

TABLE 1. VL1600 PROFILE 16-BIT MODE AND 16-BIT MODE ENHANCED

DMX CHANNEL		PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
16-BIT ENHANCED	16-BIT				
1	1	Intensity High	0	0-65536	16-bit control of Dimming
2	2	Intensity Low			
3	3	Pan High	32768	0-65536	540° Total Pan Rotation
4	4	Pan Low			
5	5	Tilt High	32768	0-65536	270° Total Tilt
6	6	Tilt Low			
7	7	Focus High	32768	0-65536	Focus control Default value 50% Focus range
8	8	Focus Low			
9	9	Zoom High	32768	0-65536	Zoom control Default value 50% zoom range
10	10	Zoom Low			
11	11	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
12	12	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
13	13	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
14	14	Variable CCT	127	0 - 255	Variable control for Source CTO, with preset levels 3200K @ 0 7200K @ 255
15	15	Color Wheel	0	0 - 255	8-bit control of Color Wheel. (spin speed slow to fast from control channel) 0 -16 Open Center 0 17 -47 Red Center 32 48 -79 Dark Blue Center 64 80 -111 Yellow Center 96 112 -143 Kelly Green Center 128 144 -175 Fuchsia Center 160 176 -207 Amber Center 192 208 -239 Congo Blue Center 224 240 -255 Open Center 255
16	16	Color Wheel Control	0	0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 56 57 - 87 88 - 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

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17	17	Color Presets (Mixed from CYM)	0	0 - 10 11 - 14 15 - 18 19 - 22 23 - 26 27 - 30	Preset premixed and user defined color presets Color presets take priority over CYM & Color wheel levels - CTO remains active Note due to the limitations of DMX it is not possible to fade between color presets Channel off Color mixing / color wheel takes priority User Preset 1 User Preset 2 User Preset 3 User Preset 4 User Preset 5
17	17	Color Presets (Mixed from CYM) continued	0	31 - 34 35 - 38 39 - 42 43 - 46 47 - 50 51 - 54 55 - 58 59 - 62 63 - 66 67 - 70 71 - 74 75 - 78 79 - 82 83 - 86 87 - 90 91 - 255	User Preset 6 User Preset 7 User Preset 8 User Preset 9 User Preset 10 User Preset 11 User Preset 12 User Preset 13 User Preset 14 User Preset 15 User Preset 16 User Preset 17 User Preset 18 User Preset 19 User Preset 20 Channel OFF Color Mixing takes priority. Color presets take priority over CYM & Color wheel levels Note due to the limitations of DMX it is not possible to fade between color presets.

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18	18	Gobo Wheel 1 (Rotating)	0	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 - 255	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Interchangeable glass gobos Open - No Gobo Leafy Break up Index Alpha Waves Index Lattice Index Night Sky Index Swirl Index Dust Breakup Index Honeycomb Reversed Index Open - No Gobo Leafy Break up Rotate Alpha Waves Rotate Lattice Rotate Night Sky Rotate Swirl Rotate Dust Breakup Rotate Honeycomb Reverse Rotate Open - No Gobo Leafy Break up Mega Stepping Alpha Waves Mega Stepping Lattice Mega Stepping Night Sky Mega Stepping Swirl Mega Stepping Dust Breakup Mega Stepping Honeycombe Reversed Mega Stepping Reserved Values
19	19	Gobo 1 Rot/ Index High Byte	32768	0 - 65536	16-bit control of index and rotation of gobo wheel 1.
20	20	Gobo 1 Rot/ Index Low Byte		0 - 32756 32757 - 32780 32781 - 65536	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>

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21	21	Gobo Wheel 1 Control	0	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 1 (Channel 17) Gobo Selection using shortest (quickest) path. Gobo Selection using normal (longest) path. Reserved Values Wheel Spin CW Forward (Fast to Slow) Wheel Spin STOP Wheel Spin CCW Reverse (Slow to Fast) Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0 Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0 Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0 Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0 Reserved Values
22	22	VL*FX Wheel (Gobo Wheel 2)	0	0-255	VL*FX Wheel image selection, continuous channel range for varied effects
				0 - 0	Open No Gobo Center 0
				1 - 21	On the Rocks Index Center 11
				22 - 42	Fiery Sun Prismatic Index Center 32
				43 - 63	Triangle Breakup Index Center 53
				64 - 84	Earth Tones Index Center 74
				85 - 85	Open - No Gobo Center 85
				86 - 106	On the Rocks Rotation Center 96
				107 - 127	Fiery Sun Prismatic Rotation Center 117
				128 - 148	Triangle Breakup Rotation Center 138
				149 - 169	Earth Tones Rotation Center 159
				170 - 170	Open No Gobo Center 170
				171 - 191	On the Rocks Mega Stepping Center 181
192 - 212	Fiery Sun Prismatic Mega Stepping Center 202				
213 - 233	Triangle Breakup Mega Stepping Center 223				
234 - 255	Earth Tones Mega Stepping Center 244				
23	23	VL*FX Wheel (Gobo Wheel 2) High Byte	32768	0 - 65536	16-bit control of index and rotation of gobo wheel 1.
24	24	VL*FX Wheel (Gobo Wheel 2) Low Byte		0 - 32756 32757 - 32780 32781 - 65536	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>

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25	25	VL*FX Control (Gobo Wheel 2)	0	0 - 255 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 2 (Channel 21) Gobo Selection using shortest (quickest) path. Gobo Selection using normal (longest) path. Reserved Values Wheel Spin CW Forward (Fast to Slow) Wheel Spin STOP Wheel Spin CCW Reverse (Slow to Fast) Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0 Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0 Reserved Values Reserved Values Reserved Values
26	26	Iris	0	0-255 0 - 200 201 - 255	Iris size control Iris beam size open to closed Iris pulse slow to fast
27	27	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open (0) to Full (255).
28	28	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open (0) to Full (255).
29	29	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open (0) to Full (255).
30	30	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open (0) to Full (255).
31	31	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open (0) to Full (255).
32	32	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open (0) to Full (255).
33	33	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open (0) to Full (255).
34	34	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open (0) to Full (255).
35	35	Frame Rotate	127	0 - 255	Controls Framing Shutter mechanism from +/- 90°
36	36	VARI-Frost (Variable Frost)	0	0 - 255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
37	37	Strobe / Shutter	9	0 - 5 6 - 11 12 - 87 88 - 93 94 - 169 170 - 245 246 - 251 252 - 255	Shutter Closed Shutter Open (Default 9) Strobe Slow>>>>>>>Fast Shutter Open Strobe Random Slow>>>>>>>Fast Strobe Random Sync Slow>>>>>>>Fast Shutter Open Reserved

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44	39	Variable Fan Control	0	0-4 05 - 255	Dynamically control fan speed vs LED Output operation. Deactivated LED preset modes take priority of max fan speed and output* Linear control of fan speed and LED max output* DMX 5 =Highest Fan Speed (Standard mode)** DMX 255 = Lowest Fan Speed (Whisper mode)** *Standard mode only. function is de-activated if Studio, Whisper or Silent modes are selected via DMX or User Interface **Fan Auto or continuous running set via UI or control channel independently Max fan speed in AUTO or ON will not exceed set levels from variable Fan control or LED Output presets ***Access to Silent mode is only possible via control channel or user interface
45	40	Luminaire Control	0	0 - 0 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	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). 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 Status Check (Turn UI Screen Green if fixture has no Error - Red if Error) Reserved Values Reserved Values Record User Color Preset Delete last User Color Preset Standard Mode (Default) - Variable fan channel active Studio Mode - LED OUTPUT Preset Whisper Mode - LED OUTPUT Preset Silent Mode - LED OUTPUT Preset Reserved Values Fan On (Default) (Continuous spin rate - max speed set by output mode / ch44)

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45	40	Luminaire Control (continued)	0	141 - 145 146 - 150 151 - 155 156 - 160 161 - 165 166 - 170 171-175 176 - 180 181 - 186 187 - 255	Fan Auto (Fan spin rate set by LED temp - max speed set buy output mode / ch44) Reserved Values ReCal Position ReCal Color ReCal Beam ReCal Optics ReCal Gobo Reset fixture to default Record Manual Preset Reserved Values