ACME

ACME PHOTON HYBRID 500 (XL 500 BSW IP)



Manufacturer	**ACME**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**28, 31 channels**
Beam angle	**0.9-22°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**263 × 498 × 245 mm**
GDTF fixture type	**6C8D5BAC-3BD8-48E0-ACBC-5…**

Controls

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

Safety-relevant functions

Fixture reset

DMX modes

Mode 1 28CH	28 ch
Mode 2 31CH	31 ch

Mode 1 28CH

28 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Cyan	0	
7	Magenta	0	
8	Yellow	0	
9	C TO	0	
10	Color Wheel	0	0–7 Open (wheel slot 1) 8–10 Color 1 (wheel slot 2) 11–13 Color 2 (wheel slot 3) 14–16 Color 3 (wheel slot 4) 17–19 Color 4 (wheel slot 5) 20–22 Color 5 (wheel slot 6) 23–25 Color 6 (wheel slot 7) 26–28 Color 7 (wheel slot 8) 29–31 Color 8 (wheel slot 9) 32–34 Color 9 (wheel slot 10) 35–37 Color 10 (wheel slot 11) 38–40 Color 11 (wheel slot 12) 41–43 Color 12 (wheel slot 13) 44–46 Color 13 (wheel slot 14) 47–49 Color 14 (wheel slot 15) 50–52 Color 15 (wheel slot 16) 53–55 Color 16 (wheel slot 17) 56–63 Color 17 (wheel slot 18) 64–127 Index 128–158 <<< 159–188 << 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>

Mode 1 28CH (continued)

Ch	Function	Default	DMX values
11	Gobo	0	0–7 Open (wheel slot 1) 8–12 Gobo 1 (wheel slot 2) 13–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–27 Gobo 4 (wheel slot 5) 28–32 Gobo 5 (wheel slot 6) 33–37 Gobo 6 (wheel slot 7) 38–42 Gobo 7 (wheel slot 8) 43–47 Gobo 8 (wheel slot 9) 48–52 Gobo 9 (wheel slot 10) 53–57 Gobo 10 (wheel slot 11) 58–63 Gobo 11 (wheel slot 12) 64–68 Gobo 1 shank (wheel slot 2) 69–73 Gobo 2 shank (wheel slot 3) 74–78 Gobo 3 shank (wheel slot 4) 79–83 Gobo 4 shank (wheel slot 5) 84–88 Gobo 5 shank (wheel slot 6) 89–93 Gobo 6 shank (wheel slot 7) 94–98 Gobo 7 shank (wheel slot 8) 99–103 Gobo 8 shank (wheel slot 9) 104–108 Gobo 9 shank (wheel slot 10) 109–113 Gobo 10 shank (wheel slot 11) 114–127 Gobo 11 shank (wheel slot 12) 128–158 << 159–188 << 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
12	Gobo Rotation	0	0–127 Index 128–158 << 159–188 << 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Mode 1 28CH (continued)

Ch	Function	Default	DMX values
14	Gobo 2	0	0–7 Open (wheel slot 1) 8–9 Gobo 1 (wheel slot 2) 10–11 Gobo 2 (wheel slot 3) 12–13 Gobo 3 (wheel slot 4) 14–15 Gobo 4 (wheel slot 5) 16–17 Gobo 5 (wheel slot 6) 18–19 Gobo 6 (wheel slot 7) 20–21 Gobo 7 (wheel slot 8) 22–23 Gobo 8 (wheel slot 9) 24–25 Gobo 9 (wheel slot 10) 26–27 Gobo 10 (wheel slot 11) 28–29 Gobo 11 (wheel slot 12) 30–31 Gobo 12 (wheel slot 13) 32–33 Gobo 13 (wheel slot 14) 34–35 Gobo 14 (wheel slot 15) 36–37 Gobo 15 (wheel slot 16) 38–39 Gobo 16 (wheel slot 17) 40–41 Gobo 17 (wheel slot 18) 42–43 Gobo 18 (wheel slot 19) 44–45 Gobo 19 (wheel slot 20) 46–47 Gobo 20 (wheel slot 21) 48–63 Gobo 21 (wheel slot 22) 64–66 Gobo 1 shank (wheel slot 2) 67–69 Gobo 2 shank (wheel slot 3) 70–72 Gobo 3 shank (wheel slot 4) 73–75 Gobo 4 shank (wheel slot 5) 76–78 Gobo 5 shank (wheel slot 6) 79–81 Gobo 6 shank (wheel slot 7) 82–84 Gobo 7 shank (wheel slot 8) 85–87 Gobo 8 shank (wheel slot 9) 88–90 Gobo 9 shank (wheel slot 10) 91–93 Gobo 10 shank (wheel slot 11) 94–96 Gobo 11 shank (wheel slot 12) 97–99 Gobo 12 shank (wheel slot 13) 100–102 Gobo 13 shank (wheel slot 14) 103–105 Gobo 14 shank (wheel slot 15) 106–108 Gobo 15 shank (wheel slot 16) 109–111 Gobo 16 shank (wheel slot 17) 112–114 Gobo 17 shank (wheel slot 18) 115–117 Gobo 18 shank (wheel slot 19) 118–120 Gobo 19 shank (wheel slot 20) 121–123 Gobo 20 shank (wheel slot 21) 124–127 Gobo 21 shank (wheel slot 22) 128–158 <<< 159–188 << 189–189 < 190–193 Stop 194–224 > 225–254 >>> 255–255 >>>>
15	Prism	0	0–7 Open (wheel slot 1) 8–31 Prism 1 (wheel slot 2) 32–63 Prism 2 (wheel slot 3) 64–95 Prism 3 (wheel slot 4) 96–127 Prism 4 (wheel slot 5) 128–159 Prism 1+P 3 (wheel slot 6) 160–191 Prism 1+P 4 (wheel slot 7) 192–223 Prism 2+P 3 (wheel slot 8) 224–255 Prism 2+P 4 (wheel slot 9)

Mode 1 28CH (continued)

Ch	Function	Default	DMX values
16	Prism Rotation	0	0–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
17	Prism Rotation	0	0–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
18	Frost1	0	
19	Zoom	127	
20	Zoom Fine	127	Fine byte of Zoom
21	Focus	127	
22	Focus Fine	127	Fine byte of Focus
23	Shutter / Strobe	12	0–7 Closed 8–15 Open 16–130 Strobe · Min 0.5–19.8 Hz 131–131 Strobe · Max 20 Hz 132–139 Open 2 140–180 Pulse Open · Min 1–4.9 Hz 181–181 Pulse Open · Max 5 Hz 182–189 Open 3 190–230 Pulse Close · Min 1–4.9 Hz 231–231 Pulse Close · Max 5 Hz 232–239 Open 4 240–246 Strobe Random · Min 2.5–17.5 Hz 247–247 Strobe Random · Max 20 Hz 248–255 Open 5
24	Dimmer	0	
25	Dimmer Fine	0	Fine byte of Dimmer
26	Pan Safety Zone	0	0–7 Null 8–48 Mode Close 49–89 Mode Open 90–130 Set Start Pos 131–171 Save Start Pos 172–212 Set End Pos 213–255 Save End Pos
27	Tilt Safety Zone	0	0–7 Null 8–48 Mode Close 49–89 Mode Open 90–130 Set Start Pos 131–171 Save Start Pos 172–212 Set End Pos 213–255 Save End Pos

Mode 1 28CH (continued)

Ch	Function	Default	DMX values
28	Function	9	0–9 No Function 1 10–11 Demist Mode On 12–13 Demist Mode Off 14–29 No Function 2 30–39 Dim Square Law 40–49 Dim Inv Square Law 50–59 Dim Curve Linear 60–69 Dim Curve S 70–79 Standard 80–89 Quiet 90–99 No Function 1 100–109 Frequency Setting 110–119 Frequency Disable 120–139 No Function 2 140–149 PT Reset 150–159 Eff Reset 160–171 No Function 172–173 Focus Compensate Disable 174–175 Focus Compensate Near(10m) 176–177 Focus Compensate Medium(20m) 178–179 Focus Compensate Far(30m) 180–181 On 182–183 Off 184–199 No Function 3 200–209 All Reset 210–219 Fast 220–229 Smooth 230–231 Enable 232–233 Disable 234–234 Save Point A 235–235 Save Point B 236–236 Save Point C 237–237 Save Point D 238–238 Observe Disable 239–239 Observe Point A 240–240 Observe Point B 241–241 Observe Point C 242–242 Observe Point D 243–243 AUDIENCE AREA ON 244–244 AUDIENCE AREA OFF 245–255 NO Function

Mode 2 31CH

31 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Cyan	0	
7	Cyan Fine	0	Fine byte of Cyan
8	Magenta	0	
9	Magenta Fine	0	Fine byte of Magenta
10	Yellow	0	
11	Yellow Fine	0	Fine byte of Yellow
12	C TO	0	

Mode 2 31CH (continued)

Ch	Function	Default	DMX values
13	Color Wheel	0	0–7 Open (wheel slot 1) 8–10 Color 1 (wheel slot 2) 11–13 Color 2 (wheel slot 3) 14–16 Color 3 (wheel slot 4) 17–19 Color 4 (wheel slot 5) 20–22 Color 5 (wheel slot 6) 23–25 Color 6 (wheel slot 7) 26–28 Color 7 (wheel slot 8) 29–31 Color 8 (wheel slot 9) 32–34 Color 9 (wheel slot 10) 35–37 Color 10 (wheel slot 11) 38–40 Color 11 (wheel slot 12) 41–43 Color 12 (wheel slot 13) 44–46 Color 13 (wheel slot 14) 47–49 Color 14 (wheel slot 15) 50–52 Color 15 (wheel slot 16) 53–55 Color 16 (wheel slot 17) 56–63 Color 17 (wheel slot 18) 64–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
14	Gobo	0	0–7 Open (wheel slot 1) 8–12 Gobo 1 (wheel slot 2) 13–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–27 Gobo 4 (wheel slot 5) 28–32 Gobo 5 (wheel slot 6) 33–37 Gobo 6 (wheel slot 7) 38–42 Gobo 7 (wheel slot 8) 43–47 Gobo 8 (wheel slot 9) 48–52 Gobo 9 (wheel slot 10) 53–57 Gobo 10 (wheel slot 11) 58–63 Gobo 11 (wheel slot 12) 64–68 Gobo 1 shank (wheel slot 2) 69–73 Gobo 2 shank (wheel slot 3) 74–78 Gobo 3 shank (wheel slot 4) 79–83 Gobo 4 shank (wheel slot 5) 84–88 Gobo 5 shank (wheel slot 6) 89–93 Gobo 6 shank (wheel slot 7) 94–98 Gobo 7 shank (wheel slot 8) 99–103 Gobo 8 shank (wheel slot 9) 104–108 Gobo 9 shank (wheel slot 10) 109–113 Gobo 10 shank (wheel slot 11) 114–127 Gobo 11 shank (wheel slot 12) 128–158 <<< 159–188 << 189–189 << 190–193 Stop 194–224 >> 225–254 >>> 255–255 >>>>

Mode 2 31CH (continued)

Ch	Function	Default	DMX values
15	Gobo Rotation	0	0–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
16	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
17	Gobo 2	0	0–7 Open (wheel slot 1) 8–9 Gobo 1 (wheel slot 2) 10–11 Gobo 2 (wheel slot 3) 12–13 Gobo 3 (wheel slot 4) 14–15 Gobo 4 (wheel slot 5) 16–17 Gobo 5 (wheel slot 6) 18–19 Gobo 6 (wheel slot 7) 20–21 Gobo 7 (wheel slot 8) 22–23 Gobo 8 (wheel slot 9) 24–25 Gobo 9 (wheel slot 10) 26–27 Gobo 10 (wheel slot 11) 28–29 Gobo 11 (wheel slot 12) 30–31 Gobo 12 (wheel slot 13) 32–33 Gobo 13 (wheel slot 14) 34–35 Gobo 14 (wheel slot 15) 36–37 Gobo 15 (wheel slot 16) 38–39 Gobo 16 (wheel slot 17) 40–41 Gobo 17 (wheel slot 18) 42–43 Gobo 18 (wheel slot 19) 44–45 Gobo 19 (wheel slot 20) 46–47 Gobo 20 (wheel slot 21) 48–63 Gobo 21 (wheel slot 22) 64–66 Gobo 1 shank (wheel slot 2) 67–69 Gobo 2 shank (wheel slot 3) 70–72 Gobo 3 shank (wheel slot 4) 73–75 Gobo 4 shank (wheel slot 5) 76–78 Gobo 5 shank (wheel slot 6) 79–81 Gobo 6 shank (wheel slot 7) 82–84 Gobo 7 shank (wheel slot 8) 85–87 Gobo 8 shank (wheel slot 9) 88–90 Gobo 9 shank (wheel slot 10) 91–93 Gobo 10 shank (wheel slot 11) 94–96 Gobo 11 shank (wheel slot 12) 97–99 Gobo 12 shank (wheel slot 13) 100–102 Gobo 13 shank (wheel slot 14) 103–105 Gobo 14 shank (wheel slot 15) 106–108 Gobo 15 shank (wheel slot 16) 109–111 Gobo 16 shank (wheel slot 17) 112–114 Gobo 17 shank (wheel slot 18) 115–117 Gobo 18 shank (wheel slot 19) 118–120 Gobo 19 shank (wheel slot 20) 121–123 Gobo 20 shank (wheel slot 21) 124–127 Gobo 21 shank (wheel slot 22) 128–158 <<< 159–188 << 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>

Mode 2 31CH (continued)

Ch	Function	Default	DMX values
18	Prism	0	0–7 Open (wheel slot 1) 8–31 Prism 1 (wheel slot 2) 32–63 Prism 2 (wheel slot 3) 64–95 Prism 3 (wheel slot 4) 96–127 Prism 4 (wheel slot 5) 128–159 Prism 1+P 3 (wheel slot 6) 160–191 Prism 1+P 4 (wheel slot 7) 192–223 Prism 2+P 3 (wheel slot 8) 224–255 Prism 2+P 4 (wheel slot 9)
19	Prism Rotation	0	0–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
20	Prism Rotation	0	0–127 Index 128–158 << 159–188 < 189–189 < 190–193 Stop 194–224 > 225–254 >> 255–255 >>>
21	Frost1	0	
22	Zoom	127	
23	Zoom Fine	127	Fine byte of Zoom
24	Focus	127	
25	Focus Fine	127	Fine byte of Focus
26	Shutter / Strobe	12	0–7 Closed 8–15 Open 16–130 Strobe · Min 0.5–19.8 Hz 131–131 Strobe · Max 20 Hz 132–139 Open 2 140–180 Pulse Open · Min 1–4.9 Hz 181–181 Pulse Open · Max 5 Hz 182–189 Open 3 190–230 Pulse Close · Min 1–4.9 Hz 231–231 Pulse Close · Max 5 Hz 232–239 Open 4 240–246 Strobe Random · Min 2.5–17.5 Hz 247–247 Strobe Random · Max 20 Hz 248–255 Open 5
27	Dimmer	0	
28	Dimmer Fine	0	Fine byte of Dimmer
29	Pan Safety Zone	0	0–7 Null 8–48 Mode Close 49–89 Mode Open 90–130 Set Start Pos 131–171 Save Start Pos 172–212 Set End Pos 213–255 Save End Pos

Mode 2 31CH (continued)

Ch	Function	Default	DMX values
30	Tilt Safety Zone	0	0–7 Null 8–48 Mode Close 49–89 Mode Open 90–130 Set Start Pos 131–171 Save Start Pos 172–212 Set End Pos 213–255 Save End Pos
31	Function	9	0–9 No Function 1 10–11 Demist Mode On 12–13 Demist Mode Off 14–29 No Function 2 30–39 Dim Square Law 40–49 Dim Inv Square Law 50–59 Dim Curve Linear 60–69 Dim Curve S 70–79 Standard 80–89 Quiet 90–99 No Function 1 100–109 Frequency Setting 110–119 Frequency Disable 120–139 No Function 2 140–149 PT Reset 150–159 Eff Reset 160–171 No Function 172–173 Focus Compensate Disable 174–175 Focus Compensate Near(10m) 176–177 Focus Compensate Medium(20m) 178–179 Focus Compensate Far(30m) 180–181 On 182–183 Off 184–199 No Function 3 200–209 All Reset 210–219 Fast 220–229 Smooth 230–231 Enable 232–233 Disable 234–234 Save Point A 235–235 Save Point B 236–236 Save Point C 237–237 Save Point D 238–238 Observe Disable 239–239 Observe Point A 240–240 Observe Point B 241–241 Observe Point C 242–242 Observe Point D 243–243 AUDIENCE AREA ON 244–244 AUDIENCE AREA OFF 245–255 NO Function