

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control Default value 50% Focus range
8	Focus Low			
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255	8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centered at 0)
			0-31	Open
			32-63	VL RED Centre - 48
			64-95	Dark Blue Centre - 80
			96-127	Yellow Centre - 112
			128-159	Kelly Green Centre - 144
			160-191	Amber Centre 176
			192-223	Congo Blue Centre 208
224-255	Open			
15	Color Wheel Control	0	0 - 255	
			0 - 5	Linear Movement using shortest (quickest) path.
			6 - 10	Linear Movement using normal (longest) path.
			11 - 15	Wheel Spin CW (Forward)
			16 - 20	Wheel Spin STOP
			21 - 25	Wheel Spin CCW (Reverse)
			26 - 56	Color Shake Quickest Path (Slow to Fast) For fastest shake set color timing to 0
			57 - 87	Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0
88 - 255	Reserved Values			

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
16	Gobo Wheel 1	0	0 - 255	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Interchangeable glass gobos
			0 - 5	Open - No Gobo
			6 - 10	Gobo 1 (Night Sky) Index
			11 - 15	Gobo 2 (Circle of Ovals) Index
			16 - 20	Gobo 3 (Bricked Out) Index
			21 - 25	Gobo 4 (Neurons) Index
			26 - 30	Gobo 5 (Swirl) Index
			31 - 35	Gobo 6 (Crossed-Bars) Index
			36 - 40	Gobo 7 (On the Rock) Index
			41 - 45	Open - No Gobo
			46 - 50	Gobo 1 (Night Sky) Rotate
			51 - 55	Gobo 2 (Circle of Ovals) Rotate
			56 - 60	Gobo 3 (Bricked Out) Rotate
			61 - 65	Gobo 4 (Neurons) Rotate
			66 - 70	Gobo 5 (Swirl) Rotate
			71 - 75	Gobo 6 (Crossed-Bars) Rotate
			76 - 80	Gobo 7 (On the Rock) Rotate
			81 - 85	Open - No Gobo
			86 - 90	Gobo 1 (Night Sky) Rotate with Mega Stepping
			91 - 95	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
96 - 100	Gobo 3 (Bricked Out) Rotate with Mega Stepping			
101 - 105	Gobo 4 (Neurons) Rotate with Mega Stepping			
106 - 110	Gobo 5 (Swirl) Rotate with Mega Stepping			
111 - 115	Gobo 6 (Crossed-Bars) Rotate with Mega Stepping			
116 - 120	Gobo 7 (On the Rock) Rotate with Mega Stepping			
121 - 255	Reserved Values			
17	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
18	Gobo 1 Rot/Index Low Byte		0 - 32756	Rotate Fast to Slow <<<
			32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 1 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 (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 CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
			181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
			211 - 255	Reserved Values

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
20	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22 Single metal stamped wheel
			0-25	Open - No Gobo
			26-51	Gobo 1 (Leafy Breakup)
			52-77	Gobo 2 (Honey Bomb)
			78-103	Gobo 3 Swirl (Radial Breakup)
			104-129	Gobo 4 (Grid)
			130-155	Gobo 5 (Circle of dots)
			156-181	Gobo 6 (Punchcard)
			182-207	Gobo 7 (Vertical bars)
			208-233	Gobo 8 (Medium Circle)
234 - 255	Open - No Gobo			
21	Gobo Wheel 2 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 (Channel 21)
			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 Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Reserved Values
181 - 210	Reserved Values			
211 - 255	Reserved Values			
22	Iris	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
23	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
24	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
25	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
26	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
27	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
28	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
29	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
30	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
31	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
32	Triangular Prism	0 - 255	0 - 255	Controls Prism mechanism with following values.
			0 - 5	Open
			6 - 10	Index
			11 - 15	Rotate Normal
			16 - 20	Rotate with Mega Stepping
21 - 255	Reserved Values			
33	Prism Index/Rot High Byte	32767	0 - 65535	16-bit control of prism rotation and index.
			0 - 32756	Rotate Fast to Slow <<<
34	Prism Index/Rot Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>

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DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
35	Frost	0	0-255	Linear control of frost mechanism from out to full in (DMX 0-255)
36	Strobe Speed	128	0 - 255	Controls strobe rate from slowest (DMX 0) to fastest (DMX 255) 0.5Hz to 30Hz
37	Strobe Control	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 255	Control Channel for strobing functions. Set discrete value of desired effect Open Closed Normal Strobe Random Strobe Random Sync Reserved Values
38	Programmers Channel	0	0-40 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 - 105 106 - 110 111 - 115 116 - 120 121 - 125 126 - 130 131 - 135 136 - 140 141 - 145 146 - 150 151 - 155 156 - 160 161 - 165 166 - 170 171 - 175 176 - 255	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Dimmer Snap On Dimmer Snap Off (Default) Reserved Values Reserved Values Edge Tracking on Edge tracking off (Default) Reserved Values Color Snap off (Default) Color Snap on (de-activates color timing channel) Reserved Values
39	Focus Timing	255	0 - 255	Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel
40	Optics Timing	255	0 - 255	Adjustment of fixture timing to control lensing mechanisms. See Timing Channel
41	Color Timing	255	0 - 255	Adjustment of fixture timing to control color mechanisms. See Timing Channel
42	Beam Timing	255	0 - 255	Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel

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DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
43	Gobo Timing	255	0 - 255	Adjustment of fixture timing to control gobo mechanisms. See Timing Channel
44	Fan Control	0	0 - 255 0-4 05 - 255	Dynamically control fan speed vs LED Output operation. Control values as follows . . . Automatic fan/output adjustment (Default) Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface
45	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 - 105 106 - 110 111 - 115 116 - 120 121 - 125 126 - 130 131 - 135 136 - 140 141 - 145 146 - 150	Control Channel used for full fixture settings lamp controls Set discrete value of desired effect then set value to 0 (Idle). Idle (Default) Full Luminaire ReCal - Also Used to Wake fixture up from shutdown Fixture Shutdown Reserved Values Display - Menu ON Display - Menu OFF Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Display On Display Off Status Check (Turn UI Screen Green if fixture has no Error - Red if Error) Reserved Values Reserved Values Reserved Values Boost Mode - Fixture output increase with Higher fan speed No Fan control (44) Standard Mode Studio Mode - Reduced output with lower fan settings No Fan control (44) Reserved Values Reserved Values Reserved Values Fan On (Default) (Continuous spin rate) Fan Auto (Variable spin rate based on LED temperature) Reserved Values

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
45	Luminaire Control <i>continued</i>	0	151 - 155	ReCal Position
			156 - 160	ReCal Color
			161 - 165	ReCal Beam
			166 - 170	ReCal Optics
			171-175	ReCal Gobo
			176 - 180	Reset fixture to default
			181 - 255	Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control
8	Focus Low			Default value 50% Focus range
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255	8-bit control of Color Wheel (spin speed slow to fast from control channel) OPEN (centred at 0)
			0-31	Open
			32-63	VL RED Centre - 48
			64-95	Dark Blue Centre - 80
			96-127	Yellow Centre - 112
			128-159	Kelly Green Centre - 144
			160-191	Amber Centre 176
			192-223	Congo Blue Centre 208
224-255	Open			
15	Color Wheel Control	0	0 - 255	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 Quickest Path (Slow to Fast) For fastest shake set color timing to 0 Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0 Reserved Values
			0 - 5	
			6 - 10	
			11 - 15	
			16 - 20	
			21 - 25	
			26 - 56	
			57 - 87	
88 - 255				

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
16	Gobo Wheel 1	0	0 - 255	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Interchangeable glass gobos
			0 - 5	Open - No Gobo
			6 - 10	Gobo 1 (Night Sky) Index
			11 - 15	Gobo 2 (Circle of Ovals) Index
			16 - 20	Gobo 3 (Bricked Out) Index
			21 - 25	Gobo 4 (Nurons) Index
			26 - 30	Gobo 5 (Swirl) Index
			31 - 35	Gobo 6 (Crossed-Bars) Index
			36 - 40	Gobo 7 (On the Rock) Index
			41 - 45	Open - No Gobo
			46 - 50	Gobo 1 (Night Sky) Rotate
			51 - 55	Gobo 2 (Circle of Ovals) Rotate
			56 - 60	Gobo 3 (Bricked Out) Rotate
			61 - 65	Gobo 4 (Nurons) Rotate
			66 - 70	Gobo 5 (Swirl) Rotate
			71 - 75	Gobo 6 (Crossed-Bars) Rotate
			76 - 80	Gobo 7 (On the Rock) Rotate
			81 - 85	Open - No Gobo
			86 - 90	Gobo 1 (Night Sky) Rotate with Mega Stepping
			91 - 95	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
96 - 100	Gobo 3 (Bricked Out) Rotate with Mega Stepping			
101 - 105	Gobo 4 (Nurons) Rotate with Mega Stepping			
106 - 110	Gobo 5 (Swirl) Rotate with Mega Stepping			
111 - 115	Gobo 6 (Crossed-Bars) Rotate with Mega Stepping			
116 - 120	Gobo 7 (On the Rock) Rotate with Mega Stepping			
121 - 255	Reserved Values			
17	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
18	Gobo 1 Rot/Index Low Byte		0 - 32756	Rotate Fast to Slow <<<
			32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 1 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 (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 CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
			181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
			211 - 255	Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
20	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22; Single metal stamped wheel
			0-25	Open - No Gobo
			26-51	Gobo 1 (Leafy Breakup)
			52-77	Gobo 2 (Honey Bomb)
			78-103	Gobo 3 Swirl (Radial Breakup)
			104-129	Gobo 4 (Grid)
			130-155	Gobo 5 (Circle of dots)
			156-181	Gobo 6 (Punchcard)
			182-207	Gobo 7 (Vertical bars)
			208-233	Gobo 8 (Medium Circle)
234 - 255	Open - No Gobo			
21	Gobo Wheel 2 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 (Channel 21)
			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 Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Reserved Values
181 - 210	Reserved Values			
211 - 255	Reserved Values			
22	Iris	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
23	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
24	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
25	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
26	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
27	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
28	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
29	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
30	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
31	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
32	Triangular Prism	0 - 255	0 - 255	Controls Prism mechanism with following values.
			0 - 5	Open
			6 - 10	Index
			11 - 15	Rotate Normal
			16 - 20	Rotate with Mega Stepping
21 - 255	Reserved Values			
33	Prism Index/Rot High Byte	32767	0 - 65535	16-bit control of prism rotation and index.
			0 - 32756	Rotate Fast to Slow <<<
34	Prism Index/Rot Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>



**TABLE 2. 16-BIT**

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
35	Frost	0	0-255	Linear control of frost mechanism from out to full in (DMX 0- 255)
36	Strobe Speed	128	0 - 255	Controls strobe rate from slowest to fastest (DMX 0-255) 0.5Hz to 30Hz
37	Strobe Control	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 255	Control Channel for strobing functions. Set discrete value of desired effect Open Closed Normal Strobe Random Strobe Random Sync Reserved Values
38	Programmers Channel	0	0-40 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 - 105 106 - 110 111 - 115 116 - 120 121 - 125 126 - 130 131 - 135 136 - 140 141 - 145 146 - 150 151 - 155 156 - 160 161 - 165 166 - 170 171 - 175 176 - 255	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Dimmer Snap On Dimmer Snap Off (Default) Reserved Values Reserved Values Edge Tracking on Edge tracking off (Default) Reserved Values Color Snap off (Default) Color Snap on (de-activates color timing channel) Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values
39	Fan Control	0	0 - 255 0-4 05 - 255	Dynamically control fan speed vs LED Output operation. Control values as follows . . . Automatic fan/output adjustment (Default) Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
40	Luminaire Control	0	0 - 255	Control Channel used for full fixture settings lamp controls. Set discrete value of desired effect then set value to 0 (Idle).
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal - Also Used to Wake fixture up from shutdown
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 35	Reserved Values
			36 - 40	Reserved Values
			41 - 45	Reserved Values
			46 - 50	Reserved Values
			51 - 55	Reserved Values
			56 - 60	Reserved Values
			61 - 65	Reserved Values
			66 - 70	Reserved Values
			71 - 75	Reserved Values
			76 - 80	Display On
			81 - 85	Display Off
			86 - 90	Status Check (Turn UI Screen Green if fixture has no Error - Red if Error)
			91 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 105	Reserved Values
			106 - 110	Boost Mode - Fixture output increase with Higher fan speed No Fan control (44)
			111 - 115	Standard Mode -
			116 - 120	Studio Mode - Reduced output with lower fan settings No Fan control (44)
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
136 - 140	Fan On (Default) (Continuous spin rate)			
141 - 145	Fan Auto (Variable spin rate based on LED temperature)			
146 - 150	Reserved Values			
151 - 155	ReCal Position			
156 - 160	ReCal Color			
161 - 165	ReCal Beam			
166 - 170	ReCal Optics			
171-175	ReCal Gobo			
176 - 180	Reset fixture to default			
181 - 255	Reserved Values			

**TABLE 3. CLONE**

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control Default value 50% Focus range
8	Focus Low			
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255 0-5 6-11 12-17 18-23 24-29 30-35 36-41 42-47 48-68 69-89 90-110 111-131 132-152 153-173 174-179 180-211 212-217 218-249 250-255	Color Wheel. Open Centered Color VL RED Center-9 Centered Color Dark Blue Center-15 Centered Color Yellow Center-21 Centered Color Kelly Green Center-27 Centered Color Amber Center-33 Centered Color Congo Blue Center-39 Variable position Open Center-45 Variable position VL RED Center-58 Variable position Dark Blue Center-79 Variable position Yellow Center-100 Variable position Kelly Green Center-121 Variable position Amber Center-142 Variable position Congo Blue Center-163 Variable position Open Center-177 Variable position Color Rotate Clockwise S>>>>>>>F Center-196 Variable position Stop no Rotation Center-215 Variable position Color Rotate Counter Clockwise S<<<<<<<F Center-234 Variable position Open Center-253
15	Gobo Wheel 1	0	0-3 4-7 8-11 12-15 16-19 20-23 24-27 28-31 32-35 36-39 40-43	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Index Open - No Gobo Gobo 1 (Night Sky) Index Gobo 2 (Circle of Ovals) Index Gobo 3 (Bricked Out) Index Gobo 4 (Nurons) Index Gobo 5 (Swirl) Index Gobo 6 (Crossed Bars) Index Gobo 7 (On the Rock) Index Open - No Gobo Gobo 1 (Night Sky) Rotate Gobo 2 (Circle of Ovals) Rotate

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
15	Gobo Wheel 1 <i>continued</i>	0	44-47	Gobo 3 (Bricked Out) Rotate
			48-51	Gobo 4 (Nurons) Rotate
			52-55	Gobo 5 (Swirl) Rotate
			56-59	Gobo 6 (Crossed Bars) Rotate
			60-63	Gobo 7 (On the Rock) Rotate
			64-67	Open - No Gobo
			68-71	Gobo 1 (Night Sky) Rotate with Mega Stepping
			72-75	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
			76-79	Gobo 3 (Bricked Out) Rotate with Mega Stepping
			80-83	Gobo 4 (Nurons) Rotate with Mega Stepping
			84-87	Gobo 5 (Swirl) Rotate with Mega Stepping
			88-91	Gobo 6 (Crossed Bars) Rotate with Mega Stepping
			92-95	Gobo 7 (On the Rock) Rotate with Mega Stepping
			96-99	Open - No Gobo
			100-121	Gobo 1 (Night Sky) Rotate with Twist Slow >>>> Fast
			122-142	Gobo 2 (Circle of Ovals) Rotate with Twist Slow >>>> Fast
			143-163	Gobo 3 (Bricked Out) Rotate with Twist Slow >>>> Fast
164-184	Gobo 4 (Nurons) Rotate with Twist Slow >>>> Fast			
185-205	Gobo 5 (Swirl) Rotate with Twist Slow >>>> Fast			
206-226	Gobo 6 (Crossed Bars) Rotate with Twist Slow >>>> Fast			
227-247	Gobo 7 (On the Rock) Rotate with Twist Slow >>>> Fast			
248-255	Open - No Gobo			
16	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
17	Gobo 1 Rot/Index Low Byte		0 - 32756	Rotate Fast to Slow <<<
			32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
18	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22
			0	Open - No Gobo
			1	Gobo 1 (Leafy Breakup)
			2	Gobo 2 (Honeycomb)
			3	Gobo 3 (Radial Breakup)
			4	Gobo 4 (Grid)
			5	Gobo 5 (Circle of dots)
			6	Gobo 6 (Punchcard)
			7	Gobo 7 (Vertical Bars)
			8	Gobo 8 (Medium Circle)
			9	Open - No Gobo
			10 - 13	Gobo 1 (Leafy Breakup) Shake Fast >>>> Slow
			14 - 34	Gobo 2 (Honeycomb) Shake Fast >>>> Slow
			35 - 55	Gobo 3 (Radial Breakup) Shake Fast >>>> Slow
			56 - 76	Gobo 4 (Grid) Shake Fast >>>> Slow
			77 - 97	Gobo 5 (Circle of dots) Shake Fast >>>> Slow
			98 - 118	Gobo 6 (Punchcard) Shake Fast >>>> Slow
119 - 139	Gobo 7 (Vertical bars) Shake Fast >>>> Slow			
140 - 160	Gobo 8 (Medium Circle) Shake Fast >>>> Slow			
161-185	Open - No Gobo			
186 - 216	Gobo Wheel Rotate Clockwise S>>>>F			

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
18	Gobo Wheel 2 (Fixed) <i>continued</i>	0	217-220 221-251 252-255	Stop No Rotation Gobo Wheel Rotate Counter Clockwise S>>>>>F Stop No Rotation
19	Iris	0	0-255 0 - 200 201 - 255	Iris size control Iris beam size open to closed Iris pulse slow to fast
20	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
21	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
22	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
23	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
24	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
25	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
26	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
27	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
28	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
29	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 Index/Rot High Byte	32767	0 - 65535 0 - 32756	16-bit control of prism rotation and index. Rotate Fast to Slow <<<
31	Prism Index/Rot Low Byte		32757 - 32780 32781 - 65535	Rotation STOP Rotate Slow to Fast >>>
32	Frost	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
33	Strobe / Shutter	33	0 - 5 6 - 11 12 - 87 88 - 93 94 - 169 170 - 245 246 - 251 252 - 255	Shutter Closed Shutter Open (Default 33) Strobe Slow>>>>>>>Fast Strobe Open Strobe Random Slow>>>>>>>Fast Strobe Random Sync Slow>>>>>>>Fast Shutter Open Reserved
34	Programmers Channel	0	0-40 41 - 45 46 - 50 51 - 55 56 - 60 61 - 65	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Reserved Values Dimmer Snap On

**TABLE 3. CLONE**

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
34	Programmers Channel <i>continued</i>	0	66 - 70	Dimmer Snap Off (Default)
			71 - 75	Reserved Values
			76 - 80	Edge Tracking on
			81 - 85	Edge tracking off (Default)
			86 - 90	Reserved Values
			91 - 95	Color Snap off (Default)
			96 - 100	Color Snap on (de-activates color timing channel)
			101 - 105	Reserved Values
			106 - 110	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
			136 - 140	Reserved Values
			141 - 145	Reserved Values
			146 - 150	Reserved Values
			151 - 155	Reserved Values
			156 - 160	Reserved Values
35	Luminaire Control	0	0 - 255	Control Channel used for full fixture settings lamp controls. Set discrete value of desired effect then set value to 0 (Idle).
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal - Also Used to Wake fixture up from shutdown
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 35	Reserved Values
			36 - 40	Reserved Values
			41 - 45	Reserved Values
			46 - 50	Reserved Values
			51 - 55	Reserved Values
			56 - 60	Reserved Values
			61 - 65	Reserved Values
			66 - 70	Reserved Values
			71 - 75	Reserved Values
			76 - 80	Display On
			81 - 85	Display Off
			86 - 90	Status Check (Turn UI Screen Green if fixture has no Error - Red if Error)
			91 - 95	Reserved Values
96 - 100	Reserved Values			
101 - 105	Reserved Values			
106 - 110	Boost Mode - Fixture output increase with Higher fan speed			

**TABLE 3. CLONE**

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
35	Luminaire Control <i>continued</i>	0	111 - 115	Standard Mode -
			116 - 120	Studio Mode - Reduced output with lower fan
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
			136 - 140	Fan On (Default) (Continuous spin rate)
			141 - 145	Fan Auto (Variable spin rate based on LED temperature)
			146 - 150	Reserved Values
			151 - 155	ReCal Position
			156 - 160	ReCal Color
			161 - 165	ReCal Beam
			166 - 170	ReCal Optics
			171-175	ReCal Gobo
			176 - 180	Reset fixture to default
181 - 255	Reserved Values			

**TABLE 4. COLOR WHEEL**

COLOR SLOT	COLOR	CIE 1931		16-BIT MODE DMX RANGE	CENTER	CLONE MODE DMX STEP	DMX VARIABLE	CENTER
		X	Y					
1	VL RED			32-63	48	9	48-68	58
2	Dark Blue			64-95	80	15	69-89	79
3	Yellow			96-127	112	21	90-110	100
4	Kelly Green			128-159	144	27	111-131	121
5	Amber			160-191	176	33	132-152	142
6	Congo Blue			192-223	208	39	153-173	163

**TABLE 5. CONTROL CHANNEL**

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI
0 - 255	Control Channel	Used for full fixture settings lamp controls and miscellaneous modes. Set discrete value of desired effect wait >3 seconds, then set value to 0 (Idle).		N/A		
0 - 5	Idle (Default)	Default value used as return point to activate all control functions	N/A			
6 - 10	Full Luminaire ReCal	Recalibrates all mechanical functions and sensor within the fixture; also used to Wake fixture up from shutdown	N/A			
11 - 15	Fixture Shutdown	Shuts down all fixture output and turns off all fans - fixture is activated by power cycle or ReCal command	Fixture wakes	Fixture wakes	Fixture wakes	Fixture wakes
16 - 20	Reserved Values		N/A			
21 - 25	Display - Menu ON	Switches UI display backlight on remotely - Display will Time out from on after 5 mins	N/A	N/A	N/A	N/A
26 - 30	Display - Menu OFF		N/A	N/A	N/A	N/A
31 - 35	Tungsten Dimming On	Remote switches Tungsten Dimming color shift on	Hold Setting	Hold Setting	Resets to Default	Resets to Default

TABLE 5. CONTROL CHANNEL

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI
36 - 40	Tungsten Dimming Off (Default)	Remote switches Tungsten Dimming color shift off	Hold Setting	Hold Setting	Resets to Default	Resets to Default
41 - 45	Dimming Curve Linear	Selects Linear Dimming Curve Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
46 - 50	Dimming Curve S-Curve	Selects S-Law Dimming Curve; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
51 - 55	Dimming Curve Square Curve (Default)**	Selects Square -Law Dimming Curve; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
56 - 60	Reserved Values					
61 - 65	Dimmer Snap On	Allows for fastest output changes between levels but reduces smoothness dimming LED; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
66 - 70	Dimmer Snap Off (Default)	Ensures all fades between output levels remain smooth and flicker free limits fast instant snaps between levels; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
71 - 75	Reserved Values		N/A			
76 - 80	Display On	Remote activation of User interface display back light - on for 10 mins	N/A			
81 - 85	Display Off	Display off switches off display before time out	N/A			
86 - 90	Status Check	Activates status check - Green activates and show green for 5 mins if no errors present; Show red if fixture is reporting and error	N/A			
91 - 95	Color Calibration on	Turns Color calibration on for fixture to fixture color matching on all mixed and preset colors between fixtures limits highest output and max saturation on some colors	Hold Setting	Hold Setting	Resets to Default	Resets to Default
96 - 100	Color Calibration off (Default)	Turns Color calibration off fixtures may not match fixture to fixture offers highest output and deepest saturation of color	Hold Setting	Hold Setting	Resets to Default	Resets to Default
101 - 105	Reserved Values		N/A			
106 - 110	Boost Mode	Boost mode - LED output boosted to >120% of standard output fan speeds increased manage heat level of LED (may be limited to only run for XXhrs) NC45 - NC55 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default
111 - 115	Standard Mode - Fixture operates at maximum output (Default)	Standard mode - Full LED Output + Full Continuous Fan Spin at top speed (loudest setting) (Fan remain at a constant speed and do not ramp up and down) NC40 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default



**TABLE 5. CONTROL CHANNEL**

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI
116 - 120	Studio Mode - Reduced output with lower fan settings	Studio Mode - Fan speed reduced to appropriate amount to reduce dB levels >10% of full speed + LED @ max output approximately 80% of Standard output at appropriate level to ensure LED work at optimum temperature and output efficiency (fan speed remains at a constant speed and do not ramp up or down) NC35 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default
121 - 125	Reserved		N/A	N/A	N/A	N/A
126 - 130	Reserved Values		Hold Setting	Hold Setting	Resets to Default	Resets to Default
131 - 135	Reserved Values		N/A	N/A	N/A	N/A
136 - 140	Fan On (Default)	Fans run at continuous speed for either Boost or standard mode in isolation to the LED operating temperature	Hold Setting	Hold Setting	Resets to Default	Resets to Default
141 - 145	Fan Auto	Fans will reduce / increase speed on demand based on LED operating temperature for either standard or studio mode	Hold Setting	Hold Setting	Resets to Default	Resets to Default
146 - 150	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default
151 - 155	ReCal Position	Recalibration of Positions	N/A	Hold Setting	Resets to Default	Resets to Default
156 - 160	ReCal Color	Recalibration of color system	N/A	Hold Setting	Resets to Default	Resets to Default
161 - 165	ReCal Beam	Recalibration of all Beam function	N/A	Hold Setting	Resets to Default	Resets to Default
166 - 170	Recal Optics	Recalibration of optical system	N/A	Hold Setting	Resets to Default	Resets to Default
171 - 175	Reset fixture to default	Will reset all parameters to default with the exception of the Mx address; fixture mode and Pixel / Zone selection	N/A	N/A	N/A	N/A
176 - 255	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default

**TABLE 6. PROGRAMMER'S CHANNEL, DEFAULT 0**

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
		Functions do not require 3 second DMX rule. mode will change once DMX level is reached					
0-40	Idle	Default channel level	N/A	N/A			N/A
41 - 45	Dimming Curve Linear	Selects Linear Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
46 - 50	Dimming Curve S-Curve	Selects S-Law Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
51 - 55	Dimming Curve Square Curve (Default)**	Selects Square -Law Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
56 - 60	Reserved Values						

**TABLE 6. PROGRAMMER'S CHANNEL, DEFAULT 0**

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
61 - 65	Dimmer Snap On	Allows for fastest output changes between levels but reduces smoothness dimming LED	Hold setting	Hold setting	Resets to default	Resets to default	Yes
66 - 70	Dimmer Snap Off (Default)	Ensures all fades between output levels remain smooth and flicker free limits fast instant snaps between levels	Hold setting	Hold setting	Resets to default	Resets to default	Yes
71 - 75	Reserved Values		N/A				N/A
76 - 80	Edge Tracking on	Auto run focus with zoom to hold a closer focus when changing image sizes use zoom; wil lreduce speed of zoom “	Hold setting	Hold setting	Resets to default	Resets to default	N/A
81 - 85	Edge tracking off (Default)	Deactivates edge tracking zoom runs at full speed	Hold setting	Hold setting	Resets to default	Resets to default	N/A
86 - 90	Reserved Values						
91 - 95	Color Snap off (Default)	Deactivates Color snap					
96 - 100	Color Snap on	on 0 - 100% comanads sent from a console in 0 time the wheel spins backwards to go form open to full saturation (de-activates colr timing channel)					
101 - 105	Reserved Values						
106 - 110	Reserved Values						
111 - 115	Reserved Values						
116 - 120	Reserved Values						
121 - 125	Reserved Values						
126 - 130	Reserved Values						
131 - 135	Reserved Values						
136 - 140	Reserved Values						
141 - 145	Reserved Values						
146 - 150	Reserved Values						
151 - 155	Reserved Values						
156 - 160	Reserved Values						
161 - 165	Reserved Values						
166 - 170	Reserved Values						
171 - 175	Reserved Values						
176 - 255	Reserved Values						

**TABLE 7. TIMING CHANNEL**

DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)
0		Full Speed	48	19	9.6	96		28
1		0.2	49		9.8	97	38	28
2		0.4	50		10	98		29
3	1	0.6	51	20	10.2	99	39	29
4		0.8	52		10.4	100		29
5	2	1	53		10.6	101		30
6		1.2	54	21	11	102	40	30
7		1.4	55		11	103		30
8	3	1.6	56	22	12	104		31
9		1.8	57		12	105	41	31
10	4	2	58		13	106		32
11		2.2	59	23	13	107	42	32
12		2.4	60		14	108		32
13	5	2.6	61	24	14	109		33
14		2.8	62		14	110	43	33
15	6	3	63		15	111		34
16		3.2	64	25	15	112	44	34
17		3.4	65		16	113		34
18	7	3.6	66	26	16	114		35
19		3.8	67		16	115	45	35
20	8	4	68		17	116		36
21		4.2	69	27	17	117	46	36
22		4.4	70		18	118		36
23	9	4.6	71	28	18	119		37
24		4.8	72		18	120	47	37
25	10	5	73		19	121		38
26		5.2	74	29	19	122	48	38
27		5.4	75		20	123		38
28	11	5.6	76	30	20	124		39
29		5.8	77		20	125	49	39
30		6	78		21	126		39
31	12	6.2	79	31	21	127		40
32		6.4	80		21	128	50	40
33	13	6.6	81		22	129		41
34		6.8	82	32	22	130	51	41
35		7	83		23	131		41
36	14	7.2	84	33	23	132		42
37		7.4	85		23	133	52	42
38	15	7.6	86		24	134		43
39		7.8	87	34	24	135	53	43
40		8	88		25	136		43
41	16	8.2	89	35	25	137		44
42		8.4	90		25	138	54	44
43	17	8.6	91		26	139		45
44		8.8	92	36	26	140	55	45
45		9	93		27	141		45
46	18	9.2	94	37	27	142		46
47		9.4	95		27	143	56	46

**TABLE 7. TIMING CHANNEL**

DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)
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			
180		65	227	89	210			
181	71	65	228		210			
182		65	229		220			
183		70	230	90	220			
184	72	70	231		230			
185		75	232	91	230			
186	73	75	233		230			
187		75	234		240			
188		80	235	92	240			
189	74	80	236		250			
190		85	237	93	250			

**TABLE 8. QUICK REFERENCE DMX**

DMX	16-BIT ENHANCED	16-BIT	CLONE MODE
1	Intensity High	Intensity High	Intensity High
2	Intensity Low	Intensity Low	Intensity Low
3	Pan High	Pan High	Pan High
4	Pan Low	Pan Low	Pan Low
5	Tilt High	Tilt High	Tilt High
6	Tilt Low	Tilt Low	Tilt Low
7	Focus High	Focus High	Focus High
8	Focus Low	Focus Low	Focus Low
9	Zoom High	Zoom High	Zoom High
10	Cyan	Cyan	Cyan
11	Yellow	Yellow	Yellow
12	Magenta	Magenta	Magenta
13	CTO	CTO	CTO
14	Color Wheel	Color Wheel	Color Wheel
15	Color Wheel Control	Color Wheel Control	Gobo Wheel 1
16	Gobo Wheel 1	Gobo Wheel 1	Gobo 1 Rot/Index High
17	Gobo 1 Rot/Index High	Gobo 1 Rot/Index High	Gobo 1 Rot/Index Low
18	Gobo 1 Rot/Index Low	Gobo 1 Rot/Index Low	Gobo Wheel 2
19	Gobo Wheel 1 Control	Gobo Wheel 1 Control	Iris
20	Gobo Wheel 2	Gobo Wheel 2	Frame 1A
21	Gobo Wheel 2 Control	Gobo Wheel 2 Control	Frame 1B
22	Iris	Iris	Frame 2A
23	Frame 1A	Frame 1A	Frame 2B
24	Frame 1B	Frame 1B	Frame 3A
25	Frame 2A	Frame 2A	Frame 3B
26	Frame 2B	Frame 2B	Frame 4A
27	Frame 3A	Frame 3A	Frame 4B
28	Frame 3B	Frame 3B	Frame Rotate
29	Frame 4A	Frame 4A	Triangular Prism
30	Frame 4B	Frame 4B	Prism Index/Rot High
31	Frame Rotate	Frame Rotate	Prism Index/Rot Low
32	Triangular Prism	Triangular Prism	Frost
33	Prism Index/Rot High	Prism Index/Rot High	Strobe / Shutter
34	Prism Index/Rot Low	Prism Index/Rot Low	Programmers Channel
35	Frost	Frost	Luminaire Control
36	Strobe Speed	Strobe Speed	
37	Strobe Control	Strobe Control	
38	Programmers Channel	Programmers Channel	
39	Focus Timing	Fan Control	
40	Optics Timing	Luminaire Control	
41	Color Timing		
42	Beam Timing		
43	Gobo Timing		
44	Fan Control		
45	Luminaire Control		
46			
47			
48			