DLW

AL 420B IP



Manufacturer	**DLW**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**20, 23, 29 channels**
Beam angle	**1.8°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**240 × 400 × 210 mm**
GDTF fixture type	**36D561FD-DA7A-4B1C-9652-9E…**

Controls

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

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

Mode1-20Ch	20 ch
Mode2-23Ch	23 ch
Mode3-29Ch	29 ch

Mode1-20Ch

20 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Shutter / Strobe	49	0–19 Closed 20–49 Open 50–199 min Strobe 200–200 max Strobe 201–210 Open 2 211–254 Random · min Rnd 1–14.7 Hz 255–255 Random · max Rnd 15 Hz
6	Dimmer	0	0–254 Closed 255–255 Open
7	Dimmer Fine	0	Fine byte of Dimmer
8	Focus	127	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Color Wheel	0	0–70 Color1 1 71–74 Red (wheel slot 2) 75–78 Yellow (wheel slot 3) 79–82 Blue Green (wheel slot 4) 83–86 pink (wheel slot 5) 87–90 Light green (wheel slot 6) 91–94 Yellow green (wheel slot 7) 95–98 Orange (wheel slot 8) 99–106 Plum red (wheel slot 9) 107–110 Blue (wheel slot 10) 111–114 2500k (wheel slot 11) 115–118 3200k (wheel slot 12) 119–122 8000k (wheel slot 13) 123–126 Lilav (wheel slot 14) 127–135 UV (wheel slot 15) 136–136 << 137–194 < 195–195 < 196–196 > 197–254 >> 255–255 >>>

Mode1-20Ch (continued)

Ch	Function	Default	DMX values
13	Gobo	0	0–3 Open (wheel slot 1) 4–7 FG1 (wheel slot 2) 8–11 FG2 (wheel slot 3) 12–15 FG3 (wheel slot 4) 16–18 FG4 (wheel slot 5) 19–22 FG5 (wheel slot 6) 23–26 FG6 (wheel slot 7) 27–30 FG7 (wheel slot 8) 31–34 FG8 (wheel slot 9) 35–37 FG9 (wheel slot 10) 38–41 FG10 (wheel slot 11) 42–45 FG11 (wheel slot 12) 46–49 FG12 (wheel slot 13) 50–53 FG13 (wheel slot 14) 54–56 FG14 (wheel slot 15) 57–60 FG15 (wheel slot 16) 61–64 FG16 (wheel slot 17) 65–68 FG17 (wheel slot 18) 69–71 FG18 (wheel slot 19) 72–77 FG1 Shake (wheel slot 2) 78–83 FG2 Shake (wheel slot 3) 84–89 FG3 Shake (wheel slot 4) 90–95 FG4 Shake (wheel slot 5) 96–101 FG5 Shake (wheel slot 6) 102–107 FG6 Shake (wheel slot 7) 108–113 FG7 Shake (wheel slot 8) 114–119 FG8 Shake (wheel slot 9) 120–125 FG9 Shake (wheel slot 10) 126–131 FG10 Shake (wheel slot 11) 132–137 FG11 Shake (wheel slot 12) 138–143 FG12 Shake (wheel slot 13) 144–149 FG13 Shake (wheel slot 14) 150–155 FG14 Shake (wheel slot 15) 156–161 FG15 Shake (wheel slot 16) 162–167 FG16 Shake (wheel slot 17) 168–172 FG17 Shake (wheel slot 18) 173–173 >>> 174–212 >> 213–213 > 214–214 < 215–254 << 255–255 <<<
14	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism1 (wheel slot 2)
15	Prism Rotation	0	0–126 zero 127–127 max Index 128–128 >>> 129–189 >> 190–190 > 191–192 Stop 193–193 < 194–254 << 255–255 <<<
16	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism2 (wheel slot 3)

Mode1-20Ch (continued)

Ch	Function	Default	DMX values
17	Prism Rotation	0	0–126 zero 127–127 max Index 128–128 >>> 129–189 >> 190–190 > 191–192 Stop 193–193 < 194–254 << 255–255 <<<
18	Function	0	
19	Frost1	0	0–254 Open 255–255 Frost
20	Control1	0	0–9 Normal 10–14 Reset All 15–29 Reset Specific 30–34 Reset P/T 35–39 NoFeature 40–44 Lamp On 45–49 Lamp Off 50–255 NoFeature 1

Mode2-23Ch

23 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	No Feature	0	
6	No Feature	0	
7	Shutter / Strobe	49	0–19 Closed 20–49 Open 50–199 min Strobe 200–200 max Strobe 201–210 Open 2 211–254 Random · min Rnd 1–14.7 Hz 255–255 Random · max Rnd 15 Hz
8	Dimmer	0	0–254 Closed 255–255 Open
9	Dimmer Fine	0	Fine byte of Dimmer
10	Focus	127	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	

Mode2-23Ch (continued)

Ch	Function	Default	DMX values
14	Color Wheel	70	0–70 Color1 1 71–74 Red (wheel slot 2) 75–78 Yellow (wheel slot 3) 79–82 Blue Green (wheel slot 4) 83–86 pink (wheel slot 5) 87–90 Light green (wheel slot 6) 91–94 Yellow green (wheel slot 7) 95–98 Orange (wheel slot 8) 99–106 Plum red (wheel slot 9) 107–110 Blue (wheel slot 10) 111–114 2500k (wheel slot 11) 115–118 3200k (wheel slot 12) 119–122 8000k (wheel slot 13) 123–126 Lilav (wheel slot 14) 127–135 UV (wheel slot 15) 136–136 <<< 137–194 << 195–195 < 196–196 > 197–254 >> 255–255 >>>
15	Dummy	0	
16	Dummy	0	

Mode2-23Ch (continued)

Ch	Function	Default	DMX values
17	Gobo	0	0–3 Open (wheel slot 1) 4–7 FG1 (wheel slot 2) 8–11 FG2 (wheel slot 3) 12–15 FG3 (wheel slot 4) 16–18 FG4 (wheel slot 5) 19–22 FG5 (wheel slot 6) 23–26 FG6 (wheel slot 7) 27–30 FG7 (wheel slot 8) 31–34 FG8 (wheel slot 9) 35–37 FG9 (wheel slot 10) 38–41 FG10 (wheel slot 11) 42–45 FG11 (wheel slot 12) 46–49 FG12 (wheel slot 13) 50–53 FG13 (wheel slot 14) 54–56 FG14 (wheel slot 15) 57–60 FG15 (wheel slot 16) 61–64 FG16 (wheel slot 17) 65–68 FG17 (wheel slot 18) 69–71 FG18 (wheel slot 19) 72–77 FG1 Shake (wheel slot 2) 78–83 FG2 Shake (wheel slot 3) 84–89 FG3 Shake (wheel slot 4) 90–95 FG4 Shake (wheel slot 5) 96–101 FG5 Shake (wheel slot 6) 102–107 FG6 Shake (wheel slot 7) 108–113 FG7 Shake (wheel slot 8) 114–119 FG8 Shake (wheel slot 9) 120–125 FG9 Shake (wheel slot 10) 126–131 FG10 Shake (wheel slot 11) 132–137 FG11 Shake (wheel slot 12) 138–143 FG12 Shake (wheel slot 13) 144–149 FG13 Shake (wheel slot 14) 150–155 FG14 Shake (wheel slot 15) 156–161 FG15 Shake (wheel slot 16) 162–167 FG16 Shake (wheel slot 17) 168–172 FG17 Shake (wheel slot 18) 173–173 >>> 174–212 >> 213–213 > 214–214 < 215–254 << 255–255 <<<
18	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism1 (wheel slot 2)
19	Prism Rotation	0	0–126 zero 127–127 max Index 128–128 >>> 129–189 >> 190–190 > 191–192 Stop 193–193 < 194–254 << 255–255 <<<
20	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism2 (wheel slot 3)

Mode2-23Ch (continued)

Ch	Function	Default	DMX values
21	Prism Rotation	0	0–126 zero 127–127 max Index 128–128 <<< 129–189 << 190–190 < 191–192 Stop 193–193 > 194–254 >> 255–255 >>>
22	Frost1	0	0–254 Open 255–255 Frost
23	Control1	0	0–9 Normal 10–14 Reset All 15–29 Reset Specific 30–34 Reset P/T 35–39 NoFeature 40–44 Lamp On 45–49 Lamp Off 50–255 NoFeature 1

Mode3-29Ch

29 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Shutter / Strobe	49	0–19 Closed 20–49 Open 50–199 min Strobe 200–200 max Strobe 201–210 Open 2 211–254 Random · min Rnd 1–14.7 Hz 255–255 Random · max Rnd 15 Hz
6	Dimmer	0	0–254 Closed 255–255 Open
7	Dimmer Fine	0	Fine byte of Dimmer
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	

Mode3-29Ch (continued)

Ch	Function	Default	DMX values
16	Color Wheel	70	0–70 Color1 1 71–74 Red (wheel slot 2) 75–78 Yellow (wheel slot 3) 79–82 Blue Green (wheel slot 4) 83–86 pink (wheel slot 5) 87–90 Light green (wheel slot 6) 91–94 Yellow green (wheel slot 7) 95–98 Orange (wheel slot 8) 99–106 Plum red (wheel slot 9) 107–110 Blue (wheel slot 10) 111–114 2500k (wheel slot 11) 115–118 3200k (wheel slot 12) 119–122 8000k (wheel slot 13) 123–126 Lilav (wheel slot 14) 127–135 UV (wheel slot 15) 136–136 <<< 137–194 << 195–195 < 196–196 > 197–254 >> 255–255 >>>
17	Gobo	0	0–3 Open (wheel slot 1) 4–7 FG1 (wheel slot 2) 8–11 FG2 (wheel slot 3) 12–15 FG3 (wheel slot 4) 16–19 FG4 (wheel slot 5) 20–23 FG5 (wheel slot 6) 24–27 FG6 (wheel slot 7) 28–31 FG7 (wheel slot 8) 32–35 FG8 (wheel slot 9) 36–39 FG9 (wheel slot 10) 40–43 FG10 (wheel slot 11) 44–47 FG11 (wheel slot 12) 48–51 FG12 (wheel slot 13) 52–55 FG13 (wheel slot 14) 56–59 FG14 (wheel slot 15) 60–63 FG15 (wheel slot 16) 64–67 FG16 (wheel slot 17) 68–71 FG17 (wheel slot 18) 72–77 FG1 Shake (wheel slot 2) 78–83 FG2 Shake (wheel slot 3) 84–89 FG3 Shake (wheel slot 4) 90–95 FG4 Shake (wheel slot 5) 96–101 FG5 Shake (wheel slot 6) 102–107 FG6 Shake (wheel slot 7) 108–113 FG7 Shake (wheel slot 8) 114–119 FG8 Shake (wheel slot 9) 120–125 FG9 Shake (wheel slot 10) 126–131 FG10 Shake (wheel slot 11) 132–137 FG11 Shake (wheel slot 12) 138–143 FG12 Shake (wheel slot 13) 144–149 FG13 Shake (wheel slot 14) 150–155 FG14 Shake (wheel slot 15) 156–161 FG15 Shake (wheel slot 16) 162–167 FG16 Shake (wheel slot 17) 168–172 FG17 Shake (wheel slot 18) 173–173 >>> 174–212 >> 213–213 > 214–214 < 215–254 << 255–255 <<<<

Mode3-29Ch (continued)

Ch	Function	Default	DMX values
18	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism1 (wheel slot 2)
19	Prism Rotation	0	0–126 zero 127–127 max Index 128–128 >>> 129–189 >> 190–190 > 191–192 Stop 193–193 < 194–254 < 255–255 <<<
20	Prism Rotation Fine	0	Fine byte of Prism Rotation
21	Prism	0	0–254 Open (wheel slot 1) 255–255 Prism2 (wheel slot 3)
22	Prism Rotation	0	0–126 zero 127–127 max Index 128–189 << 190–190 < 191–192 Stop 193–193 > 194–254 >> 255–255 >>>
23	Prism Rotation Fine	0	Fine byte of Prism Rotation
24	Frost1	0	0–254 Open 255–255 Frost
25	Control1	0	0–9 Normal 10–14 Reset All 15–29 Reset Specific 30–34 Reset P/T 35–39 NoFeature 40–44 Lamp On 45–49 Lamp Off 50–255 NoFeature 1
26	Position MSpeed	0	
27	Color Mix MSpeed	0	
28	Focus MSpeed	0	
29	Gobo Wheel1MSpeed	0	