LPL

Beam 281



Manufacturer	**LPL**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**16, 20 channels**
Beam angle	**3.8°**
Pan range	**540°**
Tilt range	**250°**
Size (W × H × D)	**221 × 278 × 200 mm**
GDTF fixture type	**534E4D16-EF68-4889-8C4A-20…**

Controls

Focus · Frost · Prism · Prism rotation · Colour wheel · Strobe · Dimmer · Movement speed · Gobos

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

Standard	16 ch
Vector	20 ch

Standard

16 channels

Ch	Function	Default	DMX values
1	Color Wheel	0	0–4 White->White+Red (wheel slot 1) 5–8 White+Red->Red (wheel slot 2) 9–12 Red->Red+Orange (wheel slot 2) 13–17 Red+Orange->Orange (wheel slot 3) 18–21 Orange->Orange+Aquamarine (wheel slot 3) 22–25 Orange+Aquamarine->Aquamarine (wheel slot 4) 26–29 Aquamarine->Aquamarine+Deep Green (wheel slot 4) 30–34 Aquamarine+Deep Green->Deep Green (wheel slot 5) 35–38 Deep Green->Deep Green+Light Green (wheel slot 5) 39–42 Deep Green+Light Green->Light Green (wheel slot 6) 43–46 Light Green->Light Green+Lavender (wheel slot 6) 47–51 Light Green+Lavender->Lavender (wheel slot 7) 52–55 Lavender->Lavender+Pink (wheel slot 7) 56–59 Lavender+Pink->Pink (wheel slot 8) 60–63 Pink->Pink+Yellow (wheel slot 8) 64–68 Pink+Yellow->Yellow (wheel slot 9) 69–72 Yellow->Yellow+Magenta (wheel slot 9) 73–76 Yellow+Magenta->Magenta (wheel slot 10) 77–81 Magenta->Magenta+Cyan (wheel slot 10) 82–85 Magenta+Cyan->Cyan (wheel slot 11) 86–89 Cyan->Cyan+CTO 260 (wheel slot 11) 90–93 Cyan+CTO 260->CTO 260 (wheel slot 12) 94–98 CTO 260->CTO 260+CTO 190 (wheel slot 12) 99–102 CTO 260+CTO 190->CTO 190 (wheel slot 13) 103–106 CTO 190->CTO 190+CTB 8000 (wheel slot 13) 107–110 CTO 190+CTB 8000->CTB 8000 (wheel slot 14) 111–115 CTB 8000->CTB 8000 + Blue (wheel slot 14) 116–119 CTB 8000 + Blue->Blue (wheel slot 15) 120–123 Blue->Blue+White (wheel slot 15) 124–127 Blue+White->White (wheel slot 1) 128–255 Slow to Fast
2	Shutter / Strobe	105	0–3 Closed 4–103 Linear Strobe · Slow To Fast 1–12 Hz (wheel slot 1) 104–107 Open (wheel slot 1) 108–207 Pulse Strobe · Slow To Fast 30–360 Hz (wheel slot 1) 208–212 Open (wheel slot 1) 213–225 Random Strobe · Slow 1–4.47 Hz (wheel slot 1) 226–238 Random Strobe · Medium 4.76–8.24 Hz 239–251 Random Strobe · Fast 8.53–12 Hz 252–255 Open (wheel slot 1)
3	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Standard (continued)

Ch	Function	Default	DMX values
4	Gobo	0	0–3 Open (wheel slot 1) 4–7 Beam 1 (wheel slot 2) 8–11 Beam 2 (wheel slot 3) 12–15 Beam 3 (wheel slot 4) 16–19 Beam 4 (wheel slot 5) 20–23 Beam 5 (wheel slot 6) 24–27 Beam 6 (wheel slot 7) 28–31 Sharpy G07 (wheel slot 8) 32–35 Sharpy G08 (wheel slot 9) 36–39 Sharpy G09 (wheel slot 10) 40–43 Sharpy G10 (wheel slot 11) 44–47 Sharpy G11 (wheel slot 12) 48–51 Sharpy G12 (wheel slot 13) 52–55 Sharpy G13 (wheel slot 14) 56–59 Sharpy G14 (wheel slot 15) 60–63 Sharpy G15 (wheel slot 16) 64–67 Sharpy G16 (wheel slot 17) 68–71 Sharpy G17 (wheel slot 18) 72–113 Fast to Slow 114–117 Stop 118–159 Slow to Fast 160–166 Beam 2 (wheel slot 3) 167–172 Beam 3 (wheel slot 4) 173–179 Beam 4 (wheel slot 5) 180–185 Beam 5 (wheel slot 6) 186–191 Beam 6 (wheel slot 7) 192–198 Sharpy G07 (wheel slot 8) 199–204 Sharpy G08 (wheel slot 9) 205–211 Sharpy G09 (wheel slot 10) 212–217 Sharpy G10 (wheel slot 11) 218–223 Sharpy G11 (wheel slot 12) 224–230 Sharpy G12 (wheel slot 13) 231–236 Sharpy G13 (wheel slot 14) 237–243 Sharpy G14 (wheel slot 15) 244–249 Sharpy G15 (wheel slot 16) 250–255 Sharpy G16 (wheel slot 17)
5	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism Inserted (wheel slot 2)
6	Prism Rotation	0	0–126 Position 0 (wheel slot 3) 127–127 Position 540 (wheel slot 3) 128–190 Fast To Slow (wheel slot 3) 191–192 Stop 193–255 Slow To Fast
7	Frost1	1	0–254 Excluded 255–255 Inserted
8	Focus	0	0–254 Distant (wheel slot 1) 255–255 Near
9	Focus Fine	0	Fine byte of Focus
10	Pan	128	
11	Pan Fine	0	Fine byte of Pan
12	Tilt	128	
13	Tilt Fine	0	Fine byte of Tilt
14	Function	0	0–11 Unused Range 12–24 Fast (wheel slot 1) 25–37 Normal (wheel slot 1) 38–50 Conventional (wheel slot 1) 51–62 Linear (wheel slot 1) 63–255 Free

Standard (continued)

Ch	Function	Default	DMX values
15	Fixture Global Reset	0	0–25 Unused Range 26–76 Effects Reset 77–127 Pan/Tilt Reset 128–255 Complete Reset
16	Lamp Control	0	0–25 Unused Range 26–100 Lamp Off (wheel slot 1) 101–255 Lamp On

Vector

20 channels

Ch	Function	Default	DMX values
1	Color Wheel	0	0–4 White->White+Red (wheel slot 1) 5–8 White+Red->Red (wheel slot 2) 9–12 Red->Red+Orange (wheel slot 2) 13–17 Red+Orange->Orange (wheel slot 3) 18–21 Orange->Orange+Aquamarine (wheel slot 3) 22–25 Orange+Aquamarine->Aquamarine (wheel slot 4) 26–29 Aquamarine->Aquamarine+Deep Green (wheel slot 4) 30–34 Aquamarine+Deep Green->Deep Green (wheel slot 5) 35–38 Deep Green->Deep Green+Light Green (wheel slot 5) 39–42 Deep Green+Light Green->Light Green (wheel slot 6) 43–46 Light Green->Light Green+Lavender (wheel slot 6) 47–51 Light Green+Lavender->Lavender (wheel slot 7) 52–55 Lavender->Lavender+Pink (wheel slot 7) 56–59 Lavender+Pink->Pink (wheel slot 8) 60–63 Pink->Pink+Yellow (wheel slot 8) 64–68 Pink+Yellow->Yellow (wheel slot 9) 69–72 Yellow->Yellow+Magenta (wheel slot 9) 73–76 Yellow+Magenta->Magenta (wheel slot 10) 77–81 Magenta->Magenta+Cyan (wheel slot 10) 82–85 Magenta+Cyan->Cyan (wheel slot 11) 86–89 Cyan->Cyan+CTO 260 (wheel slot 11) 90–93 Cyan+CTO 260->CTO 260 (wheel slot 12) 94–98 CTO 260->CTO 260+CTO 190 (wheel slot 12) 99–102 CTO 260+CTO 190->CTO 190 (wheel slot 13) 103–106 CTO 190->CTO 190+CTB 8000 (wheel slot 13) 107–110 CTO 190+CTB 8000->CTB 8000 (wheel slot 14) 111–115 CTB 8000->CTB 8000 + Blue (wheel slot 14) 116–119 CTB 8000 + Blue->Blue (wheel slot 15) 120–123 Blue->Blue+White (wheel slot 15) 124–127 Blue+White->White (wheel slot 1) 128–255 Slow to Fast
2	Shutter / Strobe	105	0–3 Closed 4–103 Linear Strobe · Slow To Fast 1–12 Hz (wheel slot 1) 104–107 Open (wheel slot 1) 108–207 Pulse Strobe · Slow To Fast 30–360 Hz (wheel slot 1) 208–212 Open (wheel slot 1) 213–225 Random Strobe · Slow 1–4.47 Hz (wheel slot 1) 226–238 Random Strobe · Medium 4.76–8.24 Hz 239–251 Random Strobe · Fast 8.53–12 Hz 252–255 Open (wheel slot 1)
3	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Vector (continued)

Ch	Function	Default	DMX values
4	Gobo	0	0–3 Open (wheel slot 1) 4–7 Beam 1 (wheel slot 2) 8–11 Beam 2 (wheel slot 3) 12–15 Beam 3 (wheel slot 4) 16–19 Beam 4 (wheel slot 5) 20–23 Beam 5 (wheel slot 6) 24–27 Beam 6 (wheel slot 7) 28–31 Sharpy G07 (wheel slot 8) 32–35 Sharpy G08 (wheel slot 9) 36–39 Sharpy G09 (wheel slot 10) 40–43 Sharpy G10 (wheel slot 11) 44–47 Sharpy G11 (wheel slot 12) 48–51 Sharpy G12 (wheel slot 13) 52–55 Sharpy G13 (wheel slot 14) 56–59 Sharpy G14 (wheel slot 15) 60–63 Sharpy G15 (wheel slot 16) 64–67 Sharpy G16 (wheel slot 17) 68–71 Sharpy G17 (wheel slot 18) 72–113 Fast to Slow 114–117 Stop 118–159 Slow to Fast 160–166 Beam 2 (wheel slot 3) 167–172 Beam 3 (wheel slot 4) 173–179 Beam 4 (wheel slot 5) 180–185 Beam 5 (wheel slot 6) 186–191 Beam 6 (wheel slot 7) 192–198 Sharpy G07 (wheel slot 8) 199–204 Sharpy G08 (wheel slot 9) 205–211 Sharpy G09 (wheel slot 10) 212–217 Sharpy G10 (wheel slot 11) 218–223 Sharpy G11 (wheel slot 12) 224–230 Sharpy G12 (wheel slot 13) 231–236 Sharpy G13 (wheel slot 14) 237–243 Sharpy G14 (wheel slot 15) 244–249 Sharpy G15 (wheel slot 16) 250–255 Sharpy G16 (wheel slot 17)
5	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism Inserted (wheel slot 2)
6	Prism Rotation	0	0–126 Position 0 (wheel slot 3) 127–127 Position 540 (wheel slot 3) 128–190 Fast To Slow (wheel slot 3) 191–192 Stop 193–255 Slow To Fast
7	Effects1Pos	0	
8	Frost1	1	0–254 Excluded 255–255 Inserted
9	Focus	0	0–254 Distant (wheel slot 1) 255–255 Near
10	Pan	128	
11	Pan Fine	0	Fine byte of Pan
12	Tilt	128	
13	Tilt Fine	0	Fine byte of Tilt
14	Function	0	0–11 Unused Range 12–24 Fast (wheel slot 1) 25–37 Normal (wheel slot 1) 38–50 Conventional (wheel slot 1) 51–62 Linear (wheel slot 1) 63–255 Free

Vector (continued)

Ch	Function	Default	DMX values
15	Fixture Global Reset	0	0–76 Effects Reset 77–127 Pan/Tilt Reset 128–255 Complete Reset
16	Lamp Control	0	0–25 Unused Range 26–100 Lamp Off (wheel slot 1) 101–255 Lamp On
17	Position MSpeed	0	
18	Color Wheel Select MSpeed	0	
19	Beam Time	0	
20	Gobo Time	0	