Black Light Design

ACME MANA HYBRID (XA 600 BSW IP)



Manufacturer	**Black Light Design**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**24, 30 channels**
Beam angle	**2-45°**
Pan range	**540°**
Tilt range	**260°**
Size (W × H × D)	**263 × 474 × 242 mm**
GDTF fixture type	**5CA41E18-4034-49B7-A7D9-08…**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Strobe

DMX modes

Mode 2 24 DMX	24 ch
Mode 1 30 DMX	30 ch

Mode 2 24 DMX

24 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Tilt	128	
3	P TSpeed	0	
4	Cyan	0	
5	Magenta	0	
6	Yellow	0	
7	C TO	0	
8	Color Wheel	0	0–7 Open (wheel slot 1) 8–18 Color 1 (wheel slot 2) 19–29 Color 2 (wheel slot 3) 30–40 Color 3 (wheel slot 4) 41–51 Color 4 (wheel slot 5) 52–63 Color 5 (wheel slot 6) 64–66 Open 67–69 Open+Col1 70–72 Col 1 73–75 Col 1+Col 2 76–78 Col 2 79–81 Col 2+Col 3 82–84 Col 3 85–87 Col 3+Col 4 88–90 Col 4 91–93 Col 4+Col 5 94–96 Col 5 97–99 Col 5+CRI 100–102 CRI 103–105 CRI+CTB 106–108 CTB 109–111 CTB+Opent 112–127 Open 128–157 << 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >> 255–255 >>>

Mode 2 24 DMX (continued)

Ch	Function	Default	DMX values
9	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 2) 15–21 Gobo 2 (wheel slot 3) 22–28 Gobo 3 (wheel slot 4) 29–35 Gobo 4 (wheel slot 5) 36–42 Gobo 5 (wheel slot 6) 43–49 Gobo 6 (wheel slot 7) 50–56 Gobo 7 (wheel slot 8) 57–63 Gobo 8 (wheel slot 9) 64–71 Gobo 1 Shake (wheel slot 2) 72–79 Gobo 2 Shake (wheel slot 3) 80–87 Gobo 3 Shake (wheel slot 4) 88–95 Gobo 4 Shake (wheel slot 5) 96–103 Gobo 5 Shake (wheel slot 6) 104–111 Gobo 6 Shake (wheel slot 7) 112–119 Gobo 7 Shake (wheel slot 8) 120–127 Gobo 8 Shake (wheel slot 9) 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >>> 255–255 >>>>
10	Gobo Rotation	0	0–127 0--360 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >>> 255–255 >>>>

Mode 2 24 DMX (continued)

Ch	Function	Default	DMX values
11	Gobo 2	0	0–7 Open (wheel slot 1) 8–11 Gobo 1 (wheel slot 2) 12–15 Gobo 2 (wheel slot 3) 16–19 Gobo 3 (wheel slot 4) 20–23 Gobo 4 (wheel slot 5) 24–27 Gobo 5 (wheel slot 6) 28–31 Gobo 6 (wheel slot 7) 32–35 Gobo 7 (wheel slot 8) 36–39 Gobo 8 (wheel slot 9) 40–43 Gobo 9 (wheel slot 10) 44–47 Gobo 10 (wheel slot 11) 48–51 Gobo 11 (wheel slot 12) 52–55 Gobo 12 (wheel slot 13) 56–63 Gobo 13 (wheel slot 14) 64–67 Gobo1Shake (wheel slot 2) 68–71 Gobo2 Shake (wheel slot 3) 72–75 Gobo3 Shake (wheel slot 4) 76–79 Gobo4 Shake (wheel slot 12) 80–83 Gobo5 Shake (wheel slot 5) 84–87 Gobo6 Shake (wheel slot 6) 88–91 Gobo7 Shake (wheel slot 8) 92–95 Gobo8 Shake (wheel slot 9) 96–99 Gobo9 Shake (wheel slot 10) 100–103 Gobo10 Shake (wheel slot 7) 104–107 Gobo11 Shake (wheel slot 11) 108–111 Gobo 12 Shake (wheel slot 13) 112–127 Gobo 13 Shake (wheel slot 14) 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >> 255–255 >>>
12	Animation Wheel1	0	0–7 OFF 8–68 <<< 69–128 << 129–129 < 130–133 Stop 134–194 > 195–254 >> 255–255 >>>
13	Prism	0	0–7 Open (wheel slot 1) 8–255 Prism1 (wheel slot 2)
14	Prism Rotation	0	0–127 0--360 (wheel slot 2) 128–157 <<< (wheel slot 2) 158–188 << (wheel slot 2) 189–189 < (wheel slot 2) 190–193 Stop (wheel slot 2) 194–223 > (wheel slot 2) 224–254 >> (wheel slot 2) 255–255 >>> (wheel slot 2)
15	Prism	0	0–7 Open (wheel slot 1) 8–255 Prism2 (wheel slot 2)

Mode 2 24 DMX (continued)

Ch	Function	Default	DMX values
16	Prism Rotation	0	0–127 0--360 (wheel slot 2) 128–157 <<< (wheel slot 2) 158–188 << (wheel slot 2) 189–189 < (wheel slot 2) 190–193 Stop (wheel slot 2) 194–223 > (wheel slot 2) 224–254 >> (wheel slot 2) 255–255 >>> (wheel slot 2)
17	C RI	0	0–7 Closed 8–255 Open
18	Frost1	0	
19	Frost2	0	
20	Zoom	128	
21	Focus	174	
22	Shutter / Strobe	12	0–7 Closed 8–15 Open 16–130 min Strobe 131–131 max Strobe 132–139 Open 2 140–180 min Pulse Open 181–181 max Pulse Open 182–189 Open 3 190–230 min Pulse Close 231–231 max Pulse Close 232–239 Open 4 240–246 min Strobe Ran 247–247 max Strobe Ran 248–255 Open 5
23	Dimmer	0	

Mode 2 24 DMX (continued)

Ch	Function	Default	DMX values
24	Function	0	0–29 No Feature 1 30–39 Dim Square Law 40–49 Dim Inv Square Law 50–59 Dim Curve Line 60–69 Dim Curve S 70–79 Standard 80–89 Quiet 90–99 No Feature 2 100–109 Frequency Setting 110–119 Frequency Disable 120–122 NoFeature 4 123–123 900HZ 124–124 1000HK 125–125 1100HK 126–126 1200HK 127–127 1300HK 128–128 1400HK 129–129 1500HK 130–130 2500HK 131–131 4000HK 132–132 5000HK 133–133 6000HK 134–134 10K HZ 135–135 15K HZ 136–136 20K HZ 137–137 25K HZ 138–139 NoFeature3 140–149 PT Reset 150–159 Eff Reset 160–199 NoFeature 4 200–209 All Reset 210–219 Dim Fast 220–229 Dim Smooth 230–231 Gobo Enable 232–233 Gobo Disable 234–235 Color Enable 236–237 Color Disable 238–239 CTB Enable 240–241 CTB Disable 242–255 NoFeature 5

Mode 1 30 DMX

30 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	P TSpeed	0	
6	Cyan	0	
7	Magenta	0	
8	Yellow	0	
9	C TO	0	

Mode 1 30 DMX (continued)

Ch	Function	Default	DMX values
10	Color Wheel	0	0–7 Open (wheel slot 1) 8–18 Color 1 (wheel slot 2) 19–29 Color 2 (wheel slot 3) 30–40 Color 3 (wheel slot 4) 41–51 Color 4 (wheel slot 5) 52–63 Color 5 (wheel slot 6) 64–66 Open 67–69 Open+Col1 70–72 Col 1 73–75 Col 1+Col 2 76–78 Col 2 79–81 Col 2+Col 3 82–84 Col 3 85–87 Col 3+Col 4 88–90 Col 4 91–93 Col 4+Col 5 94–96 Col 5 97–99 Col 5+CRI 100–102 CRI 103–105 CRI+CTB 106–108 CTB 109–111 CTB+Opent 112–127 Open 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >>> 255–255 >>>>
11	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 2) 15–21 Gobo 2 (wheel slot 3) 22–28 Gobo 3 (wheel slot 4) 29–35 Gobo 4 (wheel slot 5) 36–42 Gobo 5 (wheel slot 6) 43–49 Gobo 6 (wheel slot 7) 50–56 Gobo 7 (wheel slot 8) 57–63 Gobo 8 (wheel slot 9) 64–71 Gobo 1 Shake (wheel slot 2) 72–79 Gobo 2 Shake (wheel slot 3) 80–87 Gobo 3 Shake (wheel slot 4) 88–95 Gobo 4 Shake (wheel slot 5) 96–103 Gobo 5 Shake (wheel slot 6) 104–111 Gobo 6 Shake (wheel slot 7) 112–119 Gobo 7 Shake (wheel slot 8) 120–127 Gobo 8 Shake (wheel slot 9) 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >>> 255–255 >>>>
12	Gobo Rotation	0	0–127 0--360 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >>> 255–255 >>>>

Mode 1 30 DMX (continued)

Ch	Function	Default	DMX values
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
14	Gobo 2	0	0–7 Open (wheel slot 1) 8–11 Gobo 1 (wheel slot 2) 12–15 Gobo 2 (wheel slot 3) 16–19 Gobo 3 (wheel slot 4) 20–23 Gobo 4 (wheel slot 5) 24–27 Gobo 5 (wheel slot 6) 28–31 Gobo 6 (wheel slot 7) 32–35 Gobo 7 (wheel slot 8) 36–39 Gobo 8 (wheel slot 9) 40–43 Gobo 9 (wheel slot 10) 44–47 Gobo 10 (wheel slot 11) 48–51 Gobo 11 (wheel slot 12) 52–55 Gobo 12 (wheel slot 13) 56–63 Gobo 13 (wheel slot 14) 64–67 Gobo1Shake (wheel slot 2) 68–71 Gobo2 Shake (wheel slot 3) 72–75 Gobo3 Shake (wheel slot 4) 76–79 Gobo4 Shake (wheel slot 12) 80–83 Gobo5 Shake (wheel slot 5) 84–87 Gobo6 Shake (wheel slot 6) 88–91 Gobo7 Shake (wheel slot 8) 92–95 Gobo8 Shake (wheel slot 9) 96–99 Gobo9 Shake (wheel slot 10) 100–103 Gobo10 Shake (wheel slot 7) 104–107 Gobo11 Shake (wheel slot 11) 108–111 Gobo 12 Shake (wheel slot 13) 112–127 Gobo 13 Shake (wheel slot 14) 128–157 <<< 158–188 << 189–189 < 190–193 Stop 194–223 > 224–254 >> 255–255 >>>
15	Animation Wheel1	0	0–7 OFF 8–68 <<< 69–128 << 129–129 < 130–133 Stop 134–194 > 195–254 >> 255–255 >>>
16	Prism	0	0–7 Open (wheel slot 1) 8–255 Prism1 (wheel slot 2)
17	Prism Rotation	0	0–127 0--360 (wheel slot 2) 128–157 <<< (wheel slot 2) 158–188 << (wheel slot 2) 189–189 < (wheel slot 2) 190–193 Stop (wheel slot 2) 194–223 > (wheel slot 2) 224–254 >> (wheel slot 2) 255–255 >>> (wheel slot 2)
18	Prism	0	0–7 Open (wheel slot 1) 8–255 Prism2 (wheel slot 2)

Mode 1 30 DMX (continued)

Ch	Function	Default	DMX values
19	Prism Rotation	0	0–127 0--360 (wheel slot 2) 128–157 <<< (wheel slot 2) 158–188 << (wheel slot 2) 189–189 < (wheel slot 2) 190–193 Stop (wheel slot 2) 194–223 > (wheel slot 2) 224–254 >> (wheel slot 2) 255–255 >>> (wheel slot 2)
20	C RI	0	0–7 Closed 8–255 Open
21	Frost1	0	
22	Frost2	0	
23	Zoom	128	
24	Zoom Fine	128	Fine byte of Zoom
25	Focus	174	
26	Focus Fine	19	Fine byte of Focus
27	Shutter / Strobe	12	0–7 Closed 8–15 Open 16–130 min Strobe 131–131 max Strobe 132–139 Open 2 140–180 min Pulse Open 181–181 max Pulse Open 182–189 Open 3 190–230 min Pulse Close 231–231 max Pulse Close 232–239 Open 4 240–246 min Strobe Ran 247–247 max Strobe Ran 248–255 Open 5
28	Dimmer	0	
29	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 30 DMX (continued)

Ch	Function	Default	DMX values
30	Function	0	0–29 No Feature 1 30–39 Dim Square Law 40–49 Dim Inv Square Law 50–59 Dim Curve Line 60–69 Dim Curve S 70–79 Standard 80–89 Quiet 90–99 No Feature 2 100–109 Frequency Setting 110–119 Frequency Disable 120–122 NoFeature 4 123–123 900HZ 124–124 1000HK 125–125 1100HK 126–126 1200HK 127–127 1300HK 128–128 1400HK 129–129 1500HK 130–130 2500HK 131–131 4000HK 132–132 5000HK 133–133 6000HK 134–134 10K HZ 135–135 15K HZ 136–136 20K HZ 137–137 25K HZ 138–139 NoFeature3 140–149 PT Reset 150–159 Eff Reset 160–199 NoFeature 4 200–209 All Reset 210–219 Dim Fast 220–229 Dim Smooth 230–231 Gobo Enable 232–233 Gobo Disable 234–235 Color Enable 236–237 Color Disable 238–239 CTB Enable 240–241 CTB Disable 242–255 NoFeature 5