

TABLE 1. 16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
1	Intensity Low	0	0-65535	16-bit Dimming
2	Intensity High			
3	Pan High	32767	0-65535	Fixture Pan - 540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	Fixture Tilt - 270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	16-bit Focus Control
8	Focus Low			
9	Zoom High	32767	0-65535	16-bit Zoom control
10	Zoom Low			
11	Cyan	0	0 - 255	Control of cyan color mechanism.
12	Yellow	0	0 - 255	Control of yellow color mechanism.
13	Magenta	0	0 - 255	Control of Magenta color mechanism.
14	Color Wheel	0	0 - 255 0 22-26 45-49 69-73 92-96 115-119 138-142 162-166 185-189 208-212 231-235 236-355	8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centred at 0) Color 1 RED Centre 25 Color 2 BLUE Centre 47 Color 3 YELLOW Centre 71 Color 4 KELLY GREEN Centre 94 Color 5 MAGENTA Centre 94 Color 6 CTO Centre 140 Color 7 LAVENDER Centre 164 Color 8 GREEN Centre 187 Color 9 AMBER Centre 210 Color 10 CONGO BLUE Centre 233 Open Centre @ 225
15	Color Wheel Control	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 56 57 - 87 88 - 255	Used as a control channel for different movement options of Color Wheel Channel 14 Linear Movement using shortest (quickest) path. Linear Movement using normal (longest) path. Wheel Spin CW Forward Wheel Spin STOP Wheel Spin CCW Reverse Color Shake Shortest Path (Slow to Fast) Color Shake Normal Path (Slow to Fast) Reserved Values

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DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
16	Gobo Wheel 1 (aperture wheel Fixed)	0	0 - 255	8-bit control of Gobo Wheel 1. See Channel 17 for control options.
			0 - 5	Open
			6 - 10	Aperture hole EXTRA SMALL
			11 - 15	Aperture hole SMALL
			16 - 20	Aperture hole MEDIUM
			21 - 25	Aperture hole LARGE
			26 - 30	Aperture HORIZONTAL BAR
			31 - 35	Aperture HORIZONTAL SLITS
			36 - 40	Aperture 3 DOT SPLIT
			41 - 45	Aperture SPLIT CONE
			46 - 50	Aperture PEACE
			51 - 55	Aperture BAR BREAK
			56 - 60	Aperture VERTICAL SLITS
			61 - 65	Aperture CLOVER
			66 - 225	Reserved
17	Gobo Wheel 1 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 Channel 16.
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Shortest Path (Slow to Fast)
			121 - 150	Gobo Shake Normal Path (Slow to Fast)
			151 - 180	Reserved Values
			181 - 210	Reserved Values
			211 - 255	Reserved Values
18	Gobo Wheel 2	0	0 - 255	8-bit control of Gobo Wheel 2. See Channel 21 for control options.
			0 - 5	Open - No Gobo
			6 - 10	Gobo 1 Index CIRCLE SPACE VL10
			11 - 15	Gobo 2 Index DOUBLE 3 HOLE VL10
			16 - 20	Gobo 3 Index PSYCLONE VL10
			21 - 25	Gobo 4 Index CROSSED BAR VL10
			26 - 30	Gobo 5 Index RAY GEAR VL10
			31 - 35	Gobo 6 Index PUNCHCARD VL10
			36 - 40	Gobo 7 Index SHOCK BREAKUP VL10
			41 - 45	Gobo 8 Index ROOS OVAL VL10
			46 - 50	Open - No Gobo
			51 - 55	Gobo 1 Rotate CIRCLE SPACE VL10
			56 - 60	Gobo 2 Rotate DOUBLE 3 HOLE VL10
			61 - 65	Gobo 3 Rotate PSYCLONE VL10
			66 - 70	Gobo 4 Rotate CROSSED BAR VL10
			71 - 75	Gobo 5 Rotate RAY GEAR VL10
			76 - 80	Gobo 6 Rotate PUNCHCARD VL10
			81 - 85	Gobo 7 Rotate SHOCK BREAKUP VL10
			86 - 90	Gobo 8 Rotate ROOS OVAL VL10
			91 - 95	Open - No Gobo

TABLE 1. 16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
18	Gobo Wheel 2 continued		96 - 100	Gobo 1 MegaStep CIRCLE SPACE VL10
			101 - 105	Gobo 2 MegaStep DOUBLE 3 HOLE VL10
			106 - 110	Gobo 3 MegaStep PSYCLONE VL10
			111 - 115	Gobo 4 MegaStep CROSSED BAR VL10
			116 - 120	Gobo 5 MegaStep RAY GEAR VL10
			121 - 125	Gobo 6 MegaStep PUNCHCARD VL10
			125 - 130	Gobo 7 MegaStep SHOCK BREAKUP VL10
			131 - 135	Gobo 8 MegaStep ROOS OVAL VL10
			136 - 225	Reserved
19	Gobo 2 Rot/ Index High Byte	32767	0 - 65535	16-bit control of index / rotation of gobo wheel 2 channel 18.
			0 - 32756	Rotate Slow to Fast <<<
20	Gobo 2 Rot/ Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
21	Gobo Wheel 2 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 Channel 17.
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast)
			121 - 150	Gobo Shake Normal Path (Slow to Fast)
			151 - 180	Gobo Twist Shortest Path (Slow to Fast)
			181 - 210	Gobo Twist Normal Path (Slow to Fast)
			211 - 255	Reserved Values
22	VLFX Wheel (Gobo Wheel 3)	0	0-255	8-bit control of VLFX Wheel (Gobo Wheel 3) See Channel 25 for control options.
			0 - 5	Open
			6 - 10	Animation Wheel 1 Index DICHROFUSION
			11 - 15	Animation Wheel 2 Index CONCURRENT
			16 - 20	Animation Wheel 3 Index WICKEDWAVES
			21 - 25	Animation Wheel 4 Index CONCETRIC
			26 - 30	Animation Wheel 5 Index ON THE ROCKS
			31 - 35	Open
			36 - 40	Animation Wheel 1 Rotation DICHROFUSION
			41 - 45	Animation Wheel 2 Rotation CONCURRENT
			46 - 50	Animation Wheel 3 Rotation WICKEDWAVES
			51 - 55	Animation Wheel 4 Rotation CONCETRIC
			56 - 60	Animation Wheel 5 Rotation ON THE ROCKS
			61 - 65	Open
			66 - 70	Animation Wheel 1 Megastep DICHROFUSION
			71 - 75	Animation Wheel 2 Megastep CONCURRENT
			76 - 80	Animation Wheel 3 Megastep WICKEDWAVES
			81 - 85	Animation Wheel 4 Megastep CONCETRIC
			86 - 90	Animation Wheel 5 Megastep ON THE ROCKS
			91 - 255	Reserved

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DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
23	VLFX Wheel (Gobo Wheel 3) High Byte	32767	0 - 65535	Index/ Rotation (VLFX wheel)
24	VLFX Wheel (Gobo Wheel 3) Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Slow to Fast <<< Rotation STOP Rotate Slow to Fast >>>
25	VLFX Wheel (Gobo Wheel 3) Control		0 - 255 2 - 2 0 - 5 6 - 10 11 - 20 21 - 50 51 - 60 61 - 90 91 - 120 121 - 150 151 - 180 181 - 210 211 - 255	Used as a control channel for different movement options for Gobo Wheel VLFX Wheel Gobo Wheel 3 - Channel 22. Gobo Selection using shortest (quickest) path. Gobo Selection using normal (longest) path. Reserved Values Reserved Values Reserved Values Reserved Values Gobo Shake Quickest Path (Slow to Fast) Gobo Shake Normal Path (Slow to Fast) Gobo Twist Shortest Path (Slow to Fast) Gobo Twist Normal Path (Slow to Fast) Reserved Values
26	Prism 1 Triangular Prism	0 - 255	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
27	Prism 1 Index/ Rot High Byte	32767	0-65535	16-bit control of prism rotation and index
28	Prism 1 Index/ Rot Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Slow to Fast <<< Rotation STOP Rotate Slow to Fast >>>
29	Prism 2 Triangular Prism	0 - 255	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
30	Prism 2 Index/ Rot High Byte	32767	0-65535 0 - 32756	16-bit control of prism rotation and index. Rotate Fast to Slow <<<
31	Prism 2 Index/ Rot Low Byte		32757 - 32780 32781 - 65535	Rotation STOP Rotate Slow to Fast >>>
32	Frost 1	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
33	Wash Mode (Frost 2)	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
34	Strobe Speed	0	0 - 255	Controls strobe rate from slowest (DMX 0) to fastest (DMX 255)

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DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
35	Strobe Control	5	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 255	Control Channel for strobing functions. Open* Closed Normal Strobe Random Strobe Random Sync Reserved Values
36	Focus Timing	255	0 - 255	Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel Chart in User Manual
37	Optics Timing	255	0 - 255	Adjustment of fixture timing to control lensing mechanisms. See Timing Channel Chart in User Manual
38	Color Timing	255	0 - 255	Adjustment of fixture timing to control color mechanisms. See Timing Channel Chart in User Manual
39	Beam Timing	255	0 - 255	Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel Chart in User Manual
40	Gobo Timing	255	0 - 255	Adjustment of fixture timing to control gobo mechanisms. See Timing Channel Chart in User Manual
41	Luminaire Control	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 30 31 - 35 36 - 40 41 - 45 46 - 50 51 - 55 56 - 60 61 - 65 66 - 70 71 - 75 76 - 80 81 - 85 86 - 90 91 - 95 96 - 100 101 - 105 111 - 115 116 - 120 121 - 125 126 - 225 126 - 130 131-135 136-255	"Control Channel used for full fixture settings Idle (Default) Full Luminaire ReCal Lamp On Lamp Off Fixture shutdown Display-Menu On Display-Menu Off ReCal Position ReCal Color ReCal Gobo ReCal Beam ReCal Optics Reserved (Future use) Reset Fixture to Defaults "Full Luminaire Reboot This command will douse lamp and reset all processors in fixture "Fixture Status On/Off. This command will enable to display to show fixture status for 5 min. After this time Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	Fixture Pan - 540° Total Pan Rotation Range
4	Pan Low			
5	Tilt High	32767	0-65535	Fixture Tilt - 270° Total Tilt Range
6	Tilt Low			
7	Focus High	32767	0-65535	16-bit Focus Control
8	Focus Low			
9	Zoom High	32767	0-65535	16-bit Zoom control
10	Zoom Low			
11	Cyan	0	0 - 255	Control of cyan color mechanism
12	Yellow	0	0 - 255	Control of yellow color mechanism
13	Magenta	0	0 - 255	Control of magenta color mechanism
14	Color Wheel	0	0 - 255	8-bit control of Color Wheel (spin speed slow to fast from control channel)
			0	OPEN
			9	Color 1 RED
			18	Color 2 BLUE
			27	Color 3 YELLOW
			37	Color 4 KELLY GREEN
			46	Color 5 MAGENTA
			55	Color 6 CTO
			64	Color 7 LAVENDER
			73	Color 8 GREEN
			82	Color 9 AMBER
			91	Color 10 CONGO BLUE
			101 - 110	Open
			111 - 115	Color 1 RED Center 113
			116 - 120	Color 2 BLUE Center 118
			121 - 125	Color 3 YELLOW Center 123
			126 - 130	Color 4 KELLY GREEN Center 128
			131 - 135	Color 5 MAGENTA Center 133
			136 - 140	Color 6 CTO Center 138
			141 - 145	Color 7 LAVENDER Center 143
			146 - 150	Color 8 GREEN Center 148
			151 - 155	Color 9 AMBER Center 153
			156 - 160	Color 10 CONGO BLUE Center 158
			161 - 200	Color Rotate Clockwise S>>>>>>F
			200 - 205	Stop no Rotation
			206 - 245	Color Rotate Counter Clockwise S<<<<<<<F

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
15	Gobo Wheel 1 (aperture wheel Fixed)	0	0 - 255	Gobo Wheel 1 Section
			0 - 4	Open
			5 - 9	Aperture hole EXTRA SMALL
			10 - 14	Aperture hole SMALL
			15 - 19	Aperture hole MEDIUM
			20 - 24	Aperture hole LARGE
			25 - 29	Aperture HORIZONTAL BAR
			30 - 34	Aperture HORIZONTAL SLITS
			35 - 39	Aperture 3 DOT SPLIT
			40 - 44	Aperture SPLIT CONE
			45 - 49	Aperture PEACE
			50 - 54	Aperture BAR BREAK
			55 - 59	Aperture VERTICAL SLITS
			60 - 64	Aperture CLOVER
			65 - 69	Open
				Gobo Shake Slow >>>>>> Fast
			70 - 80	Aperture hole EXTRA SMALL
			81 - 91	Aperture hole SMALL
			92 - 102	Aperture hole MEDIUM
			103 - 113	Aperture hole LARGE
			114 - 124	Aperture HORIZONTAL BAR
			125 - 135	Aperture HORIZONTAL SLITS
			136 - 146	Aperture 3 DOT SPLIT
			147 - 157	Aperture SPLIT CONE
			158 - 168	Aperture PEACE
			169 - 179	Aperture BAR BREAK
			180 - 190	Aperture VERTICAL SLITS
			191 - 201	Aperture CLOVER
			202 - 212	Open
				Wheel Spin
			213 - 228	Gobo Wheel Rotate Clockwise S>>>>F
			229 - 239	Stop No Rotation
			240 - 255	Gobo Wheel Rotate Counter Clockwise S<<<<<F
			251 - 255	Stop No Rotation
16	Gobo Wheel 2	0	0 - 255	Gobo Wheel 2 Selection
			0 - 4	Open - No Gobo
			5 - 9	Gobo 1 Index CIRCLE SPACE VL10
			10 - 14	Gobo 2 Index DOUBLE 3 HOLE VL10
			15 - 19	Gobo 3 Index PSYCLONE VL10
			20 - 24	Gobo 4 Index CROSSED BAR VL10
			25 - 29	Gobo 5 Index RAY GEAR VL10
			30 - 34	Gobo 6 Index PUNCHCARD VL10
			35 - 39	Gobo 7 Index SHOCK BREAKUP VL10
			40 - 44	Gobo 8 Index ROOS OVAL VL10
			45 - 49	Open - No Gobo
				Rotation - speed and direction via channel 17/18
			50 - 54	Gobo 1 Rotate CIRCLE SPACE VL10
			55 - 59	Gobo 2 Rotate DOUBLE 3 HOLE VL10

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
16	Gobo Wheel 2 continued	0	60 - 64	Gobo 3 Rotate PSYCLONE VL10
			65 - 69	Gobo 4 Rotate CROSSED BAR VL10
			70 - 74	Gobo 5 Rotate RAY GEAR VL10
			75 - 79	Gobo 6 Rotate PUNCHCARD VL10
			80 - 84	Gobo 7 Rotate SHOCK BREAKUP VL10
			85 - 89	Gobo 8 Rotate ROOS OVAL VL10
				Megastep Rotation - speed and direction controlled via channel 17/18
			90 - 94	Open - No Gobo
			95 - 99	Gobo 1 MegaStep CIRCLE SPACE VL10
			100 - 104	Gobo 2 MegaStep DOUBLE 3 HOLE VL10
			105 - 109	Gobo 3 MegaStep PSYCLONE VL10
			110 - 114	Gobo 4 MegaStep CROSSED BAR VL10
			115 - 119	Gobo 5 MegaStep RAY GEAR VL10
			120 - 124	Gobo 6 MegaStep PUNCHCARD VL10
			125 - 129	Gobo 7 MegaStep SHOCK BREAKUP VL10
			130 - 134	Gobo 8 MegaStep ROOS OVAL VL10
			135 - 139	Open - No Gobo
				Index - Position controlled via channel 17/18
			140 - 152	Gobo 1 Twist CIRCLE SPACE VL10 Slow >>>> Fast
			153 - 165	Gobo 2 Twist DOUBLE 3 HOLE VL10 Slow >>>> Fast
			166 - 178	Gobo 3 Twist PSYCLONE VL10 Slow >>>> Fast
			179 - 191	Gobo 4 Twist CROSSED BAR VL10 Slow >>>> Fast
			192 - 204	Gobo 5 Twist RAY GEAR VL10 Slow >>>> Fast
			205 - 217	Gobo 6 Twist PUNCHCARD VL10 Slow >>>> Fast
			218 - 230	Gobo 7 Twist SHOCK BREAKUP VL10 Slow >>>> Fast
			231 - 243	Gobo 8 Twist ROOS OVAL VL10 Slow >>>> Fast
			244 - 255	Open - No Gobo
17	Gobo 2 Rot/ Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 2 channel 18.
			0 - 32756	Rotate Slow to Fast <<<
18	Gobo 2 Rot/ Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 3 (VLFX wheel)	0	0-255	8-bit control Gobo Wheel 3 (VLFX WheelAnimation Wheel) Index - Position controlled via channel 20/21
			0 - 5	Open -
			6 - 11	Ani Wheel 1 Index DICHROFUSION
			12 - 17	Ani Wheel 2 Index CONCURRENT
			18 - 23	Ani Wheel 3 Index WICKEDWAVES
			24 - 29	Ani Wheel 4 Index CONCETRIC
			30 - 35	Ani Wheel 5 Index ON THE ROCKS
			36 - 41	Open -
				Rotation - speed and direction controlled via channel 20/21
			42 - 47	Ani Wheel 1 Rotation DICHROFUSION
			48 - 53	Ani Wheel 2 Rotation CONCURRENT
			54 - 59	Ani Wheel 3 Rotation WICKEDWAVES
			60 - 65	Ani Wheel 4 Rotation CONCETRIC
			66 - 71	Ani Wheel 5 Rotation ON THE ROCKS

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DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
19	Gobo Wheel 3 (VLFX wheel)	0	72 - 77 78 - 83 84 - 89 90 - 95 96 - 101 102 - 107 108 - 113 114 - 139 140 - 165 166 - 191 192 - 217 218 - 243 244 - 255	Open - Megastep Rotation - speed and direction controlled via channel 20/21 Ani Wheel 1 Megastep DICHROFUSION Ani Wheel 2 Megastep CONCURRENT Ani Wheel 3 Megastep WICKEDWAVES Ani Wheel 4 Megastep CONCETRIC Ani Wheel 5 Megastep ON THE ROCKS Open Index - Position controlled via channel 20/21 Ani Wheel 1 Twist DICHROFUSION S>>>>F Ani Wheel 2 Twist CONCURRENT S>>>>F Ani Wheel 3 Twist WICKEDWAVES S>>>>F Ani Wheel 4 Twist CONCETRIC S>>>>F Ani Wheel 5 Twist ON THE ROCKS S>>>>F Open
20	Gobo 3 Rot/ Index (VLFX Wheel) High Byte	32767	0 - 65535	Index and rotation gobo wheel 3
21	Gobo 3 Rot/ Index (VLFX Wheel) Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Slow to Fast <<< Rotation STOP Rotate Slow to Fast >>>
20	Prism 1 Triangular Prism	0 - 255	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
21	Prism 1 Index/ Rot High Byte	32767	0-65535	16-bit control of prism rotation and index.
22	Prism 1 Index/ Rot Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Slow to Fast <<< Rotation STOP Rotate Slow to Fast >>>
23	Prism 2 Triangular Prism	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
24	Prism 2 Index/ Rot High Byte	32767	0-65535	16-bit control of prism rotation and index.
25	Prism 2 Index/ Rot Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>
26	Frost 1	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
27	Wash Mode (Frost 2)	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
28	Strobe / Shutter	33	0 - 31	Shutter Closed
			32 - 63	Shutter Open (Default 33)
			64 - 150	Strobe Slow>>>>>>Fast
			151 - 150	Strobe Open
			151 - 200	Strobe Random Slow>>>>>>Fast
			201 - 250	Strobe Random Sync Slow>>>>>>Fast
			251 - 255	Shutter Open
29	Focus Timing	255	0 - 255	Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel Chart in User Manual
30	Optics Timing	255	0 - 255	Adjustment of fixture timing to control lensing mechanisms. See Timing Channel Chart in User Manual
31	Color Timing	255	0 - 255	Adjustment of fixture timing to control color mechanisms. See Timing Channel Chart in User Manual
32	Beam Timing	255	0 - 255	Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel Chart in User Manual
33	Gobo Timing	255	0 - 255	Adjustment of fixture timing to control gobo mechanisms. See Timing Channel Chart in User Manual
34	Luminaire Control	0	0 - 255	Control Channel used for full fixture settings Set discrete value of desired effect
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal
			11 - 15	Lamp On
			16 - 20	Lamp Off
			21 - 25	Fixture shutdown
			26 - 30	Display-Menu On
			31 - 35	Display-Menu Off
			36 - 40	ReCal Position
			41 - 45	ReCal Color
			46 - 50	ReCal Gobo
			51 - 55	ReCal Beam
			56 - 60	ReCal Optics
			61 - 65	Reserved (Future use)
			66 - 70	Reset Fixture to Defaults
			71 - 75	Full Luminaire Reboot This command will douse lamp and reset all processors in fixture
			76 - 80	"Fixture Status On/Off. This command will enable to display to show fixture status for 5 min. After this time
			81 - 85	Reserved Values
			86 - 90	Reserved Values
			91 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 105	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 225	Reserved Values
			126 - 130	Reserved Values
			131-135	Reserved Values
			136-255	Reserved Values

TABLE 3. CLONE MODE

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	Fixture Pan - 540° Total Pan Rotation Range
4	Pan Low			
5	Tilt High	32767	0-65535	Fixture Tilt - 270° Total Tilt Range
6	Tilt Low			
7	Focus High	32767	0-65535	16-bit Focus Control
8	Focus Low			
9	Zoom High	32767	0-65535	16-bit Zoom control
10	Zoom Low			
11	Cyan	0	0 - 255	Control of cyan color mechanism.
12	Yellow	0	0 - 255	Control of yellow color mechanism.
13	Magenta	0	0 - 255	Control of Magenta color mechanism.
14	Color Wheel	0	0 - 255	8-bit control of Color Wheel. (spin speed slow to fast from control channel)
			0	OPEN
			9	Color 1 RED
			18	Color 2 BLUE
			27	Color 3 YELLOW
			37	Color 4 KELLY GREEN
			46	Color 5 MAGENTA
			55	Color 6 CTO
			64	Color 7 LAVENDER
			73	Color 8 GREEN
			82	Color 9 AMBER
			91	Color 10 CONGO BLUE
			101 - 110	Open
			111 - 115	Color 1 RED Center 113
			116 - 120	Color 2 BLUE Center 118
			121 - 125	Color 3 YELLOW Center 123
			126 - 130	Color 4 KELLY GEEEN Center 128
			131 - 135	Color 5 MAGENTA Center 133
			136 - 140	Color 6 CTO Center 138
			141 - 145	Color 7 LAVENDER Center 143
			146 - 150	Color 8 GerEN Center 148
			151 - 155	Color 9 AMBER Center 153
			156 - 160	Color 10 CONGO BLUE Center 158
			161 - 200	Color Rotate Clockwise S>>>>>>F
			201 - 205	Stop no Rotation
			206 - 245	Color Rotate Counter Clockwise S>>>>>>F

TABLE 3. CLONE MODE

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
15	Gobo Wheel 1 (aperture wheel Fixed)	0	0 - 255	Gobo Wheel 1 Section
			0 - 4	Open
			5 - 9	Aperture hole EXTRA SMALL
			10 - 14	Aperture hole SMALL
			15 - 19	Aperture hole MEDIUM
			20 - 24	Aperture hole LARGE
			25 - 29	Aperture HORIZONTAL BAR
			30 - 34	Aperture HORIZONTAL SLITS
			35 - 39	Aperture 3 DOT SPLIT
			40 - 44	Aperture SPLIT CONE
			45 - 49	Aperture PEACE
			50 - 54	Aperture BAR BREAK
			55 - 59	Aperture VERTICAL SLITS
			60 - 64	Aperture CLOVER
			65 - 69	Open
				Gobo Shake Slow >>>>>> Fast
			70 - 80	Aperture hole EXTRA SMALL
			81 - 91	Aperture hole SMALL
			92 - 102	Aperture hole MEDIUM
			103 - 113	Aperture hole LARGE
			114 - 124	Aperture HORIZONTAL BAR
			125 - 135	Aperture HORIZONTAL SLITS
			136 - 146	Aperture 3 DOT SPLIT
			147 - 157	Aperture SPLIT CONE
			158 - 168	Aperture PEACE
			169 - 179	Aperture BAR BREAK
			180 - 190	Aperture VERTICAL SLITS
			191 - 201	Aperture CLOVER
			202 - 212	Open
				Wheel Spin
			213 - 228	Gobo Wheel Rotate Clockwise S<<<<<F
			229 - 239	Stop No Rotation
			240 - 255	Gobo Wheel Rotate Counter Clockwise S<<<<<F
16	Gobo Wheel 2	0	0 - 255	Gobo Wheel 2 Selection
			0 - 4	Open - No Gobo
			5 - 9	Gobo 1 Index CIRCLE SPACE VL10
			10 - 14	Gobo 2 Index DOUBLE 3 HOLE VL10
			15 - 19	Gobo 3 Index PSYCLONE VL10
			20 - 24	Gobo 4 Index CROSSED BAR VL10
			25 - 29	Gobo 5 Index RAY GEAR VL10
			30 - 34	Gobo 6 Index PUNCHCARD VL10
			35 - 39	Gobo 7 Index SHOCK BREAKUP VL10
			40 - 44	Gobo 8 Index ROOS OVAL VL10
			45 - 49	Open - No Gobo
				Rotation - speed and direction via channel 17/18
			50 - 54	Gobo 1 Rotate CIRCLE SPACE VL10
			55 - 59	Gobo 2 Rotate DOUBLE 3 HOLE VL10
			60 - 64	Gobo 3 Rotate PSYCLONE VL10

TABLE 3. CLONE MODE

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
16	Gobo Wheel 2 continued	0	65 - 69	Gobo 4 Rotate CROSSED BAR VL10
			70 - 74	Gobo 5 Rotate RAY GEAR VL10
			75 - 79	Gobo 6 Rotate PUNCHCARD VL10
			80 - 84	Gobo 7 Rotate SHOCK BREAKUP VL10
			85 - 89	Gobo 8 Rotate ROOS OVAL VL10 Megastep Rotation - speed and direction controlled via channel 17/18
			90 - 94	Open - No Gobo
			95 - 99	Gobo 1 MegaStep CIRCLE SPACE VL10
			100 - 104	Gobo 2 MegaStep DOUBLE 3 HOLE VL10
			105 - 109	Gobo 3 MegaStep PSYCLONE VL10
			110 - 114	Gobo 4 MegaStep CROSSED BAR VL10
			115 - 119	Gobo 5 MegaStep RAY GEAR VL10
			120 - 124	Gobo 6 MegaStep PUNCHCARD VL10
			125 - 129	Gobo 7 MegaStep SHOCK BREAKUP VL10
			130 - 134	Gobo 8 MegaStep ROOS OVAL VL10
			135 - 139	Open - No Gobo
				Index - Position controlled via channel 17/18
			140 - 152	Gobo 1 Twist CIRCLE SPACE VL10 Slow >>>> Fast
			153 - 165	Gobo 2 Twist DOUBLE 3 HOLE VL10 Slow >>>> Fast
			166 - 178	Gobo 3 Twist PSYCLONE VL10 Slow >>>> Fast
			179 - 191	Gobo 4 Twist CROSSED BAR VL10 Slow >>>> Fast
			192 - 204	Gobo 5 Twist RAY GEAR VL10 Slow >>>> Fast
			205 - 217	Gobo 6 Twist PUNCHCARD VL10 Slow >>>> Fast
			218 - 230	Gobo 7 Twist SHOCK BREAKUP VL10 Slow >>>> Fast
			231 - 243	Gobo 8 Twist ROOS OVAL VL10 Slow >>>> Fast
			244 - 255	Open - No Gobo
17	Gobo 2 Rot/ Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 2 channel 18.
			0 - 32756	Rotate Fast to Slow <<<
18	Gobo 2 Rot/ Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 3 (VLFX wheel)	0	0-255	8-bit control Gobo Wheel 3 (VLFX WheelAnimation Wheel) Index - Position controlled via channel 20/21
			0 - 5	Open -
			6 - 11	Ani Wheel 1 Index DICHROFUSION
			12 - 17	Ani Wheel 2 Index CONCURRENT
			18 - 23	Ani Wheel 3 Index WICKEDWAVES
			24 - 29	Ani Wheel 4 Index CONCETRIC
			30 - 35	Ani Wheel 5 Index ON THE ROCKS
			36 - 41	Open - Rotation - speed and direction controlled via channel 20/21
			42 - 47	Ani Wheel 1 Rotation DICHROFUSION
			48 - 53	Ani Wheel 2 Rotation CONCURRENT
			54 - 59	Ani Wheel 3 Rotation WICKEDWAVES
			60 - 65	Ani Wheel 4 Rotation CONCETRIC
			66 - 71	Ani Wheel 5 Rotation ON THE ROCKS
			72 - 77	Open - Megastep Rotation - speed and direction controlled via channel 20/21
			78 - 83	Ani Wheel 1 Megastep DICHROFUSION
			84 - 89	Ani Wheel 2 Megastep CONCURRENT

TABLE 3. CLONE MODE

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
19	Gobo Wheel 3 (VLFX wheel)	0	90 - 95 96 - 101 102 - 107 108 - 113 114 - 139 140 - 165 166 - 191 192 - 217 218 - 243 244 - 255	Ani Wheel 3 Megastep WICKEDWAVES Ani Wheel 4 Megastep CONCENTRIC Ani Wheel 5 Megastep ON THE ROCKS Open Index - Position controlled via channel 20/21 Ani Wheel 1 Twist DICHROFUSION S>>>>F Ani Wheel 2 Twist CONCURRENT S>>>>F Ani Wheel 3 Twist WICKEDWAVES S>>>>F Ani Wheel 4 Twist CONCENTRIC S>>>>F Ani Wheel 5 Twist ON THE ROCKS S>>>>F Open
20	Gobo 3 Rot/ Index High Byte	32767	0 - 65535	index and rotation gobo wheel 3 (VLFX Wheel)
21	Gobo 3 Rot/ Index Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>
22	Prism 1 Triangular Prism	0 - 255	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
23	Prism 1 Index/ Rot High Byte	32767	0-65535	16-bit control of prism rotation and index.
24	Prism 1 Index/ Rot Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>
25	Prism 2 Triangular Prism	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	Controls Prism mechanism with following values. Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
26	Prism 2 Index/ Rot High Byte	32767	0-65535	16-bit control of prism rotation and index.
27	Prism 2 Index/ Rot Low Byte		0 - 32756 32757 - 32780 32781 - 65535	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>
28	Frost 1	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
29	Wash Mode (Frost 2)	0	0-255	Linear control of frost mechanism 0) to from out (DMX full in (DMX 255)
30	Strobe / Shutter	33	0-31 32-63 64-95 96-127 128-159 160-191 192-223 224-255	Shutter closed shutter open Strobe Slow>>>>>>>Fast shutter open Strobe Random Slow>>>>>>>Fast shutter open Strobe Random Sync Slow>>>>>>>Fast shutter open

TABLE 3. CLONE MODE

DMX	PARAMETER	DEFAULTS*	RANGE	DESCRIPTION
31	Luminaire Control	0	0 - 255	"Control Channel used for full fixture settings "lamp controls "Set discrete value of desired effect ">3 seconds
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal
			11 - 15	Lamp On
			16 - 20	Lamp Off
			21 - 25	Fixture shutdown
			26 - 30	Display-Menu On
			31 - 35	Display-Menu Off
			36 - 40	ReCal Position
			41 - 45	ReCal Color
			46 - 50	ReCal Gobo
			51 - 55	ReCal Beam
			56 - 60	ReCal Optics
			61 - 65	Reserved (Future use)
			66 - 70	Reset Fixture to Defaults
			71 - 75	"Full Luminaire Reboot This command will douse lamp and reset all processors in fixture
			76 - 80	"Fixture Status On/Off. This command will enable to display to show fixture status for 5 min. After this time
			81 - 85	Reserved Values
			86 - 90	Reserved Values
			91 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 105	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 225	Reserved Values
			126 - 130	Reserved Values
			131-135	Reserved Values
			136-255	Reserved Values

TABLE 4. TIMING CHANNELS

DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)
0		Full Speed	46	18	9.2	92	36	26
1		0.2	47		9.4	93		27
2		0.4	48	19	9.6	94	37	27
3	1	0.6	49		9.8	95		27
4		0.8	50		10	96		28
5	2	1	51	20	10.2	97	38	28
6		1.2	52		10.4	98		29
7		1.4	53		10.6	99	39	29
8	3	1.6	54	21	11	100		29
9		1.8	55		11	101		30
10	4	2	56	22	12	102	40	30
11		2.2	57		12	103		30
12		2.4	58		13	104		31
13	5	2.6	59	23	13	105	41	31
14		2.8	60		14	106		32
15	6	3	61	24	14	107	42	32
16		3.2	62		14	108		32
17		3.4	63		15	109		33
18	7	3.6	64	25	15	110	43	33
19		3.8	65		16	111		34
20	8	4	66	26	16	112	44	34
21		4.2	67		16	113		34
22		4.4	68		17	114		35
23	9	4.6	69	27	17	115	45	35
24		4.8	70		18	116		36
25	10	5	71	28	18	117	46	36
26		5.2	72		18	118		36
27		5.4	73		19	119		37
28	11	5.6	74	29	19	120	47	37
29		5.8	75		20	121		38
30		6	76	30	20	122	48	38
31	12	6.2	77		20	123		38
32		6.4	78		21	124		39
33	13	6.6	79	31	21	125	49	39
34		6.8	80		21	121		38
35		7	81		22	122	48	38
36	14	7.2	82	32	22	123		38
37		7.4	83		23	124		39
38	15	7.6	84	33	23	125	49	39
39		7.8	85		23	126		39
40		8	86		24	127		40
41	16	8.2	87	34	24	128	50	40
42		8.4	88		25	129		41
43	17	8.6	89	35	25	130	51	41
44		8.8	90		25	131		41
45		9	91		26	132		42

TABLE 4. TIMING CHANNELS

DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)
133	52	42	180		65	227	89	210
134		43	181	71	65	228		210
135	53	43	182		65	229		220
136		43	183		70	230	90	220
137		44	184	72	70	231		230
138	54	44	185		75	232	91	230
139		45	186	73	75	233		230
140	55	45	187		75	234		240
141		45	188		80	235	92	240
142		46	189	74	80	236		250
143	56	46	190		85	237	93	250
144		47	191	75	85	238		250
145	57	47	192		85	239		260
146		47	193		90	240	94	260
147		48	194	76	90	241		270
148	58	48	195		95	242	95	270
149		49	196	77	95	243		270
150	59	49	197		95	244		280
151		49	198		100	245	96	280
152		50	199	78	100	246		290
153	60	50	200		110	247	97	290
154		50	201	79	110	248		290
155		51	202		110	249		300
156	61	51	203		120	250	98	300
157		52	204	80	120	251		310
158	62	52	205		120	252	99	310
159		52	206	81	130	253		310
160		53	207		130	254		310
161	63	53	208		140	255	100	Follows Cue Data
162		54	209	82	140			
163	64	54	210		140			
164		54	211		150			
165		55	212	83	150			
166	65	55	213		160			
167		56	214	84	160			
168	66	56	215		160			
169		56	216		170			
170		57	217	85	170			
171	67	57	218		180			
172		58	219	86	180			
173	68	58	220		180			
174		58	221		190			
175		59	222	87	190			
176	69	59	223		200			
177		59	224	88	200			
178		60	225		200			
179	70	60	226		210			