Elation

Proteus Brutus



Manufacturer	**Elation**
Type	**Profile spot**
DMX modes	**8**
DMX footprint	**25, 34, 36, 56 channels**
Beam angle	**5.5-55°**
Pan range	**630°**
Tilt range	**263°**
Size (W × H × D)	**356 × 660 × 305 mm**
GDTF fixture type	**B9DFF544-A098-4400-A4A4-5E…**

Controls

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

Safety-relevant functions

Strobe

DMX modes

Standard Pan540	25 ch
Standard Pan630	25 ch
Framing Standard Pan540	34 ch
Framing Standard Pan630	34 ch
Extended Pan540	36 ch
Extended Pan630	36 ch
Framing Extended Mode Pan630	56 ch
Framing Extended Pan540	56 ch

Standard Pan540

25 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Cyan	0	
6	Magenta	0	
7	Yellow	0	
8	C TO	0	
9	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
10	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
11	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
12	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
13	Focus	127	
14	Focus Fine	255	Fine byte of Focus
15	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide

Standard Pan540 (continued)

Ch	Function	Default	DMX values
16	Zoom Fine	255	Fine byte of Zoom
17	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
18	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
19	Dimmer Fine	0	Fine byte of Dimmer
20	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
21	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
22	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
23	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)

Standard Pan540 (continued)

Ch	Function	Default	DMX values
24	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
25	Control1	0	

Standard Pan630

25 channels

Ch	Function	Default	DMX values
1	Pan	109	
2	Pan Fine	182	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Cyan	0	
6	Magenta	0	
7	Yellow	0	
8	C TO	0	
9	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
10	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr

Standard Pan630 (continued)

Ch	Function	Default	DMX values
11	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
12	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
13	Focus	127	
14	Focus Fine	255	Fine byte of Focus
15	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
16	Zoom Fine	255	Fine byte of Zoom
17	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
18	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
19	Dimmer Fine	0	Fine byte of Dimmer

Standard Pan630 (continued)

Ch	Function	Default	DMX values
20	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
21	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
22	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
23	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)
24	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
25	Control1	0	

Framing Standard Pan540

34 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt

Framing Standard Pan540 (continued)

Ch	Function	Default	DMX values
5	Cyan	0	
6	Magenta	0	
7	Yellow	0	
8	C TO	0	
9	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
10	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
11	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
12	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
13	Focus	127	
14	Focus Fine	127	Fine byte of Focus
15	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
16	Zoom Fine	255	Fine byte of Zoom

Framing Standard Pan540 (continued)

Ch	Function	Default	DMX values
17	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
18	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
19	Dimmer Fine	0	Fine byte of Dimmer
20	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
21	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–224 Pulse Close Slow 225–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
22	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
23	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)

Framing Standard Pan540 (continued)

Ch	Function	Default	DMX values
24	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
25	Blade1A	0	0–254 Open 255–255 Close
26	Blade1B	0	0–254 Open 255–255 Close
27	Blade2A	0	0–254 Open 255–255 Close
28	Blade2B	0	0–254 Open 255–255 Close
29	Blade3A	0	0–254 Open 255–255 Close
30	Blade3B	0	0–254 Open 255–255 Close
31	Blade4A	0	0–254 Open 255–255 Close
32	Blade4B	0	0–254 Open 255–255 Close
33	Shaper Rot	127	0–127 Minimum 128–254 Parallel 255–255 Maximum
34	Control1	0	

Framing Standard Pan630

34 channels

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

Framing Standard Pan630 (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
10	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
11	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
12	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
13	Focus	127	
14	Focus Fine	127	Fine byte of Focus
15	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
16	Zoom Fine	255	Fine byte of Zoom

Framing Standard Pan630 (continued)

Ch	Function	Default	DMX values
17	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
18	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
19	Dimmer Fine	0	Fine byte of Dimmer
20	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
21	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–224 Pulse Close Slow 225–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
22	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
23	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)

Framing Standard Pan630 (continued)

Ch	Function	Default	DMX values
24	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
25	Blade1A	0	0–254 Open 255–255 Close
26	Blade1B	0	0–254 Open 255–255 Close
27	Blade2A	0	0–254 Open 255–255 Close
28	Blade2B	0	0–254 Open 255–255 Close
29	Blade3A	0	0–254 Open 255–255 Close
30	Blade3B	0	0–254 Open 255–255 Close
31	Blade4A	0	0–254 Open 255–255 Close
32	Blade4B	0	0–254 Open 255–255 Close
33	Shaper Rot	127	0–127 Minimum 128–254 Parallel 255–255 Maximum
34	Control1	0	

Extended Pan540

36 channels

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

Extended Pan540 (continued)

Ch	Function	Default	DMX values
13	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel
15	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
16	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Focus	127	
19	Focus Fine	255	Fine byte of Focus
20	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
21	Zoom Fine	255	Fine byte of Zoom
22	Focus1Adjust	0	0–50 Off 51–100 5m 101–150 7_5m 151–200 10m 201–255 15m
23	Focus1Adjust Fine	0	Fine byte of Focus1Adjust

Extended Pan540 (continued)

Ch	Function	Default	DMX values
24	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
25	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
26	Dimmer Fine	0	Fine byte of Dimmer
27	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
28	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
29	Iris Fine	0	Fine byte of Iris
30	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
31	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)

Extended Pan540 (continued)

Ch	Function	Default	DMX values
32	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 Macros Off 32–39 Macro 1 40–47 Macro 2 48–55 Macro 3 56–63 Macro 4 64–71 Macro 5 72–79 Macro 6 80–87 Macro 7 88–95 Macro 8 96–103 Macro 9 104–111 Macro 10 112–119 Macro 11 120–127 Macro 12 128–135 Macro 13 136–143 Macro 14 144–151 Macro 15 152–159 Macro 16 160–167 Macro 17 168–175 Macro 18 176–183 Macro 19 184–191 Macro 20 192–199 Macro 21 200–207 Macro 22 208–215 Macro 23 216–223 Macro 24 224–231 Macro 25 232–239 Macro 26 240–247 Macro 27 248–255 Random CMY
35	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout By Movement 236–255 Blackout By All Wheel Movement
36	Control1	0	

Extended Pan630

36 channels

Ch	Function	Default	DMX values
1	Pan	109	
2	Pan Fine	182	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Cyan	0	
6	Cyan Fine	0	Fine byte of Cyan
7	Magenta	0	
8	Magenta Fine	0	Fine byte of Magenta
9	Yellow	0	

Extended Pan630 (continued)

Ch	Function	Default	DMX values
10	Yellow Fine	0	Fine byte of Yellow
11	C TO	0	
12	C TO Fine	0	Fine byte of C TO
13	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel
15	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
16	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Focus	127	
19	Focus Fine	255	Fine byte of Focus
20	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
21	Zoom Fine	255	Fine byte of Zoom

Extended Pan630 (continued)

Ch	Function	Default	DMX values
22	Focus1Adjust	0	0–50 Off 51–100 5m 101–150 7_5m 151–200 10m 201–255 15m
23	Focus1Adjust Fine	0	Fine byte of Focus1Adjust
24	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
25	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
26	Dimmer Fine	0	Fine byte of Dimmer
27	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
28	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
29	Iris Fine	0	Fine byte of Iris

Extended Pan630 (continued)

Ch	Function	Default	DMX values
30	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
31	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)
32	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 Macros Off 32–39 Macro 1 40–47 Macro 2 48–55 Macro 3 56–63 Macro 4 64–71 Macro 5 72–79 Macro 6 80–87 Macro 7 88–95 Macro 8 96–103 Macro 9 104–111 Macro 10 112–119 Macro 11 120–127 Macro 12 128–135 Macro 13 136–143 Macro 14 144–151 Macro 15 152–159 Macro 16 160–167 Macro 17 168–175 Macro 18 176–183 Macro 19 184–191 Macro 20 192–199 Macro 21 200–207 Macro 22 208–215 Macro 23 216–223 Macro 24 224–231 Macro 25 232–239 Macro 26 240–247 Macro 27 248–255 Random CMY
35	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout By Movement 236–255 Blackout By All Wheel Movement
36	Control1	0	

Framing Extended Mode Pan630

56 channels

Ch	Function	Default	DMX values
1	Pan	109	
2	Pan Fine	182	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt

Framing Extended Mode Pan630 (continued)

Ch	Function	Default	DMX values
5	Cyan	0	
6	Cyan Fine	0	Fine byte of Cyan
7	Magenta	0	
8	Magenta Fine	0	Fine byte of Magenta
9	Yellow	0	
10	Yellow Fine	0	Fine byte of Yellow
11	C TO	0	
12	C TO Fine	0	Fine byte of C TO
13	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel
15	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
16	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Focus	127	
19	Focus Fine	255	Fine byte of Focus

Framing Extended Mode Pan630 (continued)

Ch	Function	Default	DMX values
20	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
21	Zoom Fine	255	Fine byte of Zoom
22	Focus1Adjust	0	0–50 Off 51–100 5m 101–150 7_5m 151–200 10m 201–255 15m
23	Focus1Adjust Fine	0	Fine byte of Focus1Adjust
24	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
25	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
26	Dimmer Fine	0	Fine byte of Dimmer
27	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s

Framing Extended Mode Pan630 (continued)

Ch	Function	Default	DMX values
28	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
29	Iris Fine	0	Fine byte of Iris
30	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
31	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)
32	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 Macros Off 32–39 Macro 1 40–47 Macro 2 48–55 Macro 3 56–63 Macro 4 64–71 Macro 5 72–79 Macro 6 80–87 Macro 7 88–95 Macro 8 96–103 Macro 9 104–111 Macro 10 112–119 Macro 11 120–127 Macro 12 128–135 Macro 13 136–143 Macro 14 144–151 Macro 15 152–159 Macro 16 160–167 Macro 17 168–175 Macro 18 176–183 Macro 19 184–191 Macro 20 192–199 Macro 21 200–207 Macro 22 208–215 Macro 23 216–223 Macro 24 224–231 Macro 25 232–239 Macro 26 240–247 Macro 27 248–255 Random CMY
35	Blade1A	0	0–254 Open 255–255 Close
36	Blade1A Fine	0	Fine byte of Blade1A
37	Blade1B	0	0–254 Open 255–255 Close
38	Blade1B Fine	0	Fine byte of Blade1B

Framing Extended Mode Pan630 (continued)

Ch	Function	Default	DMX values
39	Blade2A	0	0–254 Open 255–255 Close
40	Blade2A Fine	0	Fine byte of Blade2A
41	Blade2B	0	0–254 Open 255–255 Close
42	Blade2B Fine	0	Fine byte of Blade2B
43	Blade3A	0	0–254 Open 255–255 Close
44	Blade3A Fine	0	Fine byte of Blade3A
45	Blade3B	0	0–254 Open 255–255 Close
46	Blade3B Fine	0	Fine byte of Blade3B
47	Blade4A	0	0–254 Open 255–255 Close
48	Blade4A Fine	0	Fine byte of Blade4A
49	Blade4B	0	0–254 Open 255–255 Close
50	Blade4B Fine	0	Fine byte of Blade4B
51	Shaper Rot	127	0–127 Minimum 128–254 Parallel 255–255 Maximum
52	Shaper Rot Fine	255	Fine byte of Shaper Rot
53	Frame MSpeed	0	
54	Shaper Macros	0	0–7 Off 8–15 Macro 1 16–23 Macro 2 24–31 Macro 3 32–39 Macro 4 40–47 Macro 5 48–55 Macro 6 56–63 Macro 7 64–71 Macro 8 72–79 Macro 9 80–87 Macro 10 88–95 Macro 11 96–103 Macro 12 104–111 Macro 13 112–119 Macro 14 120–127 Macro 15 128–135 Macro 16 136–143 Macro 17 144–151 Macro 18 152–159 Macro 19 160–167 Macro 20 168–175 Macro 21 176–183 Macro 22 184–191 Macro 23 192–199 Macro 24 200–207 Macro 25 208–215 Macro 26 216–223 Macro 27 224–231 Macro 28 232–239 Macro 29 240–247 Macro 30 248–255 Macro 31

Framing Extended Mode Pan630 (continued)

Ch	Function	Default	DMX values
55	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout By Movement 236–255 Blackout By All Wheel Movement
56	Control1	0	

Framing Extended Pan540

56 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Cyan	0	
6	Cyan Fine	0	Fine byte of Cyan
7	Magenta	0	
8	Magenta Fine	0	Fine byte of Magenta
9	Yellow	0	
10	Yellow Fine	0	Fine byte of Yellow
11	C TO	0	
12	C TO Fine	0	Fine byte of C TO
13	Color Wheel	0	0–19 Open (wheel slot 1) 20–37 Red (wheel slot 2) 38–55 Green (wheel slot 3) 56–73 UV (wheel slot 4) 74–91 High CRI (wheel slot 5) 92–109 Orange (wheel slot 6) 110–127 Medium Blue (wheel slot 7) 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel

Framing Extended Pan540 (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–9 Open (wheel slot 1) 10–19 <<Gobo 1>> (wheel slot 2) 20–29 <<Gobo 2>> (wheel slot 3) 30–39 <<Gobo 3>> (wheel slot 4) 40–49 <<Gobo 4>> (wheel slot 5) 50–59 <<Gobo 5>> (wheel slot 6) 60–69 <<Gobo 6>> (wheel slot 7) 70–89 **Gobo 1** (wheel slot 2) 90–109 **Gobo 2** (wheel slot 3) 110–129 **Gobo 3** (wheel slot 4) 130–149 **Gobo 4** (wheel slot 5) 150–169 **Gobo 5** (wheel slot 6) 170–189 **Gobo 6** (wheel slot 7) 190–205 CW Fast 206–220 CW Med 221–221 CW Slow 222–223 Rot Stop 224–238 CCW Slow 239–254 CCW Med 255–255 CCW Fastr
16	Gobo Rotation	0	0–126 Index Min 127–127 Index Max 128–158 CW Fast 159–188 CW Med 189–189 CW Slow 190–193 Rot Stop 194–224 CCW Slow 225–254 CCW Med 255–255 CCW Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Focus	127	
19	Focus Fine	255	Fine byte of Focus
20	Zoom	127	0–127 Narrow 128–254 Normal 255–255 Wide
21	Zoom Fine	255	Fine byte of Zoom
22	Focus1Adjust	0	0–50 Off 51–100 5m 101–150 7_5m 151–200 10m 201–255 15m
23	Focus1Adjust Fine	0	Fine byte of Focus1Adjust
24	Shutter / Strobe	50	0–31 Closed 32–63 Open 64–94 Strobe Min 95–95 Strobe Max 96–127 Open 128–158 Strobe Pulse Min 159–159 Strobe Pulse Max 160–191 Open 192–222 Random Strobe Min 223–223 Random Strobe Max 224–255 Open
25	Dimmer	0	0–62 0 Percent 63–126 25 Percent 127–190 50 Percent 191–254 75 Percent 255–255 100 Percent
26	Dimmer Fine	0	Fine byte of Dimmer

Framing Extended Pan540 (continued)

Ch	Function	Default	DMX values
27	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 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 141–255 10s
28	Iris	0	0–190 Max 191–191 Min 192–206 Pulse Close Fast 207–222 Pulse Close Med 223–223 Pulse Close Slow 224–238 Pulse Open Slow 239–254 Pulse Open Med 255–255 Pulse Open Fast
29	Iris Fine	0	Fine byte of Iris
30	Frost1	0	0–126 Open 127–254 Light Frost 255–255 Wash Frost
31	Animation Wheel1	0	0–254 No Animation (wheel slot 1) 255–255 Animation Wheel (wheel slot 2)
32	Animation Wheel1Pos	0	0–126 Min 127–127 Max 128–158 CW Fast 159–188 CW Medium 189–189 CW Slow 190–193 Rot Stop 194–223 CCW Slow 224–254 CCW Medium 255–255 CCW Fast
33	Color Mix MSpeed	0	

Framing Extended Pan540 (continued)

Ch	Function	Default	DMX values
34	Color Macro1	0	0–31 Macros Off 32–39 Macro 1 40–47 Macro 2 48–55 Macro 3 56–63 Macro 4 64–71 Macro 5 72–79 Macro 6 80–87 Macro 7 88–95 Macro 8 96–103 Macro 9 104–111 Macro 10 112–119 Macro 11 120–127 Macro 12 128–135 Macro 13 136–143 Macro 14 144–151 Macro 15 152–159 Macro 16 160–167 Macro 17 168–175 Macro 18 176–183 Macro 19 184–191 Macro 20 192–199 Macro 21 200–207 Macro 22 208–215 Macro 23 216–223 Macro 24 224–231 Macro 25 232–239 Macro 26 240–247 Macro 27 248–255 Random CMY
35	Blade1A	0	0–254 Open 255–255 Close
36	Blade1A Fine	0	Fine byte of Blade1A
37	Blade1B	0	0–254 Open 255–255 Close
38	Blade1B Fine	0	Fine byte of Blade1B
39	Blade2A	0	0–254 Open 255–255 Close
40	Blade2A Fine	0	Fine byte of Blade2A
41	Blade2B	0	0–254 Open 255–255 Close
42	Blade2B Fine	0	Fine byte of Blade2B
43	Blade3A	0	0–254 Open 255–255 Close
44	Blade3A Fine	0	Fine byte of Blade3A
45	Blade3B	0	0–254 Open 255–255 Close
46	Blade3B Fine	0	Fine byte of Blade3B
47	Blade4A	0	0–254 Open 255–255 Close
48	Blade4A Fine	0	Fine byte of Blade4A
49	Blade4B	0	0–254 Open 255–255 Close
50	Blade4B Fine	0	Fine byte of Blade4B
51	Shaper Rot	127	0–127 Minimum 128–254 Parallel 255–255 Maximum

Framing Extended Pan540 (continued)

Ch	Function	Default	DMX values
52	Shaper Rot Fine	255	Fine byte of Shaper Rot
53	Frame MSpeed	0	
54	Shaper Macros	0	0–7 Off 8–15 Macro 1 16–23 Macro 2 24–31 Macro 3 32–39 Macro 4 40–47 Macro 5 48–55 Macro 6 56–63 Macro 7 64–71 Macro 8 72–79 Macro 9 80–87 Macro 10 88–95 Macro 11 96–103 Macro 12 104–111 Macro 13 112–119 Macro 14 120–127 Macro 15 128–135 Macro 16 136–143 Macro 17 144–151 Macro 18 152–159 Macro 19 160–167 Macro 20 168–175 Macro 21 176–183 Macro 22 184–191 Macro 23 192–199 Macro 24 200–207 Macro 25 208–215 Macro 26 216–223 Macro 27 224–231 Macro 28 232–239 Macro 29 240–247 Macro 30 248–255 Macro 31
55	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout By Movement 236–255 Blackout By All Wheel Movement
56	Control1	0	