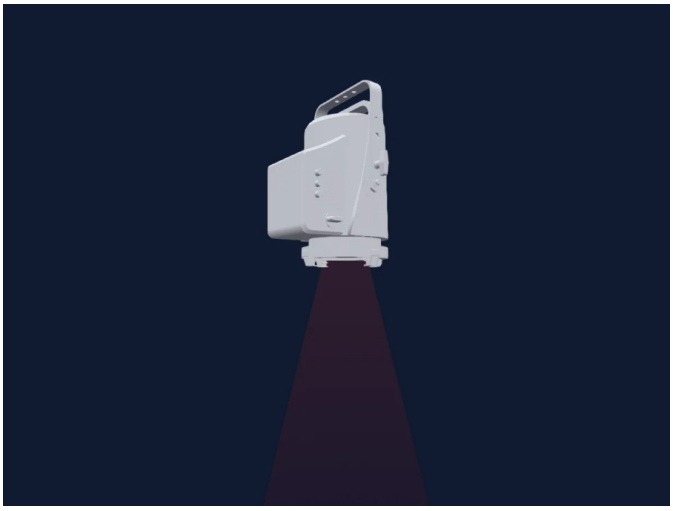
Vari-Lite

Fresnel FC



Manufacturer	**Vari-Lite**
Type	**Spot**
DMX modes	**3**
DMX footprint	**4, 14, 18 channels**
Beam angle	**29.25°**
Size (W × H × D)	**330 × 305 × 76 mm**
GDTF fixture type	**06E58910-E363-11EA-ABC8-52…**

Controls

CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer

Safety-relevant functions

Fixture reset · Service functions · Strobe

DMX modes

SQCC Mode	4 ch
SSCC Mode	14 ch
SOCC Mode	18 ch

SQCC Mode

4 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Shutter / Strobe	0	0–9 Open - Shutter Open 10–99 Strobe S > F - Strobe 100–109 Open - Shutter Open 110–179 Lighting Strobe S > F - Strobe 180–189 Open - Shutter Open 190–255 Strobe Random S > F - Strobe Random
4	Color Wheel	0	0–10 Color Off - Custom 11–14 Moroccan Pink - Color (wheel slot 1) 15–18 Pink - Color (wheel slot 2) 19–22 Flesh Pink - Color (wheel slot 3) 23–26 Bright Rose - Color (wheel slot 4) 27–30 Follies Pink - Color (wheel slot 5) 31–34 Fuchsia Pink - Color (wheel slot 6) 35–38 Surprise Pink - Color (wheel slot 7) 39–42 Congo Blue - Color (wheel slot 8) 43–46 Blue - Color (wheel slot 9) 47–50 Virgin Blue - Color (wheel slot 10) 51–54 Midnight Maya - Color (wheel slot 11) 55–58 Double C T Blue - Color (wheel slot 12) 59–62 Slate Blue - Color (wheel slot 13) 63–66 Regal Blue - Color (wheel slot 14) 67–70 Full C T Blue - Color (wheel slot 15) 71–74 Steel Blue - Color (wheel slot 16) 75–78 Lighter Blue - Color (wheel slot 17) 79–82 Cyan - Color (wheel slot 18) 83–86 Marine Blue - Color (wheel slot 19) 87–90 Soft Green - Color (wheel slot 20) 91–94 Moss Green - Color (wheel slot 21) 95–98 Green - Color (wheel slot 22) 99–102 Fem Green - Color (wheel slot 23) 103–106 JAS Green - Color (wheel slot 24) 107–110 Pale Green - Color (wheel slot 25) 111–114 Spring Yellow - Color (wheel slot 26) 115–118 Yellow - Color (wheel slot 27) 119–122 Deep Amber - Color (wheel slot 28) 123–126 Chrome Orange - Color (wheel slot 29) 127–130 Orange - Color (wheel slot 30) 131–134 Magenta - Color (wheel slot 31) 135–138 Flame Red - Color (wheel slot 32) 139–142 Purple - Color (wheel slot 33) 143–146 User Preset 1 - Macro 147–150 User Preset 2 - Macro 151–154 User Preset 3 - Macro 155–158 User Preset 4 - Macro 159–162 User Preset 5 - Macro 163–166 User Preset 6 - Macro 167–170 User Preset 7 - Macro 171–174 User Preset 8 - Macro 175–178 User Preset 9 - Macro 179–182 User Preset 10 - Macro 183–186 User Preset 11 - Macro 187–190 User Preset 12 - Macro 191–194 User Preset 13 - Macro 195–198 User Preset 14 - Macro 199–202 User Preset 15 - Macro 203–206 User Preset 16 - Macro 207–210 User Preset 17 - Macro 211–218 User Preset 18 - Macro 219–222 User Preset 20 - Macro 223–255 Channel Off - Custom

SSCC Mode

14 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Shutter / Strobe	0	0–9 Open - Shutter Open 10–99 Strobe S > F - Strobe 100–109 Open - Shutter Open 110–179 Lighting Strobe S > F - Strobe 180–189 Open - Shutter Open 190–255 Strobe Random S > F - Strobe Random
4	Color Wheel	0	0–10 Color Off - Custom 11–14 Moroccan Pink - Color (wheel slot 1) 15–18 Pink - Color (wheel slot 2) 19–22 Flesh Pink - Color (wheel slot 3) 23–26 Bright Rose - Color (wheel slot 4) 27–30 Follies Pink - Color (wheel slot 5) 31–34 Fuchsia Pink - Color (wheel slot 6) 35–38 Surprise Pink - Color (wheel slot 7) 39–42 Congo Blue - Color (wheel slot 8) 43–46 Blue - Color (wheel slot 9) 47–50 Virgin Blue - Color (wheel slot 10) 51–54 Midnight Maya - Color (wheel slot 11) 55–58 Double C T Blue - Color (wheel slot 12) 59–62 Slate Blue - Color (wheel slot 13) 63–66 Regal Blue - Color (wheel slot 14) 67–70 Full C T Blue - Color (wheel slot 15) 71–74 Steel Blue - Color (wheel slot 16) 75–78 Lighter Blue - Color (wheel slot 17) 79–82 Cyan - Color (wheel slot 18) 83–86 Marine Blue - Color (wheel slot 19) 87–90 Soft Green - Color (wheel slot 20) 91–94 Moss Green - Color (wheel slot 21) 95–98 Green - Color (wheel slot 22) 99–102 Fem Green - Color (wheel slot 23) 103–106 JAS Green - Color (wheel slot 24) 107–110 Pale Green - Color (wheel slot 25) 111–114 Spring Yellow - Color (wheel slot 26) 115–118 Yellow - Color (wheel slot 27) 119–122 Deep Amber - Color (wheel slot 28) 123–126 Chrome Orange - Color (wheel slot 29) 127–130 Orange - Color (wheel slot 30) 131–134 Magenta - Color (wheel slot 31) 135–138 Flame Red - Color (wheel slot 32) 139–142 Purple - Color (wheel slot 33) 143–146 User Preset 1 - Macro 147–150 User Preset 2 - Macro 151–154 User Preset 3 - Macro 155–158 User Preset 4 - Macro 159–162 User Preset 5 - Macro 163–166 User Preset 6 - Macro 167–170 User Preset 7 - Macro 171–174 User Preset 8 - Macro 175–178 User Preset 9 - Macro 179–182 User Preset 10 - Macro 183–186 User Preset 11 - Macro 187–190 User Preset 12 - Macro 191–194 User Preset 13 - Macro 195–198 User Preset 14 - Macro 199–202 User Preset 15 - Macro 203–206 User Preset 16 - Macro 207–210 User Preset 17 - Macro 211–218 User Preset 18 - Macro 219–222 User Preset 20 - Macro 223–255 Channel Off - Custom

SSCC Mode (continued)

Ch	Function	Default	DMX values
5	Fans	0	0–4 Fan - Custom 5–255 S > F - Speed
6	Control1	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 31–35 Tungsten Dimming On - Custom 36–40 Tungsten Dimming Off - Custom 41–45 Dimming Curve Linear - Dimmer 46–50 Dimming Curve S-Curve - Dimmer 51–55 Dimming Curve Square Law - Dimmer 56–60 Reserved - Custom 61–65 Dimmer Snap On - Speed 66–70 Dimmer Snap Off - Speed 71–90 Reserved - Custom 91–95 Color Calibration On - Reset 96–100 Color Callbration Off - Custom 101–110 No Func - Custom 111–115 Standard Mode - Custom 116–120 Studio Mode - Custom 121–125 Whisper Mode - Custom 126–135 Reserved - Custom 136–140 Fan On - Custom 141–145 Fan Auto - Custom 146–150 Reserved - Custom 151–155 Record Color Preset - Custom 156–170 Reserved - Custom 171–175 Reset Fixture To Default - Reset 176–255 Reserved - Custom
7	Cyan	0	
8	Cyan Fine	0	Fine byte of Cyan
9	Yellow	0	
10	Yellow Fine	0	Fine byte of Yellow
11	Magenta	0	
12	Magenta Fine	0	Fine byte of Magenta
13	C TC	75	0–24 1800K - CTC 25–49 2700K - CTC 50–74 3000K - CTC 75–99 3200K - CTC 100–124 4000K - CTC 125–149 4500K - CTC 150–174 5000K - CTC 175–199 5600K - CTC 200–224 6500K - CTC 225–249 8000K - CTC 250–250 10000K - CTC 251–255 Reserved - Custom
14	Color Mix Mode	0	0–10 No Func - Custom 11–29 Full Minus Green - Color 30–69 -99% > -1% - Color 70–129 No Func - Custom 130–189 1% > 99% - Color 190–255 Full Plus Green - Color

SOCC Mode

18 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Shutter / Strobe	0	0–9 Open - Shutter Open 10–99 Strobe S > F - Strobe 100–109 Open - Shutter Open 110–179 Lighting Strobe S > F - Strobe 180–189 Open - Shutter Open 190–255 Strobe Random S > F - Strobe Random
4	Color Wheel	0	0–10 Color Off - Custom 11–14 Moroccan Pink - Color (wheel slot 1) 15–18 Pink - Color (wheel slot 2) 19–22 Flesh Pink - Color (wheel slot 3) 23–26 Bright Rose - Color (wheel slot 4) 27–30 Follies Pink - Color (wheel slot 5) 31–34 Fuchsia Pink - Color (wheel slot 6) 35–38 Surprise Pink - Color (wheel slot 7) 39–42 Congo Blue - Color (wheel slot 8) 43–46 Blue - Color (wheel slot 9) 47–50 Virgin Blue - Color (wheel slot 10) 51–54 Midnight Maya - Color (wheel slot 11) 55–58 Double C T Blue - Color (wheel slot 12) 59–62 Slate Blue - Color (wheel slot 13) 63–66 Regal Blue - Color (wheel slot 14) 67–70 Full C T Blue - Color (wheel slot 15) 71–74 Steel Blue - Color (wheel slot 16) 75–78 Lighter Blue - Color (wheel slot 17) 79–82 Cyan - Color (wheel slot 18) 83–86 Marine Blue - Color (wheel slot 19) 87–90 Soft Green - Color (wheel slot 20) 91–94 Moss Green - Color (wheel slot 21) 95–98 Green - Color (wheel slot 22) 99–102 Fem Green - Color (wheel slot 23) 103–106 JAS Green - Color (wheel slot 24) 107–110 Pale Green - Color (wheel slot 25) 111–114 Spring Yellow - Color (wheel slot 26) 115–118 Yellow - Color (wheel slot 27) 119–122 Deep Amber - Color (wheel slot 28) 123–126 Chrome Orange - Color (wheel slot 29) 127–130 Orange - Color (wheel slot 30) 131–134 Magenta - Color (wheel slot 31) 135–138 Flame Red - Color (wheel slot 32) 139–142 Purple - Color (wheel slot 33) 143–146 User Preset 1 - Macro 147–150 User Preset 2 - Macro 151–154 User Preset 3 - Macro 155–158 User Preset 4 - Macro 159–162 User Preset 5 - Macro 163–166 User Preset 6 - Macro 167–170 User Preset 7 - Macro 171–174 User Preset 8 - Macro 175–178 User Preset 9 - Macro 179–182 User Preset 10 - Macro 183–186 User Preset 11 - Macro 187–190 User Preset 12 - Macro 191–194 User Preset 13 - Macro 195–198 User Preset 14 - Macro 199–202 User Preset 15 - Macro 203–206 User Preset 16 - Macro 207–210 User Preset 17 - Macro 211–218 User Preset 18 - Macro 219–222 User Preset 20 - Macro 223–255 Channel Off - Custom

SOCC Mode (continued)

Ch	Function	Default	DMX values
5	Fans	0	0–4 Fan - Custom 5–255 S > F - Speed
6	Control1	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 31–35 Tungsten Dimming On - Custom 36–40 Tungsten Dimming Off - Custom 41–45 Dimming Curve Linear - Dimmer 46–50 Dimming Curve S-Curve - Dimmer 51–55 Dimming Curve Square Law - Dimmer 56–60 Reserved - Custom 61–65 Dimmer Snap On - Speed 66–70 Dimmer Snap Off - Speed 71–90 Reserved - Custom 91–95 Color Calibration On - Reset 96–100 Color Callbration Off - Custom 101–110 No Func - Custom 111–115 Standard Mode - Custom 116–120 Studio Mode - Custom 121–125 Whisper Mode - Custom 126–135 Reserved - Custom 136–140 Fan On - Custom 141–145 Fan Auto - Custom 146–150 Reserved - Custom 151–155 Record Color Preset - Custom 156–170 Reserved - Custom 171–175 Reset Fixture To Default - Reset 176–255 Reserved - Custom
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	0	
14	Color Add RY Fine	0	Fine byte of Color Add RY
15	Color Add GY	0	
16	Color Add GY Fine	0	Fine byte of Color Add GY
17	Color Add C	0	
18	Color Add C Fine	0	Fine byte of Color Add C