VARI*LITE

QUICK START GUIDE

88-105-7290-00 REV 00 MAY 5 2022

VL800 BEAMLINE

OVERVIEW

This document provides basic setup instructions and safety warnings for the following product(s):

VL800 Beamline, black **88-105-7290-00**

INCLUDED ITEMS

VL800 BEAMLINE

QUICK START GUIDE

POWER CONNECTOR

WARRANTY CARD

INSTALLATION AND SETUP

CONNECTING POWER

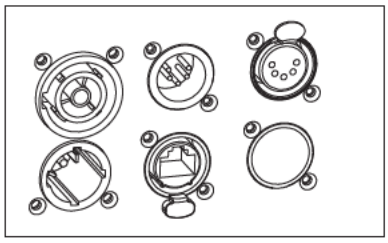
This fixture requires standard AC power distribution from 200-240VAC 50/60 Hz. Current required depends on the AC supply voltage and product model.

NOTE: The mating Neutrik® powerCON® True1 connector is supplied; however, you will need to purchase or construct a cable appropriate for your application.

Depending on the application, the luminaire's AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code reference

WIRE*	CONNECTION
Green/yellow	AC ground
Blue	AC neutral
Brown	AC line

* International (Harmonized) Standard



WARNING: DO NOT connect to three phase service in countries with 240V power.

Single-phase power at 240V RMS:

CONNECTION	PIN
AC neutral	X
AC line	Y
Ground (earth)	G

Three-phase power at 200V RMS:

CONNECTION	PIN
Phase 1	X
Phase 2	Y
Ground (earth)	G

CURRENT VERSUS VOLTAGE

TABLE 1 provides the luminaire's current draw at specific voltages. Total luminaire current is calculated with the lamp on and all motors sequencing.

TABLE 1.CURRENT VS. VOLTAGE (230W LED)

AC VOLTAGE AT 60HZ	TOTAL LUMINAIRE CURRENT (MOTOR + LAMP CURRENT)
200V	1.4A
210V	1.3A
220V	1.25A
230V	1.2A
240V	1.15A

CONNECTING DATA

A maximum of 32 luminaires may be connected in any one DMX data link.

NOTE: This maximum limit applies to the luminaire "daisy chain" only. Your system or console may require fewer luminaires on a single data link path. Consult your console documentation for more information.

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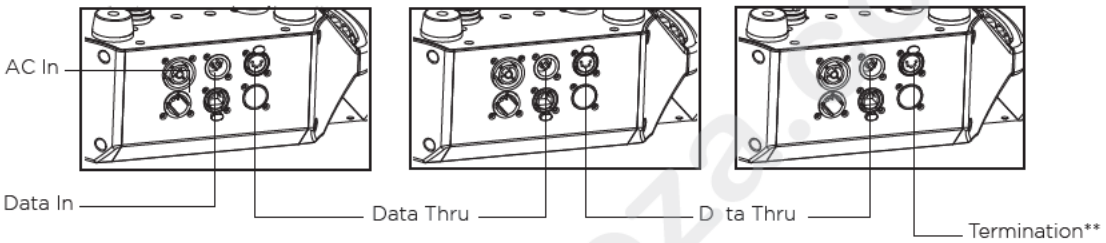
To connect power and data:

Step 1. Connect data cable from console to first luminaire in chain at DATA IN connector.

Step 2. If required, connect additional data cables from DATA THRU connectors to DATA IN connectors of remaining luminaires in link.

Step 3. At last luminaire in link, install male termination connector at DATA THRU connector. (Luminaires and other devices on the same DMX chain may not function p operly without termination.)



VL800 BeamLine Lum aire Chan el Requirements*

DMX512 Channels	De c tion	Menu Display
23 Channels	16-Bi Mode *(default)*	16

*As set by the luminaire's me u sy em.

**DMX terminator required for last fixture on DMX line.

Step 4. Connect AC Input Cable connecto to power input source.

Step 5. Dress AC input and data cab es and secure them so that they will not interfere with luminaire head and yoke movement

FLOOR MOUNTING

All luminaires included in thi ma ual are designed to sit directly on its base in a floor installation application. When used in his t pe of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.

HANGING THE F XTURE

The VL800 Beamlin can be hung horizontally or vertically from any structure designed to work with the type of load created by this moving luminaire. Two mounting truss hooks or other mounting hardware are required. Many compatible truss hooks are available from different manufacturers for your particular needs. A m nim m of two hooks per luminaire is required. If mounting method does not use truss hooks, two attachment points, per luminaire, are required.

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Install mounting hardware and brackets:

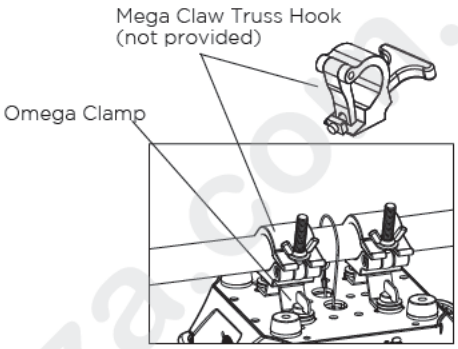
Step 1. Install truss hooks on two provided truss hook brackets as required as shown.

NOTE: Various types of truss hooks can be used. The Mega Claw truss hook, as well as many other standard hooks, can be ordered separately.

Step 2. Determine required configuration of bracket installation. Brackets may be installed in many different orientations as shown.

Step 3. While pulling up on locking mechanism release, fit keyed holes onto raised mounting buttons at bottom of enclosure. Slide forward and release locking mechanism to lock in place. Ensure brackets are locked securely.

WARNING: Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the fixture.



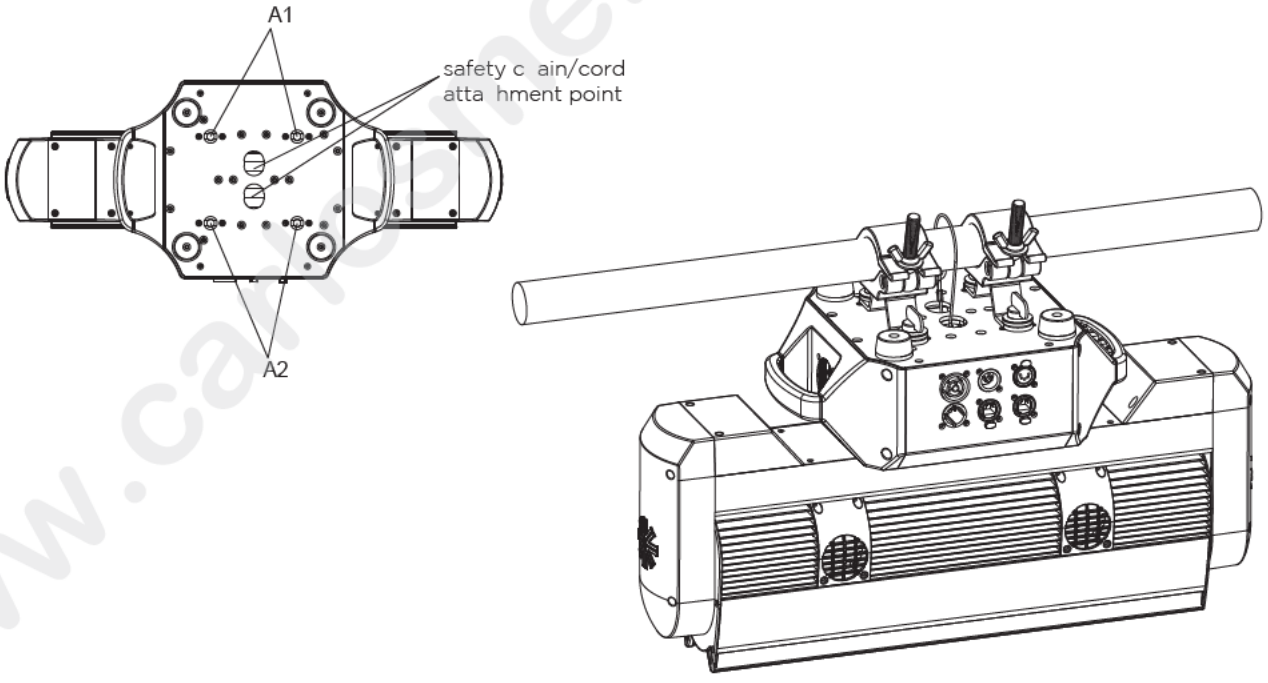


FIGURE 1. INSTALLING BRACKETS ON LUMINAIRE ENCLOSURE

VL800 BEAMLINE

Installing in Truss:

Step 1. Using two people, lift luminaire into mounting position.

Step 2. Secure in place with truss hook. Ensure truss hook hardware that locks hook in place (e.g. wing bolt) is properly tightened and that luminaire is fully supported.

Step 3. Attach safety cable (as required) as follows:

a. Loop safety cable at least once around safety cable anchor point rod.

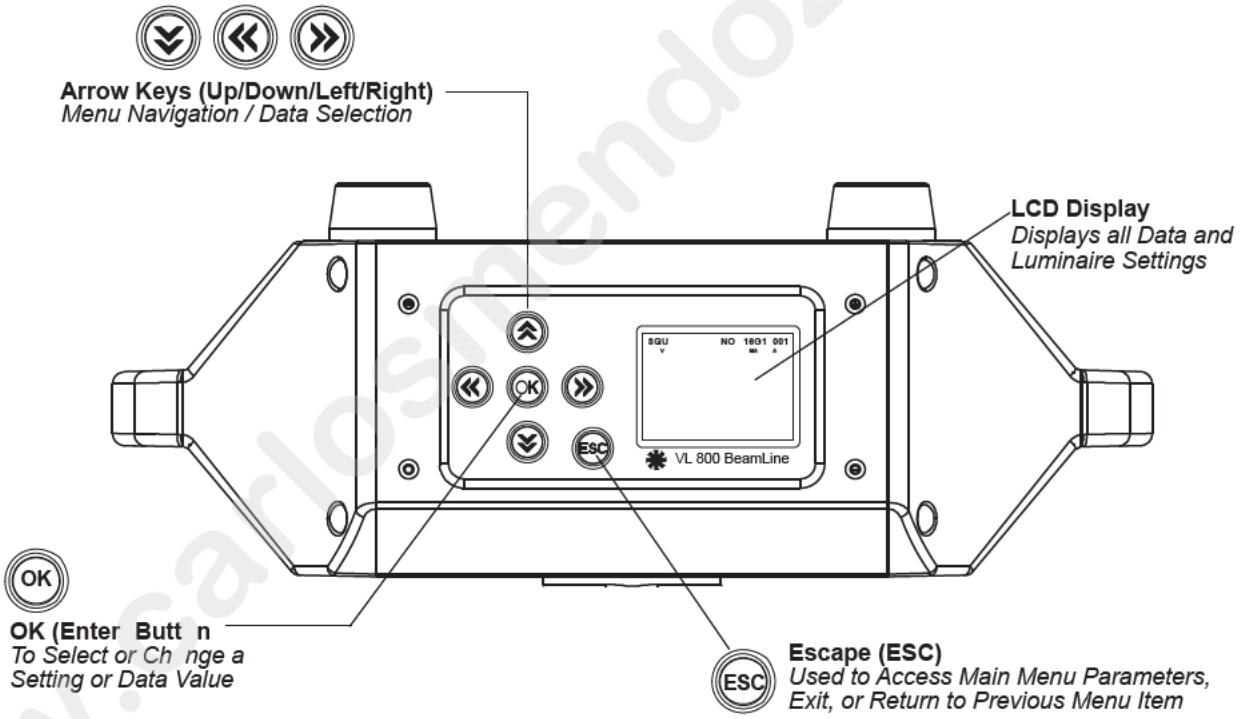
b. Loop safety cable at least once around truss/pipe and secure around pip

Step 4. Make sure tilt and pan locks are disengaged so luminaire moves freely.

Step 5. Connect power and data cables.

MENU CONTROLS

The menu system is controlled by an OK (Enter), ESC (Escape), and four Arrow (◄▲▼►) buttons.



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QUICK REFERENCE DMX MAPS

The short form DMX maps are available on the following pages. Visit the product page for full DMX maps.

TABLE 2. 16-BIT, 1 GROUP MODE (DEFAULT)

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan Control
6	Tilt Control
7, 8	Intensity
9	Color Preset
10	Strobe Rate
11	Strobe Duration

DMX CHANNEL	PARAMET R
12	Intensity Timing
13	Color Timin
14	Foc s Timing
15	C ntrol
16, 17	Re
18 19	Green
20, 2	Blue
22 23	White

TABLE 3 16-BIT, 3 GROUP MODE

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan C ntro
6	Tilt Cont ol
7, 8	Intensity
9	Color Pre-Set
10	Strobe Rate
11	Strobe Duration

DMX CHANNEL	PARAMETER
12	Intensity Timing
13	Color Timing
14	Focus Timing
15	Control
16, 17	Red (Group 1)
18, 19	Green (Group 1)
20, 21	Blue (Group 1)
22, 23	White (Group 1)

DMX CHANNEL	PARAMETER
24, 25	Red (Group 2)
26, 27	Green (Group 2)
28, 29	Blue (Group 2)
30, 31	White (Group 2)
32, 33	Red (Group 3)
34, 35	Green (Group 3)
36, 37	Blue (Group 3)
38, 39	White (Group 3)

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TABLE 4. 16-BIT, 12 GROUP MODE

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan Control
6	Tilt Control
7, 8	Intensity
9	Color Pre-Set
10	Strobe Rate
11	Strobe Duration
12	Intensity Timing
13	Color Timing
14	Focus Timing
15	Control
16, 17	Red (Group 1)
18, 19	Green (Group 1)
20, 21	Blue (Group 1)
22, 23	White (Group 1)
24, 25	Red (Group 2)
26, 27	Green (Group 2)
28, 29	Blue (Group 2)
30, 31	White (Group 2)
32, 33	Red (Group 3)
34, 35	Green (Group 3)
36, 37	Blue (Grou 3)
38, 39	White (Group 3)
40, 41	Re Gro p 4)
42, 43	Green (Group 4)
44., 45	Blue (Group 4)
46, 47	White (Group 4)
48, 49	Red (Group 5)
50 51	Green (Group 5)
52, 53	Blue (Group 5)

DMX CHANNEL	PARAMETER
54, 55	White (Group 5)
56, 57	Red (Group 6)
58, 59	Green (Group 6)
60, 61	Blue (Group 6)
62, 63	White (Group 6)
64, 65	Red (Group 7)
66, 67	Green (Group 7)
68, 69	Blue (Group
70, 71	White (Gro p 7)
72, 73	Red (G oup 8)
74, 75	Gre n (roup 8)
76, 77	Blue (Group 8)
78, 79	White (Group 8)
80, 8	Red (Group 9)
82, 83	Green (Group 9)
84, 85	Blue (Group 9)
86, 87	White (Group 9)
88, 89	Red (Group 10)
90, 91	Green (Group 10)
92, 93	Blue (Group 10)
94, 95	White (Group 10)
96, 97	Red (Group 11)
98, 99	Green (Group 11)
100, 101	Blue (Group 11)
102, 103	White (Group 11)
104, 105	Red (Group 12)
106, 107	Green (Group 12)
108.109	Blue (Group 12)
110, 111	White (Group 12)

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TABLE 5. 8-BIT, 1 GROUP MODE

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan Control
6	Tilt Control
7	Master Intensity, High
8	Color Preset
9	Strobe Rate
10	Strobe Duration

DMX CHANNEL	PARAMETER
11	Intensity Timing
12	Color Timing
13	Focus Timing
14	Control
15	Red
16	Green
17	Blue
18	White

TABLE 6. 8-BIT, 3 GROUP MODE

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan Control
6	Tilt Control
7	Master Intensity, High
8	Color Preset
9	Strobe Rate
10	Strobe Duration

DMX CHANNEL	PARAMETER
11	Intensity Timing
12	C or T ming
13	Focu Timing
14	Control
15	Red (Group 1)
16	Green (Group 1)
17	Blue (Group 1)
18	White (Group 1)

DMX CHANNEL	PARAMETER
19	Red (Group 2)
20	Green (Group 2)
21	Blue (Group 2)
22	White (Group 2)
23	Red (Group 3)
24	Green (Group 3)
25	Blue (Group 3)
26	White (Group 3)

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TABLE 7. 8-BIT, 12 GROUP MODE

DMX CHANNEL	PARAMETER
1, 2	Pan
3, 4	Tilt
5	Pan Control
6	Tilt Control
7	Master Intensity, High
8	Color Preset
9	Strobe Rate
10	Strobe Duration
11	Intensity Timing
12	Color Timing
13	Focus Timing
14	Control
15	Red (Group 1)
16	Green (Group 1)
17	Blue (Group 1)
18	White (Group 1)
19	Red (Group 2)
20	Green (Group 2)
21	Blue (Group 2)
22	White (Group 2)
23	Red (Group 3)
24	Green (Group 3)
25	Blue (Grou 3)
26	White (Group 3)
27	Re Gro p 4)
28	Green (Group 4)
29	Blue (Group 4)
30	White (Group 4)
31	Red (Group 5)
2	Green (Group 5)
33	Blue (Group 5)

DMX CHANNEL	PARAMETER
34	White (Group 5)
35	Red (Group 6)
36	Green (Group 6)
37	Blue (Group 6)
38	White (Group 6)
39	Red (Group 7)
40	Green (Group 7)
41	Blue (Group
42	White (Gro p 7)
43	Red (G oup 8)
44	Gre n (roup 8)
45	Blue (Group 8)
46	White (Group 8)
47	Red (Group 9)
48	Green (Group 9)
49	Blue (Group 9)
50	White (Group 9)
51	Red (Group 10)
52	Green (Group 10)
53	Blue (Group 10)
54	White (Group 10)
55	Red (Group 11)
56	Green (Group 11)
57	Blue (Group 11)
58	White (Group 11)
59	Red (Group 12)
60	Green (Group 12)
61	Blue (Group 12)
62	White (Group 12)

WARNING I not recommended to power any Vari-Lite fixture from a dimmer - even in 'NONDIM' mode. Dimmer and non-dim mod les are not suitable sources of power because their output modifies the AC wave form. This may work for a short time, but will eventually result in power problems, operating errors, and/or fixture failure and may void the warranty.

WARNING: It is the responsibility of the user to adequately protect supply source with a correct size and type circuit breaker and not overload circuits.

WARNING: This unit has a battery. Replace only with the correct type of battery. Failure to use the correct battery could cause serious damage to the fixture. Dispose of used batteries appropriately.

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SAFETY WARNINGS AND NOTICES

Read this user manual in full before attempting to install, operate or maintain the fixture to which it relates. This user manual is intended to provide general guidance to such suitably qualified personnel. Installation and operation of the fixture are to be performed by qualified personnel only.

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- For indoor, dry location use only. Do not use outdoors unless fixture is suitably IP rated.
- Use safety tether when mounting.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Not for residential use. Do not use this equipment for other than intended use.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Install only in locations with adequate ventilation. Ensure sure that ventilation slots are not blocked.
- Ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
- The fixture must be earthed/grounded to the appropriate conductor.
- Do not operate fixture outside the specified ambient temperature range.
- Do not connect the fixture to any dimmer pack.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- Refer service to qualified personnel. This fixture contains no user serviceable parts.
- Prior to first use, carefully inspect fixture to ensure no damage has occurred during shipping.
- Materials used in the manufacturing process can cause strong odors when the product is new. These odors dissipate over time.Prior to each use, carefully inspect power cables and replace any damaged cables.
- Exterior surfaces of the luminaire will be hot during operation. Take appropriate precautions.
- Continuous use of the fixture may shorten the lifespan. Power down the fixture when not in use.
- Do not cycle power on and off repeatedly. Disconnect mains power if the fixture is not used for an extended period.
- Clean fixtures regularly, particularly when working in a dusty environment.
- Never touch power cables or wires while the fixture is powered on.
- Avoid entangling power wires with other cables.
- In the event of a serious operating problem, immediately discontinue using the fixture.
- It is hazardous to operate luminaires without lens or shield. Shields, lenses, or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example, by cracks or deep scratches.
- Original packing materials can be reused for transporting the fixture.
- Do not look directly at the LED light beam while the fixture is on.
- This is a Class A product. In a domestic environment this product may cause radio interference, in which case, the user may be required to take adequate measures.
- The light source contained in this luminaire shall only be replaced by the manufacturer or service agent or similarly qualified person.

SAVE THESE INSTRUCTIONS.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

COMPLIANCE NOTICE

FCC DECLARATION OF CONFORMITY

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with Vari-Lite Strand system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

FCC 47CFR 15B clA*CEI

Issued:2009/10/01 Title 47 CFR Part 15 Subpart B Unintentional Radiators Class A

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

EU DECLARATION OF CONFORMITY

We, Vari-Lite LLC., 10911 Petal Street, Dallas, Texas 75238, declare under our responsibility for the products contained herein are in conformity with the essential requirements of the following European Directives and harmonized standards:

Low Voltage Director (LVD), 2006/95/EC

EN 60589-2-17:1984+A1:1987+A2:1990 used in conjunction with 60598-1:2008/A11:2009

CUSTOMER SERVICE

If you have any questions regarding this product, please contact Customer Service by phone at +1 214-647-7880 or by email at entertainment.service@signify.com.

RGBW 16bIT MODE

DMX CHANNEL	(G1) 1 Group Mode (Default Mode)	(G3) 3 Group Mode	(G12) 12 Group Mode
1	Pan High	Pan High	Pan High
2	Pan Low	Pan Low	Pan Low
3	Tilt High	Tilt High	Tilt High
4	Tilt Low	Tilt Low	Tilt Low
5	Pan Control	Pan Control	Pan Control
6	Tilt Control	Tilt Control	Tilt Control
7	Intensity High	Intensity High	Intensity High
8	Intensity Low	Intensity Low	Intensity Low
9	Color Pre-set	Color Pre-set	Color Pre-set
10	Strobe Rate	Strobe Rate	Strobe Rate
11	Strobe Duration	Strobe Duration	Strobe Duration
12	Intensity Timing	Intensity Timing	Intensity Timing
13	Color Timing	Color Timing	Color Timing
14	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)
15	Control	Control	Control
16	Red - High	Red - High - Group 1	Red - High - 1
17	Red - Low	Red - Low - Group 1	Red - Low - 1
18	Green - High	Green - High - Group 1	Green - High - 1
19	Green - Low	Green - Low - Group 1	Green - Low - 1
20	Blue- High	Blue- High - Group 1	Blue- High - 1
21	Blue - Low	Blue - Low - Group 1	Blue - Low - 1
22	White - High	White - High - Group 1	White - High - 1
23	White - Low	White - Low - Group 1	White - Low - 1
24		Red - High - Group 2	Red - High - 2
25		Red - Low - Group 2	Red - Low - 2
26		Green - High - Group 2	Green - High - 2
27		Green - Low - Group 2	Green - Low - 2
28		Blue- High - Group 2	Blue- High - 2
29		Blue - Low - Group 2	Blue - Low - 2
30		White - High - Group 2	White - High - 2
31		White - Low - Group 2	White - Low - 2
32		Red - High - Group 3	Red - High - 3
33		Red - Low - Group 3	Red - Low - 3
34		Green - High - Group 3	Green - High - 3
35		Green - Low - Group 3	G w - 3
36		Blue- High - Group 3	Blue- Hi 3
37		Blue - Low - Group 3	Blu - Lo - 3
38		White - High - Group 3	W e - gh - 3
39		White - Low - Group 3	Wh Low - 3
40			R d - High - 4
41			ed - Low - 4
42			Green - High - 4
43			Green - Low - 4
44			Blue- High - 4
45			Blue - Low - 4
46			White - High - 4
47			White - Low - 4
48			Red - High - 5
49			Red - Low - 5
50			Green - High - 5
51			Green - Low - 5
52			Blue- High - 5
53			Blue - Low - 5
54			White - High - 5
55			White - Low - 5
56			Red - High - 6
57			Red - Low - 6
58			Green - High - 6
59			Green - Low - 6
60			Blue- High - 6
61			Blue - Low - 6
62			White - High - 6
63			White - Low - 6
64			Red - High - 7
65			Red - Low - 7
66			Green - High - 7
67			Green - Low - 7
68			Blue- High - 7
69			Blue - Low - 7
70			White - High - 7
71			White - Low - 7
72			Red - High - 8
73			Red - Low - 8
74			Green - High - 8
75			Green - Low - 8
76			Blue- High - 8
77			Blue - Low - 8
78			White - High - 8
79			White - Low - 8
80			Red - High - 9
81			Red - Low - 9
8			Green - High - 9
83			Green - Low - 9
84			Blue- High - 9
85			Blue - Low - 9
86			White - High - 9
87			White - Low - 9
88			Red - High - 10
89			Red - Low - 10
90			Green - High - 10
91			Green - Low - 10
92			Blue- High - 10
93			Blue - Low - 10
94			White - High - 10
95			White - Low - 10
96			Red - High - 11
97			Red - Low - 11
98			Green - High - 11
99			Green - Low - 11
100			Blue- High - 11
101			Blue - Low - 11
102			White - High - 11
103			White - Low - 11
104			Red - High - 12
105			Red - Low - 12
106			Green - High - 12
107			Green - Low - 12
108			Blue- High - 12
109			Blue - Low - 12
110			White - High - 12
111			White - High - 13

RGBW 8bIT MODE			
DMX CHANNEL	**(G1) 1 Group Mode**	**(G3) 3 Group Mode**	**(G12) 12 Group Mode**
1	Pan High	Pan High	Pan High
2	Pan Low	Pan Low	Pan Low
3	Tilt High	Tilt High	Tilt High
4	Tilt Low	Tilt Low	Tilt Low
5	Pan Control	Pan Control	Pan Control
6	Tilt Control	Tilt Control	Tilt Control
7	Intensity	Intensity	Intensity
8	Color Pre-set	Color Pre-set	Color Pre-set
9	Strobe Rate	Strobe Rate	Strobe Rate
10	Strobe Duration	Strobe Duration	Strobe Duration
11	Intensity Timing	Intensity Timing	Intensity Timing
12	Color Timing	Color Timing	Color Timing
13	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)
14	Control	Control	Control
15	Red -	Red - Group 1	Red - 1
16	Green -	Green - Group 1	Green - 1
17	Blue-	Blue - Group 1	Blue - 1
18	White -	White - Group 1	White - 1
19		Red - Group 2	Red - 2
20		Green - Group 2	Green - 2
21		Blue - Group 2	Blue - 2
22		White - Group 2	White - 2
23		Red - Group 3	Red - 3
24		Green - Group 3	Green - 3
25		Blue - Group 3	Blue- 3
26		White - Group 3	White - 3
27			Red - 4
28			Green - 4
29			Blue - 4
30			White - 4
31			Red - 5
32			Green - 5
33			Blue - 5
34			White - 5
35			R
36			Gree
37			Blu - 6
38			W e -
39			Re
40			G een - 7
41			ue - 7
42			White - 7
43			Red - 8
44			Green - 8
45			Blue - 8
46			White - 8
47			Red - 9
48			Green - 9
49			Blue - 9
50			White - 9
51			Red- 10
52			Green - 10
53			Blue - 10
54			White - 10
55			Red - 11
56			Green - 11
57			Blue - 11
58			White - 11
59			Red - 12
60			Green - 12
61			Blue - 12
62			White - 12