Elation

Proteus Radius



Manufacturer	**Elation**
Type	**Moving head**
DMX modes	**8**
DMX footprint	**26, 36 channels**
Beam angle	**1°**
Pan range	**630°**
Tilt range	**540°**
Size (W × H × D)	**275 × 340 × 200 mm**
GDTF fixture type	**B3107BAA-9C6A-4CAE-8E0E-08…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions · Strobe · Built-in effect programmes

DMX modes

Standard Pan540 Tilt270	26 ch
Standard Pan540 Tilt540	26 ch
Standard Pan630 Tilt270	26 ch
Standard Pan630 Tilt540	26 ch
Extended Pan540 Tilt270	36 ch
Extended Pan540 Tilt540	36 ch
Extended Pan630 Tilt 270	36 ch
Extended Pan630 Tilt540	36 ch

Standard Pan540 Tilt270

26 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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
9	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
10	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
11	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
12	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Standard Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
14	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
15	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
16	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
17	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
18	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
19	Focus	0	
20	Focus Fine	0	Fine byte of Focus
21	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
22	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
23	Dimmer Fine	0	Fine byte of Dimmer
24	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 141–141 10s 142–255 Idle
25	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Standard Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
26	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Standard Pan540 Tilt540

26 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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Standard Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
9	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
10	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
11	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
12	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Standard Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
14	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
15	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
16	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
17	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
18	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
19	Focus	0	
20	Focus Fine	0	Fine byte of Focus
21	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
22	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
23	Dimmer Fine	0	Fine byte of Dimmer
24	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 141–141 10s 142–255 Idle
25	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Standard Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
26	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Standard Pan630 Tilt270

26 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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Standard Pan630 Tilt270 (continued)

Ch	Function	Default	DMX values
9	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
10	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan630 Tilt270 (continued)

Ch	Function	Default	DMX values
11	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
12	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Standard Pan630 Tilt270 (continued)

Ch	Function	Default	DMX values
14	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
15	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
16	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan630 Tilt270 (continued)

Ch	Function	Default	DMX values
17	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
18	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
19	Focus	0	
20	Focus Fine	0	Fine byte of Focus
21	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
22	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
23	Dimmer Fine	0	Fine byte of Dimmer
24	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 141–141 10s 142–255 Idle
25	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Standard Pan630 Tilt270 (continued)

Ch	Function	Default	DMX values
26	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Standard Pan630 Tilt540

26 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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Standard Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
9	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
10	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
11	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
12	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
13	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Standard Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
14	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
15	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
16	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Standard Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
17	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
18	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
19	Focus	0	
20	Focus Fine	0	Fine byte of Focus
21	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
22	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
23	Dimmer Fine	0	Fine byte of Dimmer
24	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 141–141 10s 142–255 Idle
25	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Standard Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
26	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Extended Pan540 Tilt270

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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
12	Yellow Fine	0	Fine byte of Yellow
13	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
16	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
18	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
19	Gobo 2 Fine	0	Fine byte of Gobo 2
20	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
21	Prism Rotation	0	0–126 Index Position 127–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
22	Prism Rotation Fine	0	Fine byte of Prism Rotation
23	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
24	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
25	Prism Rotation Fine	0	Fine byte of Prism Rotation
26	Focus	0	
27	Focus Fine	0	Fine byte of Focus
28	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
29	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
30	Dimmer Fine	0	Fine byte of Dimmer
31	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 141–141 10s 142–255 Idle
32	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 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	0–225 Max to Min 226–235 Blackout By Movement 236–245 Blackout by wheel changes 246–255 Function

Extended Pan540 Tilt270 (continued)

Ch	Function	Default	DMX values
36	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Extended Pan540 Tilt540

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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
12	Yellow Fine	0	Fine byte of Yellow
13	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
16	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
18	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
19	Gobo 2 Fine	0	Fine byte of Gobo 2
20	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
21	Prism Rotation	0	0–126 Index Position 127–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
22	Prism Rotation Fine	0	Fine byte of Prism Rotation
23	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
24	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
25	Prism Rotation Fine	0	Fine byte of Prism Rotation
26	Focus	0	
27	Focus Fine	0	Fine byte of Focus
28	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
29	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
30	Dimmer Fine	0	Fine byte of Dimmer
31	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 141–141 10s 142–255 Idle
32	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 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	0–225 Max to Min 226–235 Blackout By Movement 236–245 Blackout by wheel changes 246–255 Function

Extended Pan540 Tilt540 (continued)

Ch	Function	Default	DMX values
36	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Extended Pan630 Tilt 270

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	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
12	Yellow Fine	0	Fine byte of Yellow
13	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
16	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
18	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
19	Gobo 2 Fine	0	Fine byte of Gobo 2
20	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
21	Prism Rotation	0	0–126 Index Position 127–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
22	Prism Rotation Fine	0	Fine byte of Prism Rotation
23	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
24	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
25	Prism Rotation Fine	0	Fine byte of Prism Rotation
26	Focus	0	
27	Focus Fine	0	Fine byte of Focus
28	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
29	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
30	Dimmer Fine	0	Fine byte of Dimmer
31	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 141–141 10s 142–255 Idle
32	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 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	0–225 Max to Min 226–235 Blackout By Movement 236–245 Blackout by wheel changes 246–255 Function

Extended Pan630 Tilt 270 (continued)

Ch	Function	Default	DMX values
36	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle

Extended Pan630 Tilt540

36 channels

Ch	Function	Default	DMX values
1	Pan	109	
2	Pan Fine	182	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Pan rotation from fast to slow 190–193 No rotation 194–255 Backwards Pan rotation from slow to fast
6	Tilt Rotate	0	0–63 stop rotation by spinout 64–127 stop rotation by shortcut 128–189 Forwards Tilt rotation from fast to slow 190–193 No rotation 194–255 Backwards Tilt rotation from slow to fast
7	Cyan	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	0–62 0% 63–126 25% 127–190 50% 191–254 75% 255–255 100%
12	Yellow Fine	0	Fine byte of Yellow
13	Color Wheel	0	0–2 Open (wheel slot 1) 3–7 C1 (wheel slot 2) 8–12 C2 (wheel slot 3) 13–17 C3 (wheel slot 4) 18–22 C4 (wheel slot 5) 23–27 C5 (wheel slot 6) 28–32 C6 (wheel slot 7) 33–37 C7 (wheel slot 8) 38–42 C8 (wheel slot 9) 43–47 C9 (wheel slot 10) 48–52 C10 (wheel slot 11) 53–57 C11 (wheel slot 12) 58–62 C12 (wheel slot 13) 63–67 C13 (wheel slot 14) 68–72 C14 (wheel slot 15) 73–77 C15 (wheel slot 16) 78–82 C16 (wheel slot 17) 83–87 C17 (wheel slot 18) 88–92 C18 (wheel slot 19) 93–97 C19 (wheel slot 20) 98–102 C20 (wheel slot 21) 103–107 C21 (wheel slot 22) 108–112 C22 (wheel slot 23) 113–117 C23 (wheel slot 24) 118–122 C24 (wheel slot 25) 123–127 C25 (wheel slot 26) 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
14	Color Wheel Fine	0	Fine byte of Color Wheel

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–7 Open (wheel slot 1) 8–14 Gobo 1 (wheel slot 3) 15–21 Gobo 2 (wheel slot 4) 22–28 Gobo 3 (wheel slot 5) 29–35 Gobo 4 (wheel slot 6) 36–42 Gobo 5 (wheel slot 7) 43–49 Gobo 6 (wheel slot 8) 50–56 Gobo 7 (wheel slot 9) 57–63 Gobo 8 (wheel slot 10) 64–70 Gobo 9 (wheel slot 11) 71–77 Gobo 9 (wheel slot 12) 78–84 Gobo 11 (wheel slot 13) 85–91 Gobo 12 (wheel slot 14) 92–98 Gobo 13 (wheel slot 15) 99–105 Gobo 1 (wheel slot 3) 106–112 Gobo 2 (wheel slot 4) 113–119 Gobo 3 (wheel slot 5) 120–126 Gobo 4 (wheel slot 6) 127–133 Gobo 5 (wheel slot 7) 134–140 Gobo 6 (wheel slot 8) 141–147 Gobo 7 (wheel slot 9) 148–154 Gobo 8 (wheel slot 10) 155–161 Gobo 9 (wheel slot 11) 162–168 Gobo 10 (wheel slot 12) 169–175 Gobo 11 (wheel slot 13) 176–182 Gobo 12 (wheel slot 14) 183–189 Gobo 13 (wheel slot 15) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
16	Gobo Rotation	0	0–126 Index Min 127–224 Clockwise Fast to Slow 225–254 Stop 255–255 Counter-clockwise Slow to Fast
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
18	Gobo 2	0	0–45 Open (wheel slot 1) 46–48 Gobo 1 (wheel slot 2) 49–51 Gobo 2 (wheel slot 3) 52–54 Gobo 3 (wheel slot 4) 55–57 Gobo 4 (wheel slot 5) 58–60 Gobo 5 (wheel slot 6) 61–63 Gobo 6 (wheel slot 7) 64–66 Gobo 7 (wheel slot 8) 67–69 Gobo 8 (wheel slot 9) 70–72 Gobo 9 (wheel slot 10) 73–75 Gobo 10 (wheel slot 11) 76–78 Gobo 11 (wheel slot 12) 79–81 Gobo 12 (wheel slot 13) 82–84 Gobo 13 (wheel slot 14) 85–87 Gobo 14 (wheel slot 15) 88–90 Gobo 15 (wheel slot 16) 91–93 Gobo 16 (wheel slot 17) 94–96 Gobo 17 (wheel slot 18) 97–99 Gobo 18 (wheel slot 19) 100–102 Gobo 19 (wheel slot 20) 103–105 Gobo 20 (wheel slot 21) 106–108 Gobo 21 (wheel slot 22) 109–111 Gobo 22 (wheel slot 23) 112–114 Gobo 23 (wheel slot 24) 115–117 Gobo 24 (wheel slot 25) 118–120 Gobo 1 (wheel slot 2) 121–123 Gobo 2 (wheel slot 3) 124–126 Gobo 3 (wheel slot 4) 127–129 Gobo 4 (wheel slot 5) 130–132 Gobo 5 (wheel slot 6) 133–135 Gobo 6 (wheel slot 7) 136–138 Gobo 7 (wheel slot 8) 139–141 Gobo 8 (wheel slot 9) 142–144 Gobo 9 (wheel slot 10) 145–147 Gobo 10 (wheel slot 11) 148–150 Gobo 11 (wheel slot 12) 151–153 Gobo 12 (wheel slot 13) 154–156 Gobo 13 (wheel slot 14) 157–159 Gobo 14 (wheel slot 15) 160–162 Gobo 15 (wheel slot 16) 163–165 Gobo 16 (wheel slot 17) 166–168 Gobo 17 (wheel slot 18) 169–171 Gobo 18 (wheel slot 19) 172–174 Gobo 19 (wheel slot 20) 175–177 Gobo 20 (wheel slot 21) 178–180 Gobo 21 (wheel slot 22) 181–183 Gobo 22 (wheel slot 23) 184–186 Gobo 23 (wheel slot 24) 187–189 Gobo 24 (wheel slot 25) 190–221 Clockwise Fast to Slow 222–223 Stop 224–255 Counter-clockwise Slow to Fast
19	Gobo 2 Fine	0	Fine byte of Gobo 2
20	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 1 (wheel slot 2) 74–127 Prism 2 (wheel slot 3) 128–255 Reserve (wheel slot 1)
21	Prism Rotation	0	0–126 Index Position 127–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
22	Prism Rotation Fine	0	Fine byte of Prism Rotation
23	Prism	0	0–19 Open (wheel slot 1) 20–73 Prism 3 (wheel slot 4) 74–127 Prism 4 (wheel slot 5) 128–255 Reserve (wheel slot 1)
24	Prism Rotation	0	0–127 Index Position 128–189 Clockwise Fast to Slow 190–193 Stop 194–255 Counter-clockwise Slow to Fast
25	Prism Rotation Fine	0	Fine byte of Prism Rotation
26	Focus	0	
27	Focus Fine	0	Fine byte of Focus
28	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
29	Dimmer	0	0–62 0 percent 63–126 25 percent 127–190 50 percent 191–254 75 percent 255–255 100 percent
30	Dimmer Fine	0	Fine byte of Dimmer
31	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 141–141 10s 142–255 Idle
32	Frost1	0	0–127 Open Frost 1 128–255 Open Frost 2

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
33	Color Mix MSpeed	0	
34	Color Macro1	0	0–31 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	0–225 Max to Min 226–235 Blackout By Movement 236–245 Blackout by wheel changes 246–255 Function

Extended Pan630 Tilt540 (continued)

Ch	Function	Default	DMX values
36	Control1	0	0–79 Normal 80–84 All motor reset 85–87 Scan motor reset 88–90 Color motor reset 91–93 Gobo motor reset 94–96 Zoom motor reset 97–99 Others motor reset 100–172 Idle 173–174 Hibernation Off 175–176 Hibernation 177–178 Home Position Before Power Off 179–180 Home Position Off 181–190 Pan Tilt Smooth (default) 191–200 Pan Tilt Fast 201–210 Dimmer Curve Linear (default) 211–220 Dimmer Curve Square 221–230 Dimmer Curve Inverse Square 231–240 Dimmer Curve S-Curve 241–241 Internal Program 1 242–242 Internal Program 2 243–243 Internal Program 3 244–244 Internal Program 4 245–245 Internal Program 5 246–246 Internal Program 6 247–247 Internal Program 7 248–249 Idle 250–251 Display OFF 252–253 Display ON 254–255 Idle