3.7 CONNECTION OF THE DMX LINE

DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.

The following diagram shows the connection mode:



ATTENTION

The screened parts of the cable (sleeve) must never be connected to the system's earth, as this would cause faulty fixture and controller operation.

Over long runs can be necessary to insert a DMX level matching amplifier.

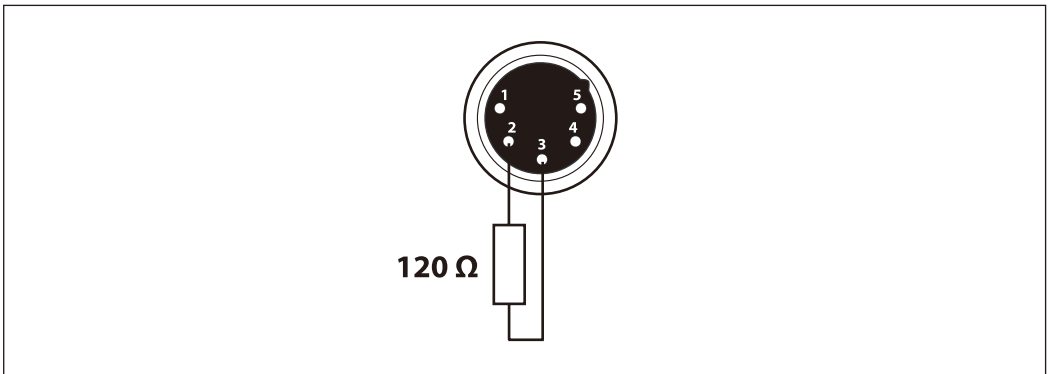
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- Connect the controller DMX input to the DMX output of the first unit.
- Connect the DMX output to the DMX input of the following unit. Connect again the output to the input of the following unit until all the units are connected in chain.
- When the signal cable has to run longer distance is recommended to insert a DMX termination on the last unit.

3.8 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reach the end of the line: under certain conditions and with certain cable lengths, this could cause them to cancel the original signals.

The termination is prepared by soldering a 120Ω 1/4 W resistor between pins 2 and 3 of the 5-pin male XLR connector, as shown in figure.



3.9 DMX CONTROL

4CH	Function	Value	Percent/Setting
1	Red	000-255	0~100%
2	Green	000-255	0~100%
3	Blue	000-255	0~100%
4	White	000-255	0~100%

6CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	White	000-255	0~100%
6	Strobe	000-010	NO Function
		011-255	Strobe Slow to Fast

10CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	White	000-255	0~100%
6	Strobe	000-010	No function
		011-255	Strobe slow to fast
7	Color Macro	000~010	No Function
		011~030	R 100%, G 0~100%, B 0%
		031~050	R 100%~0%, G 100%, B 0%
		051~070	R 0%, G 100%, B 0~100%
		071~090	R 0% G 100%~0% B 100%
		091~110	R 0%~100% G 0% B 100%
		111~130	R 100% G 0% B 100%~0%
		131~150	R 100% G 0%~100% B 0%~100%
		151~170	R 100%~0% G 100%~0% B 100%
		171~200	R 100% G 100% B 100% W100%
		201~205	Color 1
		206~210	Color 2
		211-215	Color 3
		216-220	Color 4
		221-225	Color 5
		226-230	Color 6
		231-235	Color 7
236-240	Color 8		
241-245	Color 9		
246-250	Color 10		
251-255	Color 11		

3.9 DMX CONTROL

8	Effects	000-010	No Function
		011-037	Effect 1
		038-064	Effect 2
		065-091	Effect 3
		092-118	Effect 4
		119-145	Effect 5 (Effects 1- 4)
		146-172	Effect 6
		173-199	Effect 7
		200-226	Effect 8
		227-255	Effect 9 (Effects 6- 8)
9	Effects speed	000-255	Effects speed slow to fast
10	Dimmer Speed Mode	000-051	Preset dimmer speed from display menu
		052-101	Dimmer speed mode off
		102-152	Dimmer speed mode 1 (fast speed)
		153-203	Dimmer speed mode 2 (middle speed)
		204-255	Dimmer speed mode 3 (slow speed)

16CH	Function	Value	Percent/Setting
1	Red 1	000-255	0~100%
2	Green 1	000-255	0~100%
3	Blue 1	000-255	0~100%
4	White 1	000-255	0~100%
5	Red 2	000-255	0~100%
6	Green 2	000-255	0~100%
7	Blue 2	000-255	0~100%
8	White 2	000-255	0~100%
9	Red 3	000-255	0~100%
10	Green 3	000-255	0~100%
11	Blue 3	000-255	0~100%
12	White 3	000-255	0~100%
13	Red 4	000-255	0~100%
14	Green 4	000-255	0~100%
15	Blue 4	000-255	0~100%
16	White 4	000-255	0~100%

3.10 DMX MODES

4-channel mode: Basic RGBW dimming

6-channel mode: Basic RGBW dimming + master dimmer + strobe

10-channel mode: Offers color and effect macros + dimmer curve selection

16-channel mode: Allows for RGBW control of 4 independent horizontal rows

SHOWPRO