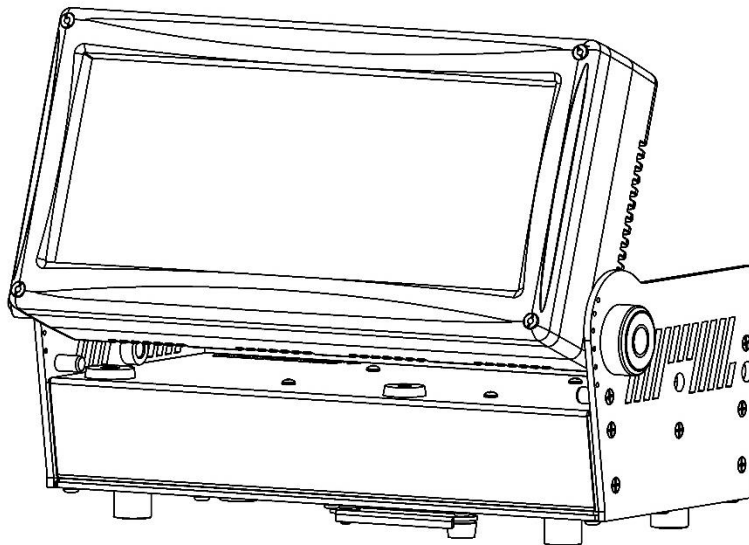


# ***S400 COLOR PANEL-C4***

## **User Manual**



 **STAGEHERO**

S400-C4

Weight: 7.0 KG

Power: 440 W

Color : RGBW

Ver. 1.0.1

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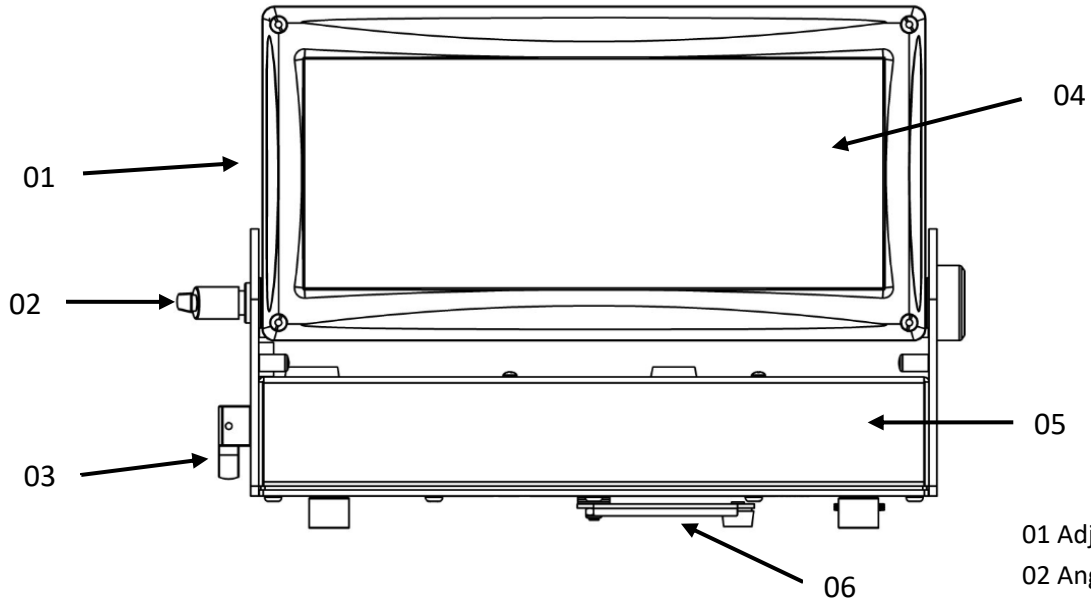
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## **I. Safety information:**

1. Prior to any operation or installation of fixtures, carefully examine the fixture thoroughly for all the mechanical parts if any parts had been loose due to transportation. And perform routine maintenance regularly.
2. Make sure the supplied voltage to the fixtures is stable, to avoid causing damage to the fixtures.
3. Always check input voltage before connecting mains to the fixture.
4. To ensure best performance and product lifespan, it is suggested to use in a well-ventilated environment.
5. Do not dismantle the fixtures when power is connected. In cases of services or repairs are required, always consult with a certified dealer or technician.
- 6 Be sure to check and set up the fixture installation first prior to powering up the fixtures.
7. Do not look directly into the fixture lighting source, it may cause injuries to eyes.
8. For wiring, use minimum of 2.0mm<sup>2</sup> cable.
9. Keep minimum distance of 0.5 meter away from any flammable items. Avoid touching the fixture when in use.
10. In event of installation or serving, ensure the power is disconnected first.

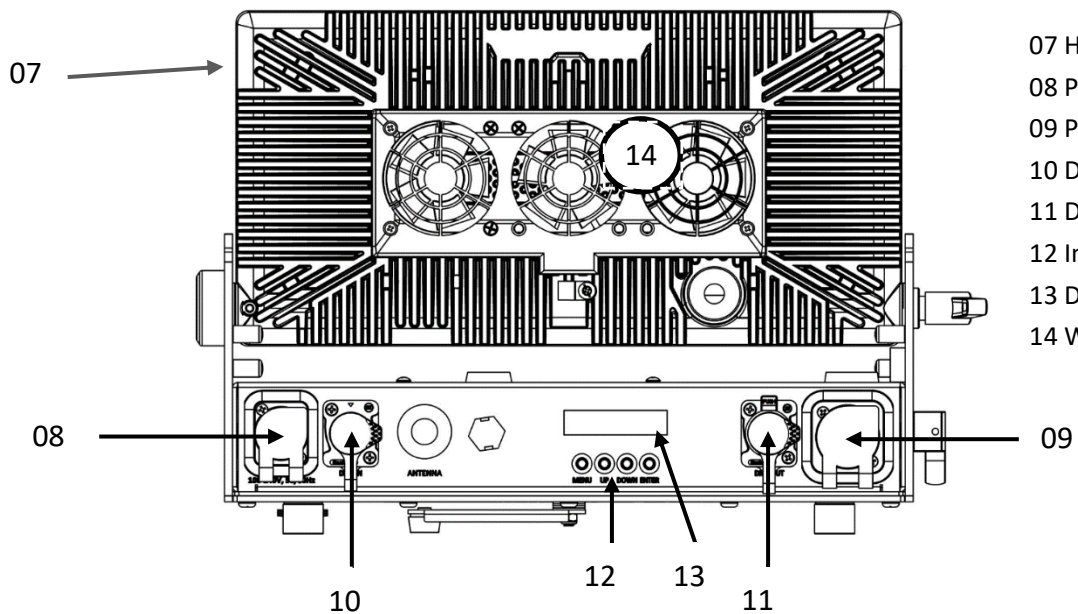
## II. Fixture exterior view

Front View



- 01 Adjustable fixture head
- 02 Angular-adjust lever
- 03 Foldable handle
- 04 Light panel
- 05 Fixture base
- 06 Supporting bracket

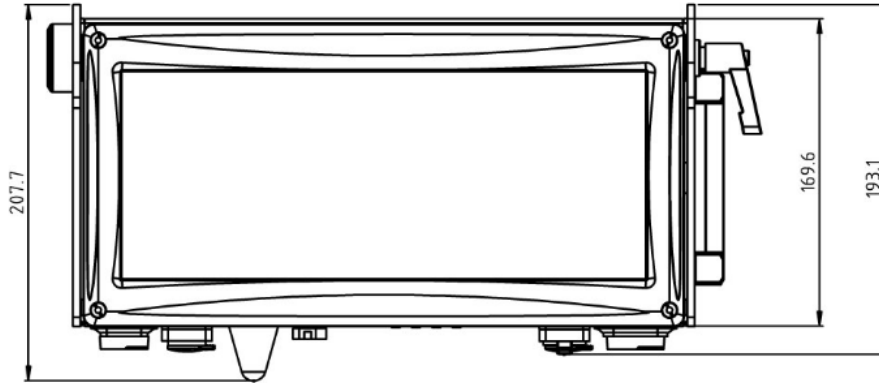
Rear View



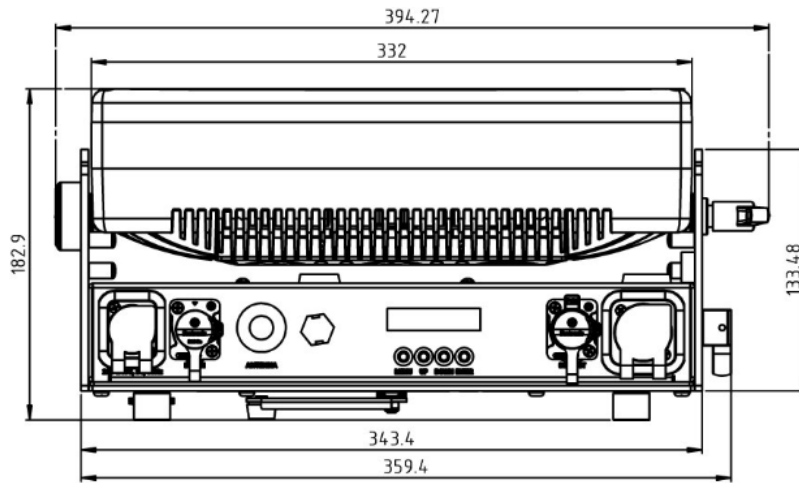
- 07 Heatsink
- 08 Power in
- 09 Power out
- 10 DMX in
- 11 DMX Out
- 12 Input buttons
- 13 Display
- 14 Waterproof fans

### III. Product Dimension

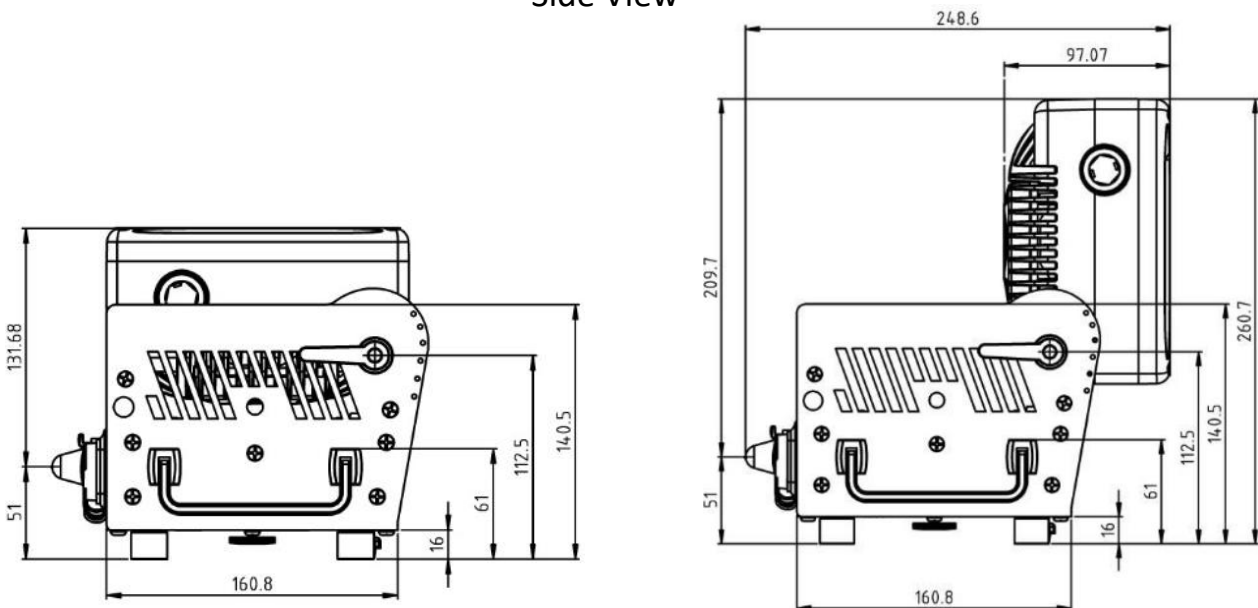
Top View



Rear View



Side View



## IV. Product information

### 1. Product specification

The S400 Color Panel-C4 provides a special pixel-less and even light output, offering a unique but homogeneity projection in extremely wide angle. The high performance 0-100% smooth dimming with multiple selectable curves and speed, can be used in different types of applications and filed.

The fixture is relatively small in footprint, yet very powerful and punchy in brightness for total lumen of 39,000. The complete enclosure is built to IP65 ingress protection, which guarantees the fixture to be used indoor or even outdoor events.

- DMX Channels : 4/7/14/19 CH.
- Light Source : 288 x Osram<sup>®</sup> RGBW LED;
- Light output: 39,000 Lumen;
- Input Voltage: 100-240V,50/60Hz;
- Power Consumption: 440W;
- Display: 16x2 Character type with back light.
- Optics: Light emitting diffusion panel.
- Beam Angle: 100°;
- Dimming: 0—100% Linear dimming
- Selectable 8 bit or 16 bit high resolution dimmer.
- 5 Selectable dimmer curves with 3 selectable dimmer speed.
- Built-in 39 Color Wheel
- Built-in Shutter, strobe & pulse effect
- Support Master/Slave operation for playback.
- Built-in LumenRadio<sup>®</sup> wireless DMX module.
- IP65 ingress protection rating
- Design & Manufactured in Taiwan

Dimension: 395 x 208 x 183 mm;

Packaging dimension: 462 x 282 x 264 mm;

Net Weight: 7.0 KG;

Gross Weight : 8.2 KG.

### 2. Illuminance:

DISTANCE	1m	2m	3m	4m	5m	6m	7m
RED	3371 lx	843 lx	375 lx	211 lx	135 lx	94 lx	69 lx
GREEN	6141 lx	1535 lx	682 lx	384 lx	246 lx	171 lx	125 lx
BLUE	247 lx	62 lx	27 lx	15 lx	10 lx	7 lx	5 lx
WHITE	4938 lx	1235 lx	549 lx	309 lx	198 lx	137 lx	101 lx
RGBW	14782 lx	3696 lx	1642 lx	924 lx	591 lx	411 lx	302 lx

## VI .Fixture menu navigation

### Simplified Menu (if enabled)

Main Menu	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Address	DMX Address	1-509	001-* - (xxx)				
DMX Mode	Standard*						
	Advanced						
	Compressed						
	RGBW						
Wireless DMX	Enable	Yes					
		No*					
Advanced Menu*	Enter Password(9999)						

To access the full function advanced menu, navigate to “Advanced Menu” and enter “9999”to access.

### Advanced Menu (all functions)

Main Menu	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7 (1/4)
Address	DMX Address	1-509	001-* - (xxx)				
Personality	DMX Mode	Standard*					
		Advanced					
		Compressed					
		RGBW					
	Wireless DMX	Enable	Yes				
			No*				
		Link	Yes: Link				
			No: Unlink				
	Remote DMX Addr.	On*					
		Off					
	Dimmer Curve	Standard					
		Linear					
		Theatrical*					
		Square Law					
		Inverse Square					
	Dimmer Speed	Fast					
		Smooth*					
		Ultra-Smooth					
	Color Shift Ctrl	Disabled*					
		Enable					
PWM Rate Setting	600 Hz						
	1200 Hz*						
	2000 Hz						
	2400 Hz						

Main Menu	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7 (2/4)		
Personality	PWM Rate Setting	12000 Hz							
		24000 Hz							
		30000 Hz							
	Cooling Mode	Auto*							
		Whisper							
		Silent							
		Standard							
	Mic Enable	High power							
		Disable*							
	Mic Sensitivity	Enable							
		Normal*							
		High							
	Reset via DMX	Low							
		On* / Off							
	Display Settings	On* / Off	Cancel*						
			Confirm						
		Intensity	1-10						
		Shut-off time	Off*						
			2 minutes						
			3 minutes						
			4 minutes						
			5 minutes						
			10 minutes						
			15 minutes						
			20 minutes						
			30 minutes						
			40 minutes						
		50 minutes							
		60 minutes							
	No signal flash	On*							
		Off							
	Flip Display	Off *							
		On							
	Temperature unit	Celsius *							
		Fahrenheit							
	No DMX	Shutter Closed*							
		Hold							
		Play Program1							
	Fixture ID	Disabled*							
		Set	1-255						
	Lock	Off*							
		On							
		Set Password	****						
	Boot Mode	Select Mode	DMX*						
			Static						



Main Menu	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7 (3/4)
Personality	Boot Mode	Select Mode	Program				
		DMX Hi Priority	On*				
	Language	English*					
		Japanese					
Stand-Alone	Test Sequence	Run					
		Cancel*					
	Master / Slave	Alone*	confirm				
		Master	confirm				
		Slave	Slave 1*				
			Slave 2				
	Slave 3						
	Static Mode	Static Mode 1	Dimmer	0-255			
			Shutter Duration	0-255			
			Shutter Flash Rate	0-255			
			Shutter Effects	0-255			
			Color Wheel	0-255			
			Red	0-255			
			Green	0-255			
			Blue	0-255			
			White	0-255			
			CTO	0-255			
			Pattern	0-255			
			Pattern Speed	0-255			
			Control	0-255			
			Remote DMX Addr.	0-255			
			Reset	Yes No*			
	Program Edit	Program 1	Max Steps	01-30			
			Select Step	01-30			
			Capture DMX	Yes/Cancel			
			Hold Time(s)	000-999 (s)			
			Fade Time(s)	000-999 (s)			
Program 2		(See above)					
Program 3		(See above)					
Reset Program		Reset Program1	No* Yes				
		Reset Program2	No* Yes				
		Reset Program3	No* Yes				
		Reset All	No* Yes				

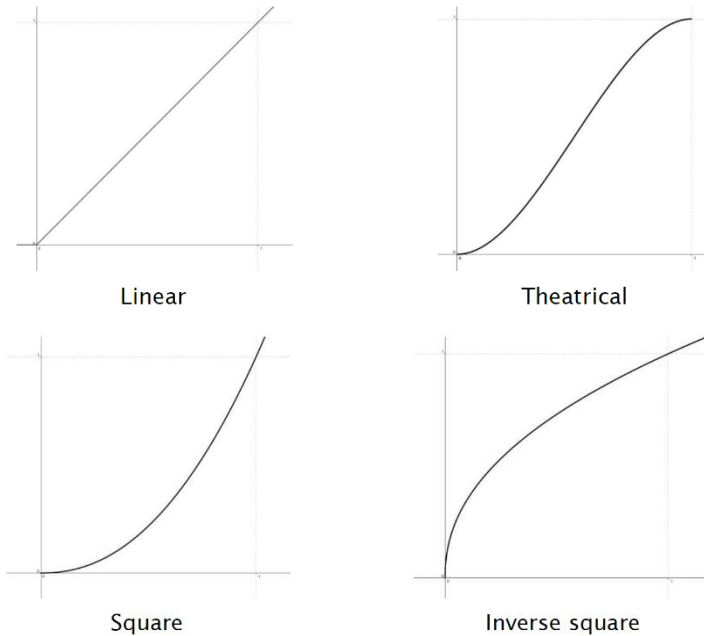
Main Menu	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7 (4/4)	
Stand-Alone	Program Play	Program 1	No* / Yes					
		Program 2	No* / Yes					
		Program 3	No* / Yes					
		Program All	No* / Yes					
Service	Reset	Fixture Reset	Yes					
			No*					
	Calibrations	Color CALIB.	Disable					
			Enable*					
Factory Default	Load	No*						
		Yes						
Information	Fixture time	Resettable	xxx Hours					
		Total	xxx Hours					
		Clear Resettable	Clear Cancel	Cancel* Clear				
	Fixture Temp.	Head LED	Actual	xxx C / F				
			Max	xxx C / F				
			Reset Max	Cancel* Confirm				
		Base Driver	(See above)	(See above)				
	Firmware version	xxxxxxx						
	Serial Number	xxxxxxxxx						
	Product ID	S400 Panel-C4						
DMX Live	Refresh rate	xxx Hz						
	Dimmer	0-255						
	Dimmer Fine	0-255						
	Shutter Duration	0-255						
	Shutter Flash Rate	0-255						
	Shutter Effects	0-255						
	Color Wheel	0-255						
	Red	0-255						
	Red Fine	0-255						
	Green	0-255						
	Green Fine	0-255						
	Blue	0-255						
	Blue Fine	0-255						
	White	0-255						
	White Fine	0-255						
	CTO	0-255						
	Pattern	0-255						
	Pattern Speed	0-255						
	Control	0-255						
	Remote DMX Addr.	0-255						

## Fixture functionality:

### Personality menu:

#### **Dimmer Curve:**

Fixture has built-in 4 dimmer curves to choose from for different applications and preferences, as in the following graphic:



#### **Reset via DMX:**

Fixture can be remotely triggered for fixture resets by the DMX “control” channel when needed. This function can be set “Off” to prevent accidental triggering of fixture resets.

#### **No DMX:**

In the event of signal loss or no DMX signal detected, fixture can be configured to the perform the following 3 states:

- Shutter Closed:** Keep all the values received last and close the shutter only.
- Hold:** Keep the last received DMX signal and hold.
- Play Static: Call up the “Static” cue stored in the fixture.** (Requires a set up value/cue in the “Static” mode.)

### Service submenu:

#### **Color Calibration:**

All fixtures are calibrated for color consistency in production, however if the maximum and raw color output is preferred, toggle the on / off settings as below:

- Enable\*: Color calibration activated (Default), color consistency across different fixtures.
- Disable: Raw color output, uncalibrated & maximum color output, but will have color differences between different fixtures or in different production batch. Minor color shift might be occurred during dimming.

## Quick-Access keys:

Function	Description
<b>Software Reboot</b>	Press & Hold the “Menu” key for 3 seconds.
<b>Restore Factory Default</b>	Press & Hold “Menu+Enter” under main menu, fixture will access to “Load” screen, select “Yes” to restore default settings.
<b>Firmware Update</b>	Turn off fixture, then press & hold ” Menu + Enter” and turn on power, fixture will enter bootloader for firmware update mode.

## VII.DMX Channels

Standard	Advanced	Compressed RGBW	RGBW	DMX	Function
1	1	7	-	0-255	<b>Dimmer</b>
-	2	-	-	0-255	<b>Dimmer fine</b>
2	3	-	-		<b>Shutter Duration</b>
				0-005	Default duration 20ms
				006-250	Pulse duration short to long (20ms strobe)
				251-255	Open (on)
3	4	-	-		<b>Shutter Flash Rate</b>
				0-005	No Flash (Blackout)
				006-010	Single flash
				011-250	Strobing (slow to fast, 0.5 - 25 Hz)
				251-255	Full Open - or priority given to shutter effects channel (DMX @ 016-199).
4	5	6	-		<b>Shutter Effects</b>
				0-015	Reserved for Shutter Flash Rate Channel
				016-047	Shutter pulse (random effects /slow to fast)
				048-079	Ramp up (random effects /slow to fast)
				080-111	Ramp down (random effects /slow to fast)
				112-143	Ramp up &down (random effects /slow to fast)
				144-199	Strobe pause effect (slow to fast / 5s – 1s)
200-255	Reserved for Shutter Flash Rate Channel				
5	6	1	-	0-255	<b>Color Wheel</b>
6	7	2	1	0-255	<b>Red</b>
-	8	-	-	0-255	<b>Red fine</b>
7	9	3	2	0-255	<b>Green</b>
-	10	-	-	0-255	<b>Green fine</b>
8	11	4	3	0-255	<b>Blue</b>
-	12	-	-	0-255	<b>Blue fine</b>
9	13	5	4	0-255	<b>White</b>
-	14	-	-	0-255	<b>White fine</b>
10	15	-	-	0-255	<b>CTO</b>
11	16	-	-		<b>Pattern</b>
				0-009	All Segments
				010-128	Segment 1
				129-245	Segment 2
				246-255	All Segments
12	17	-	-	0-255	<b>Pattern Speed (Reserved)</b>
13	18	-	-	0-255	<b>Control</b>
14	19	-	-	0-255	<b>Remote DMX Addressing</b>

## VIII. Appendix

### - Color Wheel Table

DMX	Description
0-005	No function / Inactive, color mixing with RGBW
006-010	Moroccan Pink
011-015	Pink
016-020	Special rose Pink
021-025	Follies Pink
026-030	Fuchsia Pink
031-035	Surprise Pink
036-040	Congo Blue
041-045	Tokyo Blue
046-050	Deep Blue
051-055	Just Blue
056-060	Medium Blue
061-065	Double CT Blue
066-070	State Blue
071-075	Full CT Blue
076-080	Half CT Blue
081-085	Steel Blue
086-090	Lighter Blue
091-095	Light Blue
096-100	Medium Blue Green
101-105	Dark Green
106-110	Primary Green
111-115	Moss Green
116-120	Fern Green
121-125	JAS Green
126-130	Lime Green
131-135	Spring Yellow
136-140	Deep Amber
141-145	Chrome Orange
146-150	Orange
151-155	Gold Amber
156-160	Millennium Gold
161-165	Deep Golden Amber
166-170	Flame Red
	Color Wheel Rotating Effect
171-185	Color Wheel Rotating Clockwise (Fast to Slow)
186-190	Color Wheel Rotating Stop
191-205	Color Wheel Rotating Counter-Clockwise (Fast to Slow)
206-210	Color Wheel Rotating Stop
	Random Color
211-225	Fast to Slow
	White Colors
226-230	White - 2700K
231-235	White - 3200K
236-240	White - 4200K
241-245	White - 5600K
246-250	White - 7200K
251-255	White - 8000K

## - DMX Control (Ch. 13 / Ch. 18)

DMX	Description
0-010	No function / Reserved
011-015	Fan Auto
016-020	Fan Silent
021-025	Fan Standard
026-030	Fan High Power
031-035	Reserved
036-040	Remote DMX Address Low for value 1+ (001-256)
041-045	Reserved
046-050	Remote DMX Address High for value 257+ (257-512)
051-055	Reserved
056-060	Dimmer Speed: Smooth
061-065	Dimmer Speed: Fast
066-070	Reserved
071-075	Dimmer Curve: Linear
076-080	Dimmer Curve: Theatrical
081-085	Dimmer Curve: Square Low
086-090	Dimmer Curve: Inverse Square Low
091-095	Reserved
096-100	No DMX: Hold
101-105	No DMX: Shutter Closed
106-110	No DMX: Play Program 1
111-115	Reserved
116-120	Display Backlight: On
121-125	Display Backlight: Off
126-130	Reserved
131-135	Reserved
136-140	DMX Mode: Standard
141-145	DMX Mode: Advanced
146-150	DMX Mode: Compressed RGBW
151-155	DMX Mode: RGBW
156-255	Reserved