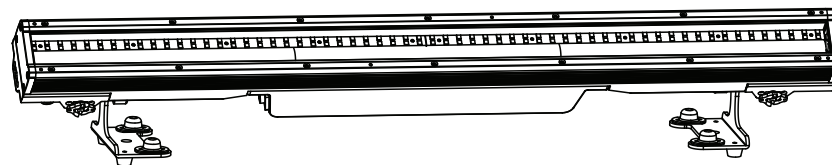


User manual

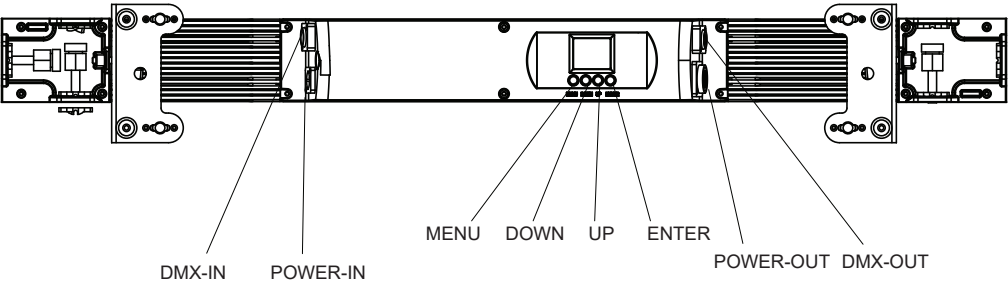
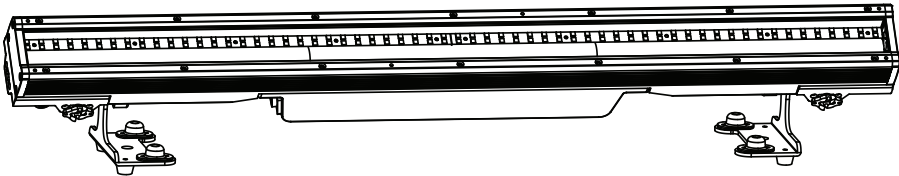
SCORPIUS-STACK



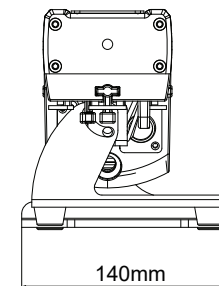
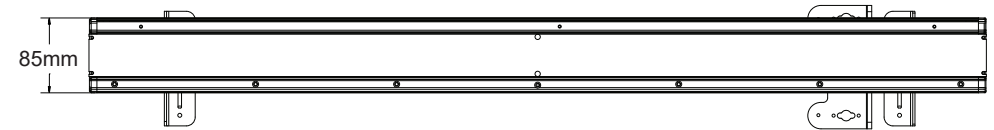
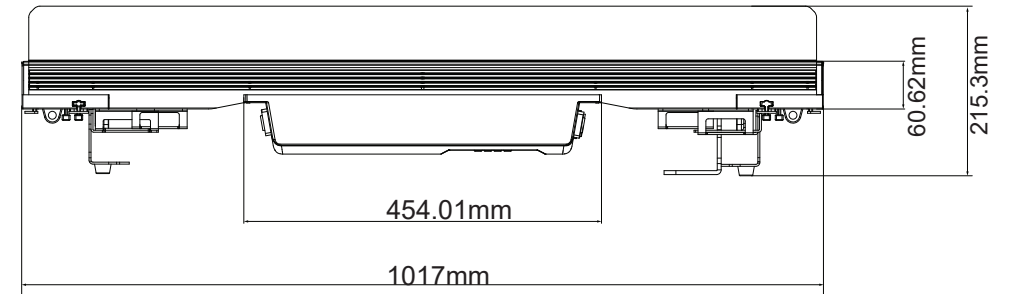
Please read carefully before use

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

Product Overview



Mechanical Specification



Packaging: Thanks for your purchasing the SCORPIUS-STACK. All the lights have been checked and are in excellent operating condition. Please check the shipping carton first. Because there maybe damage occurred during the shipment. Then check the lights carefully and be sure that the light is intact and works normally. In the event damage has been found, spare parts are missing or the lights works abnormally, please contact us for further instructions. And please don't return the light to the dealer before contacting us.

Introduction:The SCORPIUS-STACK has four operating modes: DMX mode, Auto mode, Master/Slave and Sound mode. And the light has seven DMX channel. DMX channel is including 3 channel, 9 channel, 22 channel, 36 channel, 50 channel and 92 channel. You can see 13 kinds of shows when you open the Auto mode .All then all the lights in Master/Slave mode will run following the one in Auto mode. Using fog or special effect smoke, you can see better showing effect.

Warning!

1. For the sake of preventing the risk of electrical shock or fire.
2. Don't look directly at the opening lights all the time, or it may damage your eyes.

RDM---Remote Device Management

RDM is a wild version of the DMX512-A protocol, allowing dimming stations and other control devices to be discovered through a DMX512 network, and then configuring, status monitoring, and managing intermediate and line end devices.

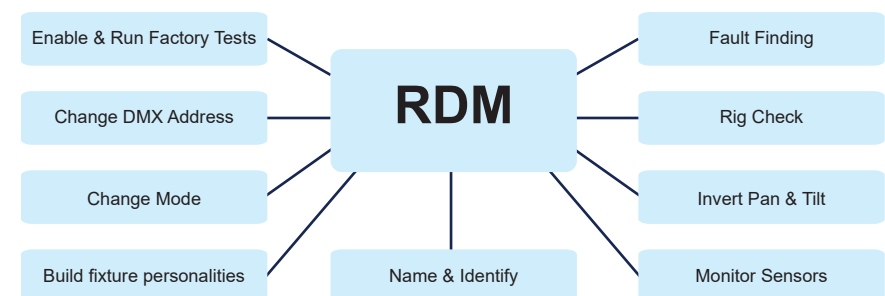
It allows two-way communication between the lighting device or system controller and the connected RDM compatible device through the standard DMX. This protocol will allow these devices to be configured, monitored, and managed in a manner that does not interfere with the normal operation of standard DMX512 devices that do not recognize the RDM protocol.

Allow a controller or test device to find other devices that can be RDM, such as computer lights or dimming cabinets, and remotely manage them through this connection intelligence. Including the ability to remotely set the initial address of the DMX512, query the device's errors or statistics, and achieve most of the configuration settings that are usually done on the front panel of the device. RDM can run with the new RDM device or any original DMX512 product on the same data link without any performance impact. Since RDM runs on the first team DMX512 link, the only infrastructure upgrade required by RDM is to upgrade the existing data distributor to implement a two-way mode to support RDM.

The RDM information is transmitted through the first pair of DMX512 data channels. RDM uses packets that include non-zero initial codes to start and control communications. This alternating(rotating) session and waiting for indicative responses is performed in a semi-duplex format. The second data pair is not used for any RDM function.

Two-way data transmission-each vendor's equipment can exchange data, Art-net can only transmit data, can not exchange with each other.

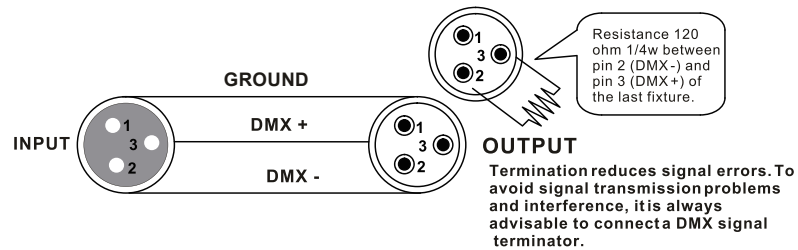
Its functions are as followed:



CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX connector configuration



caution: Do not allow contact between the ground and the fixture's chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

Note! If you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

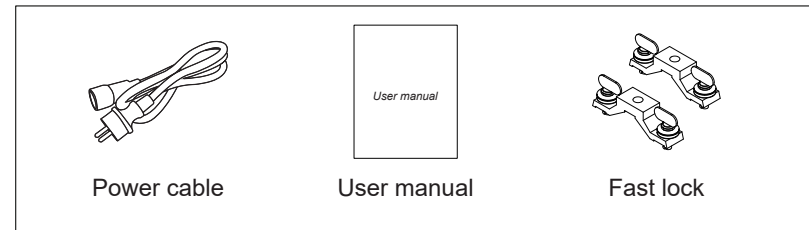
3-PIN TO 5-PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

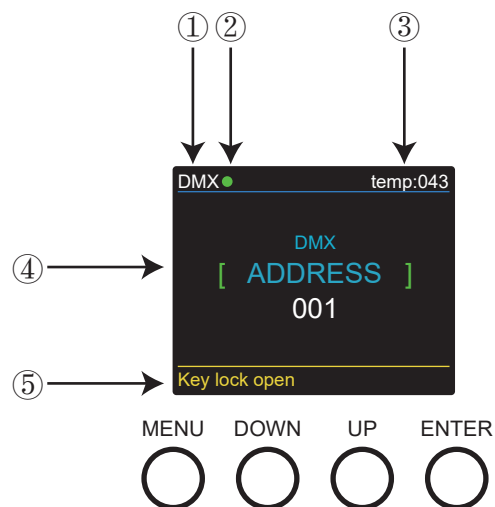
Features

- Light Source: 360pcs*1W W + 384pcs*0.5W RGB 3in1 Led
- Beam angle: 90°
- Power consumption: 300W
- Voltage: AC 110-230V 50/ 60Hz
- Run mode: DMX 512 /Master Slave /Auto Run
- DMX channels: 3, 10, 22, 36, 50 & 92 CH
- Built-in Effect: color mixing, variable color chasing, strobing and fading
- Fan controlled by PWM waves
- 4 dimmer curves
- TFT displayer with four buttons
- Material: Aluminum body
- IP65
- Temperature: -20°C ~ 40°C
- Dimension: 1017×140×147mm
- N.W: 6 KG
- G.W: 8 KG

Accessory



Displayer introduction



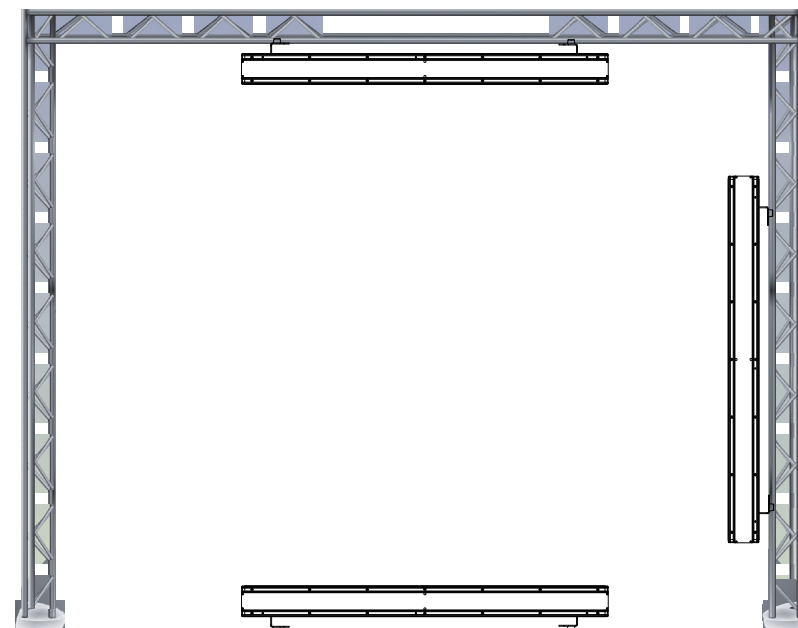
1. DMX means the light is in the DMX mode. Similarly, SLAVE means the light is in the SLAVE mode.
2. The color of the point shows the condition of signal transmission. Green represents the good condition, while red represents the signal is interrupted.
3. The item shows the working temperature of the light. When the working temperature exceeds the max temperature, the color of the letters and number will change from white to yellow.
4. This item shows the menu you selected.
5. This item shows the condition of key lock. "Key lock open" means the key lock is open. And "Key lock off" means the key lock is close.

Mounting

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.

The installation should be checked by a skilled person once a year.



The SCORPIUS-STACK is fully operational in three different mounting positions, hanging upside-down from a ceiling, set on a flat level surface or mount the unit on its side. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). And you'd better use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails (see next page).

SET UP-In this menu, you can adjust the values of the function.

1. Press "ENTER" and then press "UP" or "DOWN" to "SET UP".
2. Press "ENTER" and there has 6 options then press "ENTER" to choose the options and press "UP" or "DOWN" to choose the value you desired as below:
 - 1) Dimmer Curve - In this item, You can choose the dimming curve mode you want.
 - 2) Dimmer Speed - In this item, You can choose the dimming speed mode you want.
 - 3) Dimmer ALL - You can adjust the brightness of color in this menu.
 - 4) White Balance - You can adjust the brightness of each color in this menu.
 - 5) Key Lock - You can choose "ON" or "OFF" to make the Key Lock turn on or off.
 - 6) Display - You can choose "ON" or "30s" to make the position of the light screen.
 - 7) Glasses - In this item, You can choose "on" or "off", when you open, at this time, the electronic frost filter glass will show the frost filter effect. When you select off, the frost filter effect will be turned off.
 - 8) Display Orientation - In this item, you can choose normal or inverted. In normal mode, the display does not change. In inverted mode, the display content is reversed.

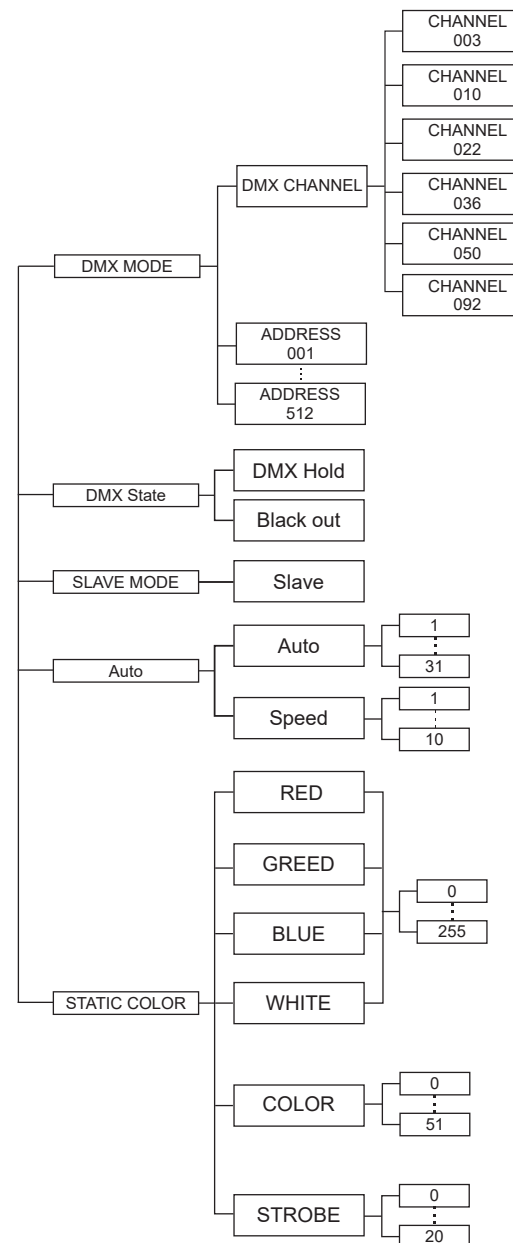
INFORMATION-In this menu, you can learn about the information of software, hardware, RDM, run time and the max temp of the light.

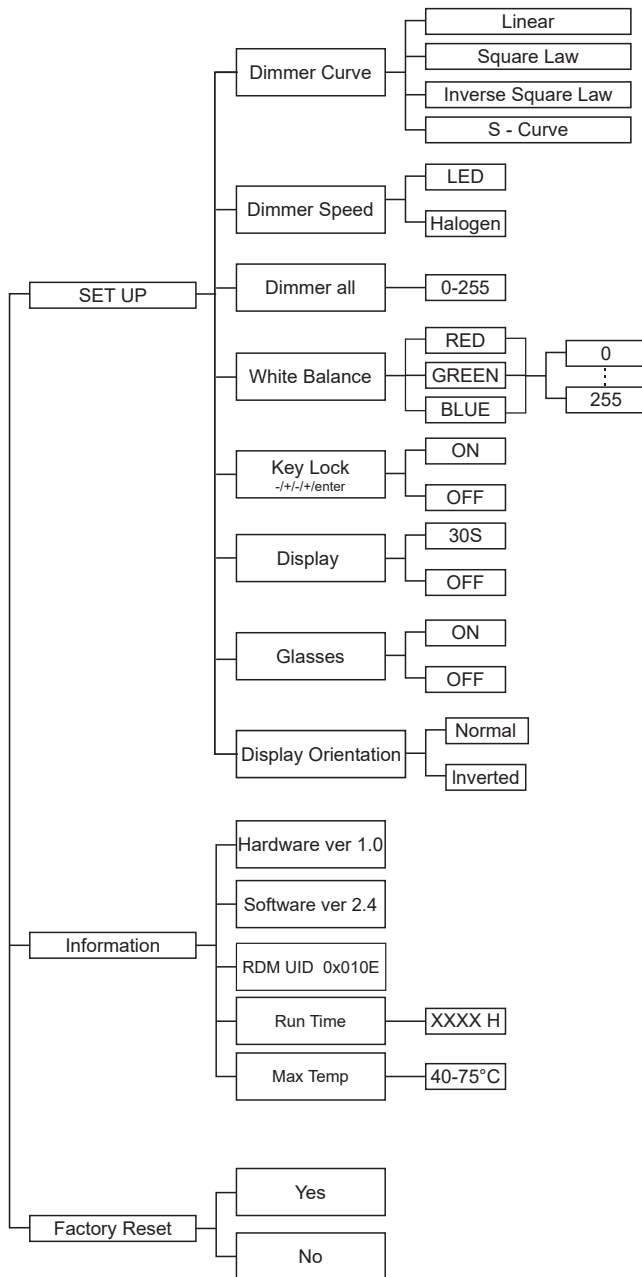
1. Press "ENTER" button and then UP or DOWN button until "INFORMATION" is showed.
2. Press "ENTER" button, and "Software" "Hardware" or "Fix times" will be showed. Then press ENTER, and you can see three items as below:
 - 1) Hardware ver - This item displays the Hardware information.
 - 2) Software Ver- This item displays the Software information.
 - 3) RDM: UID - This item displays the RDM Version.
 - 4) Run Time: - This item displays the Run Time of light .
 - 5) Max Temp: - You can set the your desired Max working temperature about the light in this menu. When the working temperature of the light exceeds the Max temperature, the color of letter "Temp xx" showed in the menu will change from white to yellow. Meanwhile, the light will adjust the working temperature automatically.

FACTORY RESET-In this menu, you can reset all the value of the system.

1. Press "ENTER" and then press "UP" or "DOWN" to "FACTORY RESET".
2. Press "ENTER" to reset all the values of the system.

Programme Menu





DMX MODE-In this menu,you can connect several pieces of lights with DMX cable and control them with the control console.

Press "ENTER" and then press "UP" or "DOWN" to "Address" or "DMX Channel" and press "ENTER".

1) "XXX" will be showed in "Address", "XXX" means the Address 001-512. You can press "UP" or "DOWN"to select the address you desired.

2) "Channel [xx]" will be showed in "DMX Channels", "XX" means 5 kinds of DMX Channels Modes. You can press "UP" or "DOWN" to select the Channel Mode you desired.

DMX STATE-In this menu,you can choose the DMX signal you desired.

1. Press "ENTER" and then press "UP" or "DOWN" to "DMX STATE".

2. Press "ENTER" and you can choose "BLACKOUT" or "DMX HOLD"; "BLACKOUT" means cut off the DMX signal and "DMX HOLD" means connect DMX signal.

SLAVE MODE-In this menu, you can choose one light as the MASTER light and other lights in SLAVE Mode will run follow the MASTER light.

1. Press "ENTER" and then press "UP" or "DOWN" to "SLAVE Mode".

2. Press "ENTER" and "SLAVE" will be showed, then press "ENTER" to choose.

AUTO MODE-In this menu, you can choose your desired AUTO Mode and adjust the running speed.

1. Press "ENTER" and then press "UP" or "DOWN" to "AUTO MODE".

2. Press "ENTER" you can see 2 items as below:

1) SPEED - It provides "01-10" for you choose.

2) AUTO MODE - It provides "AUTO 1- AUTO 31" for you choose.

STATIC COLOR-In this menu, you can adjust the value of static color and strobe speed as you like.

1. Press "ENTER" button and then UP or DOWN button until "STATIC COLOR" is showed.

2. Press "ENTER" button, and there will be five options. Then, press ENTER to select the option and press UP or DOWN button to select the value you desire as follow:

1) RED - You can adjust the red brightness in this menu.

2) GREEN - You can adjust the green brightness in this menu.

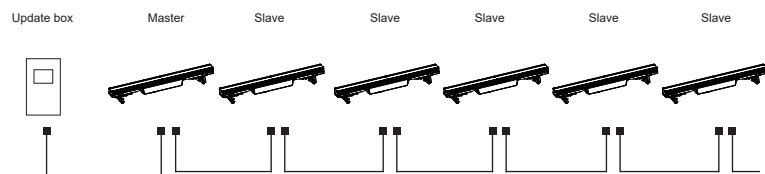
3) BLUE - You can adjust the blue brightness in this menu.

4) White - You can adjust the white brightness in this menu.

5) COLOR - You can select 51 static color in this menu.

6) STROBE - You can adjust the strobe speed in this menu.

Update software via DMX cable



First, set the first one light in Master mode, the other lights in Slave mode, then connect with DMX cable.

Second, connect the power for the update box, and choose the software, then the update box connects with the first one light (Master), the background will show grey color.

Third, press the ENTER button, and the display shows "wait", a few seconds, shows "loading" and changes to other color. It means uploading, a few minutes, upload success will be shown. All the programs edited in the Master light will be uploaded to the Slave lights.

DMX control mode

3 CHANNELS		
Channel	Value	Function
1	000 - 255	Flash intensity
2	000 - 255	Flash Duration
3	000 - 255	Flash Rate

10 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Flash intensity
3	000 - 255	Flash Duration
4	000 - 255	Flash Rate
5	000 - 255	Color macro 0-51
6	000 - 255	Frost Glasses
7	000 - 255	Red
8	000 - 255	Green
9	000 - 255	Blue
10	000 - 255	White section

22 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Flash intensity
3	000 - 255	Flash Duration
4	000 - 255	Flash Rate
5	000 - 255	Color marco 0-51
6	000 - 255	Frost Glasses
7	000 - 255	Red 1-6
8	000 - 255	Green1-6
9	000 - 255	Blue1-6
10	000 - 255	Red 7-12
11	000 - 255	Green7-12
12	000 - 255	Blue7-12
13	000 - 255	White section 1-6
14	000 - 255	White section 7-12
15	000 - 255	Red 13-18
16	000 - 255	Green13-18
17	000 - 255	Blue13-18
18	000 - 255	Red 19-24
19	000 - 255	Green19-24
20	000 - 255	Blue19-24
21	000 - 255	auto 1-31
22	000 - 255	auto speed

RDM

RDM compliance:ANSI/ESTA E.120

Parameter ID		Command	Command	Command
DISC_UNIQUE_BRANCH		√		
DISC_MUTE		√		
DISC_UN_MUTE		√		
DEVICE_INFO				√
SUPPORTED_PARAMETERS				√
SOFTWARE_VERSION_LABEL				√
DMX_START_ADDRESS			√	√
IDENTIFY_DEVICE			√	√
DEVICE_MODEL_DESCRIPTION				√
PARAMETER_DESCRIPTION				√
MANUFACTURER_LABEL				√
DEVICE_LABEL				√
FACTORY_DEFAULTS			√	√
BOOT_SOFTWARE_VERSION_ID				√
BOOT_SOFTWARE_VERSION_LABEL				√
DMX_PERSONALITY			√	√
DMX_PERSONALITY_DESCRIPTION				√
SLOT_INFO				√
SLOT_DESCRIPTION				√
SENSOR_DEFINITION				√
SENSOR_VALUE				√
DEVICE_HOURS				√
LAMP_HOURS				√
RESET_DEVICE	Hot reset-Factory reset		√	
	Cold reset-Restart		√	

LED Partition Map

RGB
W
RGB

10 CH

RGB 1		RGB 2	
White 1	White 2	White 3	White 4
RGB 3		RGB 4	

22 CH

RGB 1	RGB 2	RGB 3	RGB 4
White 1	White 2	White 3	White 4
RGB 5	RGB 6	RGB 7	RGB 8

36 CH

RGB 1	RGB 2	RGB 3	RGB 4	RGB 5	RGB 6
White 1	White 2	White 3	White 4	White 5	White 6
RGB 7	RGB 8	RGB 9	RGB 10	RGB 11	RGB 12

50 CH

RGB1	RGB2	RGB3	RGB4	RGB5	RGB6	RGB7	RGB8	RGB9	RGB10	RGB11	RGB12
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
RGB24	RGB23	RGB22	RGB21	RGB20	RGB19	RGB18	RGB17	RGB16	RGB15	RGB14	RGB13

92 CH

36 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Flash intensity
3	000 - 255	Flash Duration
4	000 - 255	Flash Rate
5	000 - 255	Color marco 0-51
6	000 - 255	Frost Glasses
7	000 - 255	Red 1-3
8	000 - 255	Green1-3
9	000 - 255	Blue1-3
10	000 - 255	Red 4-6
11	000 - 255	Green4-6
12	000 - 255	Blue4-6
13	000 - 255	Red 7-9
14	000 - 255	Green7-9
15	000 - 255	Blue7-9
16	000 - 255	Red 10-12
17	000 - 255	Green10-12
18	000 - 255	Blue10-12
19	000 - 255	White section 1-3
20	000 - 255	White section 4-6
21	000 - 255	White section 7-9
22	000 - 255	White section 10-12
23	000 - 255	Red 13-15
24	000 - 255	Green13-15
25	000 - 255	Blue13-15
26	000 - 255	Red 16-18
27	000 - 255	Green16-18
28	000 - 255	Blue16-18
29	000 - 255	Red 19-21
30	000 - 255	Green19-21
31	000 - 255	Blue19-21
32	000 - 255	Red 22-24
33	000 - 255	Green22-24
34	000 - 255	Blue22-24
35	000 - 255	auto 1-31
36	000 - 255	auto speed

50 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Flash intensity
3	000 - 255	Flash Duration
4	000 - 255	Flash Rate
5	000 - 255	Color marco 0-51
6	000 - 255	Frost Glasses
7	000 - 255	Red 1-2
8	000 - 255	Green1-2
9	000 - 255	Blue1-2
10	000 - 255	Red 3-4
11	000 - 255	Green3-4
12	000 - 255	Blue3-4
13	000 - 255	Red 5-6
14	000 - 255	Green5-6
15	000 - 255	Blue5-6
16	000 - 255	Red 5-6
17	000 - 255	Green7-8
18	000 - 255	Blue7-8
19	000 - 255	Red 9-10
20	000 - 255	Green9-10
21	000 - 255	Blue9-10
22	000 - 255	Red 11-12
23	000 - 255	Green11-12
24	000 - 255	Blue11-12
25	000 - 255	White section 1-2
26	000 - 255	White section 3-4
27	000 - 255	White section5-6
28	000 - 255	White section 7-8
29	000 - 255	White section 9-10
30	000 - 255	White section 11-12
31	000 - 255	Red 13-14
32	000 - 255	Green13-14
33	000 - 255	Blue13-14
34	000 - 255	Red 15-16
35	000 - 255	Green15-16
36	000 - 255	Blue15-16
37	000 - 255	Red 17-18
38	000 - 255	Green17-18
39	000 - 255	Blue17-18
40	000 - 255	Red 19-20

auto sheet			
0-7	NO Function	128-135	auto 16
8 - 15	auto 1	136-143	auto 17
16-23	auto 2	144-151	auto 18
24-31	auto 3	152-159	auto 19
32-39	auto 4	160-167	auto 20
40-47	auto 5	168-175	auto 21
48-55	auto 6	176-183	auto 22
56-63	auto 7	184-191	auto 23
64-71	auto 8	192-199	auto 24
72-79	auto 9	200-207	auto 25
80-87	auto 10	208-215	auto 26
88-95	auto 11	216-223	auto 27
96-103	auto 12	224-231	auto 28
104-111	auto 13	232-239	auto 29
112-119	auto 14	240-247	auto 30
120-127	auto 15	248-255	auto 31

color sheet			
0-4	NO Function	130-134	color 26
5 - 9	color 1	135-139	color 27
10 - 14	color 2	140-144	color 28
15-19	color 3	145-149	color 29
20-24	color 4	150-154	color 30
25-29	color 5	155-159	color 31
30-34	color 6	160-164	color 32
35-39	color 7	165-169	color 33
40-44	color 8	170-174	color 34
45-49	color 9	175-179	color 35
50-54	color 10	180-184	color 36
55-59	color 11	185-189	color 37
60-64	color 12	190-194	color 38
65-69	color 13	195-199	color 39
70-74	color 14	200-204	color 40
75-79	color 15	205-209	color 41
80-84	color 16	210-214	color 42
85-89	color 17	215-219	color 43
90-94	color 18	220-224	color 44
95-99	color 19	225-229	color 45
100-104	color 20	230-234	color 46
105-109	color 21	235-239	color 47
110-114	color 22	240-244	color 48
115-119	color 23	245-249	color 49
120-124	color 24	250-254	color 50
125-129	color 25	255	color 51

41	000 - 255	Green19-20
42	000 - 255	Blue19-20
43	000 - 255	Red 21-22
44	000 - 255	Green21-22
45	000 - 255	Blue21-22
46	000 - 255	Red 23-24
47	000 - 255	Green23-24
48	000 - 255	Blue23-24
49	000 - 255	auto 1-31
50	000 - 255	auto speed

92 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimmer
2	000 - 255	Flash intensity
3	000 - 255	Flash Duration
4	000 - 255	Flash Rate
5	000 - 255	Color marco 0-51
6	000 - 255	Frost Glasses
7	000 - 255	Red 1
8	000 - 255	Green1
9	000 - 255	Blue1
10	000 - 255	Red 2
11	000 - 255	Green2
12	000 - 255	Blue2
13	000 - 255	Red 3
14	000 - 255	Green3
15	000 - 255	Blue3
16	000 - 255	Red 4
17	000 - 255	Green4
18	000 - 255	Blue4
19	000 - 255	Red 5
20	000 - 255	Green5
21	000 - 255	Blue5
22	000 - 255	Red 6
23	000 - 255	Green6
24	000 - 255	Blue6
25	000 - 255	Red 7

26	000 - 255	Green7
27	000 - 255	Blue7
28	000 - 255	Red 8
29	000 - 255	Green8
30	000 - 255	Blue8
31	000 - 255	Red 9
32	000 - 255	Green9
33	000 - 255	Blue9
34	000 - 255	Red 10
35	000 - 255	Green10
36	000 - 255	Blue10
37	000 - 255	Red 11
38	000 - 255	Green11
39	000 - 255	Blue11
40	000 - 255	Red 12
41	000 - 255	Green12
42	000 - 255	Blue12
43	000 - 255	Red13
44	000 - 255	Green13
45	000 - 255	Blue13
46	000 - 255	Red 14
47	000 - 255	Green14
48	000 - 255	Blue14
49	000 - 255	Red 15
50	000 - 255	Green15
51	000 - 255	Blue15
52	000 - 255	Red 16
53	000 - 255	Green16
54	000 - 255	Blue16
55	000 - 255	Red 17
56	000 - 255	Green17
57	000 - 255	Blue17
58	000 - 255	Red 18
59	000 - 255	Green18
60	000 - 255	Blue18
61	000 - 255	Red 19
62	000 - 255	Green19
63	000 - 255	Blue19
64	000 - 255	Red 20
65	000 - 255	Green20
66	000 - 255	Blue20
67	000 - 255	Red 21

68	000 - 255	Green21
69	000 - 255	Blue21
70	000 - 255	Red 22
71	000 - 255	Green22
72	000 - 255	Blue22
73	000 - 255	Red 23
74	000 - 255	Green23
75	000 - 255	Blue23
76	000 - 255	Red 24
77	000 - 255	Green24
78	000 - 255	Blue24
79	000 - 255	White section 1
80	000 - 255	White section 2
81	000 - 255	White section3
82	000 - 255	White section 4
83	000 - 255	White section 5
84	000 - 255	White section 6
85	000 - 255	White section 7
86	000 - 255	White section 8
87	000 - 255	White section9
88	000 - 255	White section 10
89	000 - 255	White section 11
90	000 - 255	White section 12
91	000 - 255	auto 1-31
92	000 - 255	auto speed