Elation

Proteus Rayzor 1960



Manufacturer	**Elation**
Type	**Moving head**
DMX modes	**6**
DMX footprint	**23, 100 channels**
Beam angle	**2-40°**
Pan range	**540°**
Tilt range	**360°**
Heads / cells	**2**
Size (W × H × D)	**426 × 251 × 407 mm**
GDTF fixture type	**DBD4EE12-4773-4662-9EA0-FB…**

Controls

Zoom · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Built-in effect programmes

DMX modes

Standard Pan/Tilt360	23 ch
Standard Pan540/Tilt270	23 ch
Extended Pan/Tilt360	100 ch
Extended Pan540/Tilt270	100 ch
Pixels Pan/Tilt360	100 ch
Pixels Pan540/Tilt270	100 ch

Standard Pan/Tilt360

23 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)

Standard Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–78 Strobe · Slow 0.5–4.79 Hz 79–94 Strobe · Med 5.1–9.69 Hz 95–95 Strobe · Fast 10 Hz 96–110 Pulse Open Slow 111–126 Pulse Open Med 127–127 Pulse Open Fast 128–142 Pulse Close Slow 143–158 Pulse Close Med 159–159 Pulse Close Fast 160–174 Pulse Effects · Slow 0.5–4.79 Hz 175–190 Pulse Effects · Med 5.1–9.69 Hz 191–191 Pulse Effects · Fast 10 Hz 192–206 Random Slow 207–222 Random Med 223–223 Random Fast 255–255 Open
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–214 Wide 215–215 Narrow 216–254 Overdrive Min 255–255 Overdrive Max
14	Control1	0	
15	Color Macro1	0	

Standard Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
16	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
17	Color Macro2	0	
18	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
19	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
20	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

Standard Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
21	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
22	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
23	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

Standard Pan540/Tilt270

23 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	

Standard Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer

Standard Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–214 Wide 215–215 Narrow 216–254 Overdrive Min 255–255 Overdrive Max
14	Control1	0	
15	Color Macro1	0	
16	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
17	Color Macro2	0	
18	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Standard Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
19	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
20	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
21	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
22	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
23	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

Extended Pan/Tilt360

100 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	
6	Tilt Rotate	0	
7	C TO	0	
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	
11	Dimmer Fine	0	Fine byte of Dimmer

Extended Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	
13	Zoom	107	
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	
19	Color Macro2	0	
20	Color Macro2Rate	0	
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	

Extended Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	

Extended Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Reserved 95	0	
96	Reserved 96	0	
97	Reserved 97	0	
98	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 Fast Close Slow Open 128–159 Fast Open Slow Close 160–191 Pulse Effect In Sequences 192–222 Strob All slow to fast 223–254 Random Strob slow to fast 255–255 Sync Dim and Strobe with Main
99	Dimmer	0	
100	Dimmer Fine	0	Fine byte of Dimmer

Extended Pan540/Tilt270

100 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	
6	Tilt Rotate	0	
7	C TO	0	

Extended Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	
13	Zoom	107	
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	
19	Color Macro2	0	

Extended Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
20	Color Macro2Rate	0	
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	

Extended Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	

Extended Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Reserved 95	0	
96	Reserved 96	0	
97	Reserved 97	0	
98	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 Fast Close Slow Open 128–159 Fast Open Slow Close 160–191 Pulse Effect In Sequences 192–222 Strob All slow to fast 223–254 Random Strob slow to fast 255–255 Sync Dim and Strobe with Main
99	Dimmer	0	
100	Dimmer Fine	0	Fine byte of Dimmer

Pixels Pan/Tilt360

100 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	
6	Tilt Rotate	0	
7	C TO	0	

Pixels Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	
13	Zoom	107	
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	
19	Color Macro2	0	

Pixels Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
20	Color Macro2Rate	0	
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	

Pixels Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	

Pixels Pan/Tilt360 (continued)

Ch	Function	Default	DMX values
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Reserved 95	0	
96	Reserved 96	0	
97	Reserved 97	0	
98	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 Fast Close Slow Open 128–159 Fast Open Slow Close 160–191 Pulse Effect In Sequences 192–222 Strob All slow to fast 223–254 Random Strob slow to fast 255–255 Sync Dim and Strobe with Main
99	Dimmer	0	
100	Dimmer Fine	0	Fine byte of Dimmer

Pixels Pan540/Tilt270

100 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	
6	Tilt Rotate	0	
7	C TO	0	

Pixels Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	
13	Zoom	107	
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	
19	Color Macro2	0	

Pixels Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
20	Color Macro2Rate	0	
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	

Pixels Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	

Pixels Pan540/Tilt270 (continued)

Ch	Function	Default	DMX values
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Reserved 95	0	
96	Reserved 96	0	
97	Reserved 97	0	
98	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 Fast Close Slow Open 128–159 Fast Open Slow Close 160–191 Pulse Effect In Sequences 192–222 Strob All slow to fast 223–254 Random Strob slow to fast 255–255 Sync Dim and Strobe with Main
99	Dimmer	0	
100	Dimmer Fine	0	Fine byte of Dimmer