Vari-Lite

VL1600 Profile



Manufacturer	**Vari-Lite**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**40, 45 channels**
Beam angle	**7-48°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**305 × 533 × 254 mm**
GDTF fixture type	**D24EB09D-ED51-11EC-9744-52…**

Controls

Focus · Frost · Iris · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions · Strobe

DMX modes

16Bit Mode	40 ch
16Bit Enhanced	45 ch

16Bit Mode

40 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Pan	127	
4	Pan Fine	255	Fine byte of Pan
5	Tilt	127	
6	Tilt Fine	255	Fine byte of Tilt
7	Focus	127	
8	Focus Fine	255	Fine byte of Focus
9	Zoom	127	
10	Zoom Fine	255	Fine byte of Zoom
11	Cyan	0	
12	Yellow	0	
13	Magenta	0	
14	C TC	127	
15	Color Wheel	0	0–16 Open - Color (wheel slot 1) 17–47 Red - Color (wheel slot 2) 48–79 Dark Blue - Color (wheel slot 3) 80–111 Yellow - Color (wheel slot 4) 112–143 Kelly Green - Color (wheel slot 5) 144–175 Fuchsia - Color (wheel slot 6) 176–207 Amber - Color (wheel slot 7) 208–239 Congo Blue - Color (wheel slot 8) 240–255 Open - Color (wheel slot 1)
16	Color1Mode	0	0–5 Linear Movement Using Shortest (Quickest) Path - Cust... 6–10 Linear Movement Using Normal (Longest) Path - Cust... 11–15 Wheel Spin CW - Rotate CW 16–20 Stop - Stop Loop 21–25 Wheel Spin CCW - Rotate CCW 26–56 Col Shake Quickest Path S > F - Gobo Shake 57–87 Col Shake Normal Path S > F - Gobo Shake 88–255 Reserved - Custom
17	Color Macro1	0	0–10 Channel Off - Custom 11–14 User Preset 1 - Macro 15–18 User Preset 2 - Macro 19–22 User Preset 3 - Macro 23–26 User Preset 4 - Macro 27–30 User Preset 5 - Macro 31–34 User Preset 6 - Macro 35–38 User Preset 7 - Macro 39–42 User Preset 8 - Macro 43–46 User Preset 9 - Macro 47–50 User Preset 10 - Macro 51–54 User Preset 11 - Macro 55–58 User Preset 12 - Macro 59–62 User Preset 13 - Macro 63–66 User Preset 14 - Macro 67–70 User Preset 15 - Macro 71–74 User Preset 16 - Macro 75–78 User Preset 17 - Macro 79–82 User Preset 18 - Macro 83–86 User Preset 19 - Macro 87–90 User Preset 20 - Macro 91–255 Channel Off Color Mixing Takes Priority - Macro

16Bit Mode (continued)

Ch	Function	Default	DMX values
18	Gobo	0	0–5 Open - Gobo Open (wheel slot 1) 6–10 Gobo 1 Index - Gobo (wheel slot 2) 11–15 Gobo 2 Index - Gobo (wheel slot 3) 16–20 Gobo 3 Index - Gobo (wheel slot 4) 21–25 Gobo 4 Index - Gobo (wheel slot 5) 26–30 Gobo 5 Index - Gobo (wheel slot 6) 31–35 Gobo 6 Index - Gobo (wheel slot 7) 36–40 Gobo 7 Index - Gobo (wheel slot 8) 41–45 Open - Gobo Open (wheel slot 1) 46–50 Gobo 1 Rotate - Gobo Rotate (wheel slot 2) 51–55 Gobo 2 Rotate - Gobo Rotate (wheel slot 3) 56–60 Gobo 3 Rotate - Gobo Rotate (wheel slot 4) 61–65 Gobo 4 Rotate - Gobo Rotate (wheel slot 5) 66–70 Gobo 5 Rotate - Gobo Rotate (wheel slot 6) 71–75 Gobo 6 Rotate - Gobo Rotate (wheel slot 7) 76–80 Gobo 7 Rotate - Gobo Rotate (wheel slot 8) 81–85 Open - Gobo Open (wheel slot 1) 86–90 Gobo 1 Rotate W/ Mega Stepping - Gobo Rotate (wh... 91–95 Gobo 2 Rotate W/ Mega Stepping - Gobo Rotate (wh... 96–100 Gobo 3 Rotate W/ Mega Stepping - Gobo Rotate (w... 101–105 Gobo 4 Rotate W/ Mega Stepping - Gobo Rotate (w... 106–110 Gobo 5 Rotate W/ Mega Stepping - Gobo Rotate (w... 111–115 Gobo 6 Rotate W/ Mega Stepping - Gobo Rotate (w... 116–120 Gobo 7 Rotate W/ Mega Stepping - Gobo Rotate (w... 121–255 Reserved - Custom
19	Gobo Rotation	128	0–127 Indexing - Indexing 128–128 Stop - Stop Loop 129–255 S > F - Rotate CW
20	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
21	Gobo1Wheel Mode	0	0–5 Gobo Sel Using Shortest Path - Custom 6–10 Gobo Sel Using Normal Path - Custom 11–20 Reserved - Custom 21–50 Wheel Spin CW F > S - Rotate CW 51–60 Stop - Stop Loop 61–90 Wheel Spin CCW S > F - Rotate CCW 91–120 Gobo Shake Quickest Path S > F - Gobo Shake 121–150 Gobo Shake Normal Path S > F - Gobo Shake 151–180 Gobo Twist Quickest Path S > F - Gobo Shake 181–210 Gobo Twist Normal Path S > F - Gobo Shake 211–255 Reserved - Custom
22	Gobo 2	0	0–0 Gobo Open - Gobo Open (wheel slot 1) 1–21 Gobo 1 - Gobo (wheel slot 2) 22–42 Gobo 2 - Gobo (wheel slot 3) 43–63 Gobo 3 - Gobo (wheel slot 4) 64–84 Gobo 4 - Gobo (wheel slot 5) 85–85 Gobo Open - Gobo Open (wheel slot 1) 86–106 Gobo 1 Rotate - Gobo Rotate (wheel slot 2) 107–127 Gobo 2 Rotate - Gobo Rotate (wheel slot 3) 128–148 Gobo 3 Rotate - Gobo Rotate (wheel slot 4) 149–169 Gobo 4 Rotate - Gobo Rotate (wheel slot 5) 170–170 Gobo Open - Gobo Open (wheel slot 1) 171–191 Gobo 1 Mega Stepping - Gobo Rotate (wheel slot 2) 192–212 Gobo 2 Mega Stepping - Gobo Rotate (wheel slot 3) 213–233 Gobo 3 Mega Stepping - Gobo Rotate (wheel slot 4) 234–255 Gobo 4 Mega Stepping - Gobo Rotate (wheel slot 5)
23	Gobo Rotation	128	0–127 Indexing - Indexing 128–128 Stop - Stop Loop 129–255 S > F - Rotate CW
24	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

16Bit Mode (continued)

Ch	Function	Default	DMX values
25	Gobo2Wheel Mode	0	0–5 Gobo Sel Using Shortest Path - Custom 6–10 Gobo Sel Using Normal Path - Custom 11–20 Reserved - Custom 21–50 Wheel Spin CW F > S - Rotate CW 51–60 Stop - Stop Loop 61–90 Wheel Spin CCW S > F - Rotate CCW 91–120 Gobo Shake Quickest Path S > F - Gobo Shake 121–150 Gobo Shake Normal Path S > F - Gobo Shake 151–180 Gobo Twist Quickest Path S > F - Gobo Shake 181–210 Gobo Twist Normal Path S > F - Gobo Shake 211–255 Reserved - Custom
26	Iris	0	0–200 Open > Closed - Iris 201–255 Pulse S > F - Iris
27	Blade1A	0	
28	Blade1B	0	
29	Blade2A	0	
30	Blade2B	0	
31	Blade3A	0	
32	Blade3B	0	
33	Blade4A	0	
34	Blade4B	0	
35	Blade1Rot	127	
36	Frost1	0	
37	Shutter / Strobe	0	0–5 Open - Shutter Open 6–11 Closed - Shutter Closed 12–87 Strobe S > F - Strobe 88–93 Shutter Open - Shutter Open 94–169 Strobe Random S > F - Strobe Random 170–245 Random Sync - Strobe Random 246–251 Shutter Open - Shutter Open 252–255 Reserved - Custom
38	Control1	0	0–40 Idle - Custom 41–45 Dimmer Curve Linear - Custom 46–50 Dimmer Curve S-Curve - Custom 51–55 Dimmer Curve Square Curve - Custom 56–60 Dimmer Snap On - Custom 61–65 Dimmer Snap Off - Custom 66–255 Reserved - Custom
39	Fans	0	0–4 Aut Fan/Output Adj - Custom 5–255 Highest > Lowest - Custom
40	Function	0	0–5 Idle - Custom 6–10 Full Luminaire Recal - Reset 11–15 Fixture Shutdown - Custom 16–20 Reserved - Custom 21–25 Display - Menu On - Custom 26–30 Display - Menu Off - Custom 31–85 Reserved - Custom 86–90 Status Check - Custom 91–100 Reserved - Custom 101–105 Record User Color Preset - Custom 106–110 Delete Last User Color Preset - Custom 111–115 Standard Mode - Custom 116–120 Studio Mode - Custom 121–125 Whisper Mode - Custom 126–130 Silent Mode - Custom 131–135 Reserved - Custom 136–255 Fan On - Custom

16Bit Enhanced

45 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Pan	127	
4	Pan Fine	255	Fine byte of Pan
5	Tilt	127	
6	Tilt Fine	255	Fine byte of Tilt
7	Focus	127	
8	Focus Fine	255	Fine byte of Focus
9	Zoom	127	
10	Zoom Fine	255	Fine byte of Zoom
11	Cyan	0	
12	Yellow	0	
13	Magenta	0	
14	C TC	127	
15	Color Wheel	0	0–16 Open - Color (wheel slot 1) 17–47 Red - Color (wheel slot 2) 48–79 Dark Blue - Color (wheel slot 3) 80–111 Yellow - Color (wheel slot 4) 112–143 Kelly Green - Color (wheel slot 5) 144–175 Fuchsia - Color (wheel slot 6) 176–207 Amber - Color (wheel slot 7) 208–239 Congo Blue - Color (wheel slot 8) 240–255 Open - Color (wheel slot 1)
16	Color1Mode	0	0–5 Linear Movement Using Shortest (Quickest) Path - Cust... 6–10 Linear Movement Using Normal (Longest) Path - Cust... 11–15 Wheel Spin CW - Rotate CW 16–20 Stop - Stop Loop 21–25 Wheel Spin CCW - Rotate CCW 26–56 Col Shake Quickest Path S > F - Gobo Shake 57–87 Col Shake Normal Path S > F - Gobo Shake 88–255 Reserved - Custom
17	Color Macro1	0	0–10 Channel Off - Custom 11–14 User Preset 1 - Macro 15–18 User Preset 2 - Macro 19–22 User Preset 3 - Macro 23–26 User Preset 4 - Macro 27–30 User Preset 5 - Macro 31–34 User Preset 6 - Macro 35–38 User Preset 7 - Macro 39–42 User Preset 8 - Macro 43–46 User Preset 9 - Macro 47–50 User Preset 10 - Macro 51–54 User Preset 11 - Macro 55–58 User Preset 12 - Macro 59–62 User Preset 13 - Macro 63–66 User Preset 14 - Macro 67–70 User Preset 15 - Macro 71–74 User Preset 16 - Macro 75–78 User Preset 17 - Macro 79–82 User Preset 18 - Macro 83–86 User Preset 19 - Macro 87–90 User Preset 20 - Macro 91–255 Channel Off Color Mixing Takes Priority - Macro

16Bit Enhanced (continued)

Ch	Function	Default	DMX values
18	Gobo	0	0–5 Open - Gobo Open (wheel slot 1) 6–10 Gobo 1 Index - Gobo (wheel slot 2) 11–15 Gobo 2 Index - Gobo (wheel slot 3) 16–20 Gobo 3 Index - Gobo (wheel slot 4) 21–25 Gobo 4 Index - Gobo (wheel slot 5) 26–30 Gobo 5 Index - Gobo (wheel slot 6) 31–35 Gobo 6 Index - Gobo (wheel slot 7) 36–40 Gobo 7 Index - Gobo (wheel slot 8) 41–45 Open - Gobo Open (wheel slot 1) 46–50 Gobo 1 Rotate - Gobo Rotate (wheel slot 2) 51–55 Gobo 2 Rotate - Gobo Rotate (wheel slot 3) 56–60 Gobo 3 Rotate - Gobo Rotate (wheel slot 4) 61–65 Gobo 4 Rotate - Gobo Rotate (wheel slot 5) 66–70 Gobo 5 Rotate - Gobo Rotate (wheel slot 6) 71–75 Gobo 6 Rotate - Gobo Rotate (wheel slot 7) 76–80 Gobo 7 Rotate - Gobo Rotate (wheel slot 8) 81–85 Open - Gobo Open (wheel slot 1) 86–90 Gobo 1 Rotate W/ Mega Stepping - Gobo Rotate (wh... 91–95 Gobo 2 Rotate W/ Mega Stepping - Gobo Rotate (wh... 96–100 Gobo 3 Rotate W/ Mega Stepping - Gobo Rotate (w... 101–105 Gobo 4 Rotate W/ Mega Stepping - Gobo Rotate (w... 106–110 Gobo 5 Rotate W/ Mega Stepping - Gobo Rotate (w... 111–115 Gobo 6 Rotate W/ Mega Stepping - Gobo Rotate (w... 116–120 Gobo 7 Rotate W/ Mega Stepping - Gobo Rotate (w... 121–255 Reserved - Custom
19	Gobo Rotation	128	0–127 Indexing - Indexing 128–128 Stop - Stop Loop 129–255 S > F - Rotate CW
20	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
21	Gobo1Wheel Mode	0	0–5 Gobo Sel Using Shortest Path - Custom 6–10 Gobo Sel Using Normal Path - Custom 11–20 Reserved - Custom 21–50 Wheel Spin CW F > S - Rotate CW 51–60 Stop - Stop Loop 61–90 Wheel Spin CCW S > F - Rotate CCW 91–120 Gobo Shake Quickest Path S > F - Gobo Shake 121–150 Gobo Shake Normal Path S > F - Gobo Shake 151–180 Gobo Twist Quickest Path S > F - Gobo Shake 181–210 Gobo Twist Normal Path S > F - Gobo Shake 211–255 Reserved - Custom
22	Gobo 2	0	0–0 Gobo Open - Gobo Open (wheel slot 1) 1–21 Gobo 1 - Gobo (wheel slot 2) 22–42 Gobo 2 - Gobo (wheel slot 3) 43–63 Gobo 3 - Gobo (wheel slot 4) 64–84 Gobo 4 - Gobo (wheel slot 5) 85–85 Gobo Open - Gobo Open (wheel slot 1) 86–106 Gobo 1 Rotate - Gobo Rotate (wheel slot 2) 107–127 Gobo 2 Rotate - Gobo Rotate (wheel slot 3) 128–148 Gobo 3 Rotate - Gobo Rotate (wheel slot 4) 149–169 Gobo 4 Rotate - Gobo Rotate (wheel slot 5) 170–170 Gobo Open - Gobo Open (wheel slot 1) 171–191 Gobo 1 Mega Stepping - Gobo Rotate (wheel slot 2) 192–212 Gobo 2 Mega Stepping - Gobo Rotate (wheel slot 3) 213–233 Gobo 3 Mega Stepping - Gobo Rotate (wheel slot 4) 234–255 Gobo 4 Mega Stepping - Gobo Rotate (wheel slot 5)
23	Gobo Rotation	128	0–127 Indexing - Indexing 128–128 Stop - Stop Loop 129–255 S > F - Rotate CW
24	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

16Bit Enhanced (continued)

Ch	Function	Default	DMX values
25	Gobo2Wheel Mode	0	0–5 Gobo Sel Using Shortest Path - Custom 6–10 Gobo Sel Using Normal Path - Custom 11–20 Reserved - Custom 21–50 Wheel Spin CW F > S - Rotate CW 51–60 Stop - Stop Loop 61–90 Wheel Spin CCW S > F - Rotate CCW 91–120 Gobo Shake Quickest Path S > F - Gobo Shake 121–150 Gobo Shake Normal Path S > F - Gobo Shake 151–180 Gobo Twist Quickest Path S > F - Gobo Shake 181–210 Gobo Twist Normal Path S > F - Gobo Shake 211–255 Reserved - Custom
26	Iris	0	0–200 Open > Closed - Iris 201–255 Pulse S > F - Iris
27	Blade1A	0	
28	Blade1B	0	
29	Blade2A	0	
30	Blade2B	0	
31	Blade3A	0	
32	Blade3B	0	
33	Blade4A	0	
34	Blade4B	0	
35	Blade1Rot	127	
36	Frost1	0	
37	Shutter / Strobe	0	0–5 Open - Shutter Open 6–11 Closed - Shutter Closed 12–87 Strobe S > F - Strobe 88–93 Shutter Open - Shutter Open 94–169 Strobe Random S > F - Strobe Random 170–245 Random Sync - Strobe Random 246–251 Shutter Open - Shutter Open 252–255 Reserved - Custom
38	Control1	0	0–40 Idle - Custom 41–45 Dimmer Curve Linear - Custom 46–50 Dimmer Curve S-Curve - Custom 51–55 Dimmer Curve Square Curve - Custom 56–60 Dimmer Snap On - Custom 61–65 Dimmer Snap Off - Custom 66–255 Reserved - Custom
39	Position MSpeed	255	
40	Focus MSpeed	255	
41	Color Mix MSpeed	255	
42	Global MSpeed	255	
43	Gobo Wheel1MSpeed	255	
44	Fans	0	0–4 Aut Fan/Output Adj - Custom 5–255 Highest > Lowest - Custom

16Bit Enhanced (continued)

Ch	Function	Default	DMX values
45	Function	0	0–5 Idle - Custom 6–10 Full Luminaire Recal - Reset 11–15 Fixture Shutdown - Custom 16–20 Reserved - Custom 21–25 Display - Menu On - Custom 26–30 Display - Menu Off - Custom 31–85 Reserved - Custom 86–90 Status Check - Custom 91–100 Reserved - Custom 101–105 Record User Color Preset - Custom 106–110 Delete Last User Color Preset - Custom 111–115 Standard Mode - Custom 116–120 Studio Mode - Custom 121–125 Whisper Mode - Custom 126–130 Silent Mode - Custom 131–135 Reserved - Custom 136–255 Fan On - Custom