Martin Professional

ERA 700 Performance IP



Manufacturer	**Martin Professional**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**42, 54 channels**
Beam angle	**5.4-41.1°**
Pan range	**540°**
Tilt range	**268°**
Size (W × H × D)	**326 × 542 × 274 mm**
GDTF fixture type	**B9C93F27-EF82-43AE-94BB-52…**

Controls

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

DMX modes

Basic	42 ch
Extended	54 ch

Basic

42 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	30	0–19 Closed 20–49 Open 50–124 Strobe · Slow 1–10.4 Hz 125–199 Strobe · Medium 10.5–19.9 Hz 200–200 Strobe · Fast 20 Hz 201–210 Open 211–232 Strobe Random · Slow 1–10.1 Hz 233–254 Strobe Random · Medium 10.5–19.6 Hz 255–255 Strobe Random · Fast 20 Hz
2	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
3	Dimmer Fine	0	Fine byte of Dimmer
4	Cyan	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
5	Cyan Fine	0	Fine byte of Cyan
6	Magenta	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
7	Magenta Fine	0	Fine byte of Magenta
8	Yellow	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
9	Yellow Fine	0	Fine byte of Yellow
10	C TO	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
11	C TO Fine	0	Fine byte of C TO

Basic (continued)

Ch	Function	Default	DMX values
12	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 Red (wheel slot 2) 2–2 Deep Blue (wheel slot 3) 3–3 Deep Green (wheel slot 4) 4–4 Lavender (wheel slot 5) 5–5 Deep Orange (wheel slot 6) 6–6 Spectral Enhancement (wheel slot 7) 7–7 Congo Blue (wheel slot 8) 8–23 No Function 1 24–24 Open (wheel slot 1) 25–35 Split 1 (wheel slot 1) 36–36 Red (wheel slot 2) 37–47 Split 2 (wheel slot 2) 48–48 Deep Blue (wheel slot 3) 49–59 Split 3 (wheel slot 3) 60–60 Deep Green (wheel slot 4) 61–71 Split 4 (wheel slot 4) 72–72 Lavender (wheel slot 5) 73–83 Split 5 (wheel slot 5) 84–84 Deep Orange (wheel slot 6) 85–95 Split 6 (wheel slot 6) 96–96 Spectral Enhancement (wheel slot 7) 97–107 Split 7 (wheel slot 7) 108–108 Congo Blue (wheel slot 8) 109–119 Split 8 (wheel slot 8) 120–120 Open (wheel slot 1) 121–127 No Function 2 128–135 Open (wheel slot 1) 136–143 Red (wheel slot 2) 144–151 Deep Blue (wheel slot 3) 152–159 Deep Green (wheel slot 4) 160–167 Lavender (wheel slot 5) 168–175 Deep Orange (wheel slot 6) 176–183 Spectral Enhancement (wheel slot 7) 184–191 Congo Blue (wheel slot 8) 192–202 CW Max 203–213 CW Med 214–214 CW Min 215–216 Stop 217–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max

Basic (continued)

Ch	Function	Default	DMX values
13	Gobo	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–127 No Function 1 128–136 Gobo 1 (wheel slot 2) 137–145 Gobo 2 (wheel slot 3) 146–154 Gobo 3 (wheel slot 4) 155–163 Gobo 4 (wheel slot 5) 164–172 Gobo 5 (wheel slot 6) 173–181 Gobo 6 (wheel slot 7) 182–190 Gobo 7 (wheel slot 8) 191–191 No Function 2 192–202 CW Max 203–214 CW Med 215–215 CW Min 216–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max
14	Gobo Rotation	64	0–31 180 deg 32–62 90 deg 63–94 0 deg 95–126 -90 deg 127–127 -180 deg 128–158 CW Max 159–190 CW Med 191–191 CW Min 192–223 CCW Min 224–254 CCW Med 255–255 CCW Max
15	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Basic (continued)

Ch	Function	Default	DMX values
16	Gobo 2	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–8 Gobo 8 (wheel slot 9) 9–23 No Function 1 24–24 Open (wheel slot 1) 25–34 Split 1 (wheel slot 1) 35–35 Gobo 1 (wheel slot 2) 36–45 Split 2 (wheel slot 2) 46–46 Gobo 2 (wheel slot 3) 47–56 Split 3 (wheel slot 3) 57–57 Gobo 3 (wheel slot 4) 58–67 Split 4 (wheel slot 4) 68–68 Gobo 4 (wheel slot 5) 69–78 Split 5 (wheel slot 5) 79–79 Gobo 5 (wheel slot 6) 80–89 Split 6 (wheel slot 6) 90–90 Gobo 6 (wheel slot 7) 91–100 Split 7 (wheel slot 7) 101–101 Gobo 7 (wheel slot 8) 102–111 Split 8 (wheel slot 8) 112–112 Gobo 8 (wheel slot 9) 113–122 Split 9 (wheel slot 9) 123–123 Open (wheel slot 1) 124–127 No Function 2 128–134 Open (wheel slot 1) 135–141 Gobo 1 (wheel slot 2) 142–148 Gobo 2 (wheel slot 3) 149–155 Gobo 3 (wheel slot 4) 156–162 Gobo 4 (wheel slot 5) 163–169 Gobo 5 (wheel slot 6) 170–176 Gobo 6 (wheel slot 7) 177–183 Gobo 7 (wheel slot 8) 184–190 Gobo 8 (wheel slot 9) 191–191 No Function 3 192–202 CW Max 203–213 CW Med 214–214 CW Min 215–216 Stop 217–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max
17	Animation System1	0	0–0 Open (wheel slot 1) 1–1 In (wheel slot 2) 2–127 No Function 1 128–191 Shake (wheel slot 2) 192–255 No Function 2

Basic (continued)

Ch	Function	Default	DMX values
18	Animation System1Pos	64	0–31 180 deg 32–62 90 deg 63–94 0 deg 95–126 -90 deg 127–127 -180 deg 128–158 CW Max 159–189 CW Med 190–190 CW Min 191–192 Stop 193–223 CCW Min 224–254 CCW Med 255–255 CCW Max
19	Frost1	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
20	Frost2	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
21	Prism	0	0–0 Open (wheel slot 1) 1–1 4 Facet Prism (wheel slot 2) 2–2 6 Facet Linear (wheel slot 3) 3–127 No Function 1 128–159 4 Facet Prism (wheel slot 2) 160–191 6 Facet Linear (wheel slot 3) 192–255 No Function 2
22	Prism Rotation	64	0–31 -180 deg 32–62 -90 deg 63–94 0 deg 95–126 90 deg 127–127 180 deg 128–158 CW Max 159–189 CW Med 190–190 CW Min 191–192 Stop 193–223 CCW Min 224–254 CCW Med 255–255 CCW Max
23	Iris	0	0–47 Open 48–95 25% 96–143 50% 144–190 75% 191–191 Closed 192–192 Stop 193–207 Min 208–222 Med 223–223 Max 224–224 Stop 225–239 Min 240–254 Med 255–255 Max
24	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow
25	Zoom Fine	0	Fine byte of Zoom

Basic (continued)

Ch	Function	Default	DMX values
26	Focus	128	0–127 Far 128–254 Medium 255–255 Near
27	Focus Fine	0	Fine byte of Focus
28	Blade3A	0	0–127 Min 128–254 Med 255–255 Max
29	Blade3Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
30	Blade4A	0	0–127 Min 128–254 Med 255–255 Max
31	Blade4Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
32	Blade1A	0	0–127 Min 128–254 Med 255–255 Max
33	Blade1Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
34	Blade2A	0	0–127 Min 128–254 Med 255–255 Max
35	Blade2Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
36	Shaper Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
37	Pan	128	
38	Pan Fine	0	Fine byte of Pan
39	Tilt	128	
40	Tilt Fine	0	Fine byte of Tilt
41	Control1	0	
42	L EDFrequency	128	0–0 No Function 1 1–127 -2 8% 128–253 0% 254–254 +2 8% 255–255 19200 Hz

Extended

54 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	30	0–19 Closed 20–49 Open 50–124 Strobe · Slow 1–10.4 Hz 125–199 Strobe · Medium 10.5–19.9 Hz 200–200 Strobe · Fast 20 Hz 201–210 Open 211–232 Strobe Random · Slow 1–10.1 Hz 233–254 Strobe Random · Medium 10.5–19.6 Hz 255–255 Strobe Random · Fast 20 Hz

Extended (continued)

Ch	Function	Default	DMX values
2	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
3	Dimmer Fine	0	Fine byte of Dimmer
4	Cyan	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
5	Cyan Fine	0	Fine byte of Cyan
6	Magenta	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
7	Magenta Fine	0	Fine byte of Magenta
8	Yellow	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
9	Yellow Fine	0	Fine byte of Yellow
10	C TO	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
11	C TO Fine	0	Fine byte of C TO

Extended (continued)

Ch	Function	Default	DMX values
12	Color Wheel	0	0–0 Open (wheel slot 1) 1–1 Red (wheel slot 2) 2–2 Deep Blue (wheel slot 3) 3–3 Deep Green (wheel slot 4) 4–4 Lavender (wheel slot 5) 5–5 Deep Orange (wheel slot 6) 6–6 Spectral Enhancement (wheel slot 7) 7–7 Congo Blue (wheel slot 8) 8–23 No Function 1 24–24 Open (wheel slot 1) 25–35 Split 1 (wheel slot 1) 36–36 Red (wheel slot 2) 37–47 Split 2 (wheel slot 2) 48–48 Deep Blue (wheel slot 3) 49–59 Split 3 (wheel slot 3) 60–60 Deep Green (wheel slot 4) 61–71 Split 4 (wheel slot 4) 72–72 Lavender (wheel slot 5) 73–83 Split 5 (wheel slot 5) 84–84 Deep Orange (wheel slot 6) 85–95 Split 6 (wheel slot 6) 96–96 Spectral Enhancement (wheel slot 7) 97–107 Split 7 (wheel slot 7) 108–108 Congo Blue (wheel slot 8) 109–119 Split 8 (wheel slot 8) 120–120 Open (wheel slot 1) 121–127 No Function 2 128–135 Open (wheel slot 1) 136–143 Red (wheel slot 2) 144–151 Deep Blue (wheel slot 3) 152–159 Deep Green (wheel slot 4) 160–167 Lavender (wheel slot 5) 168–175 Deep Orange (wheel slot 6) 176–183 Spectral Enhancement (wheel slot 7) 184–191 Congo Blue (wheel slot 8) 192–202 CW Max 203–213 CW Med 214–214 CW Min 215–216 Stop 217–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max

Extended (continued)

Ch	Function	Default	DMX values
13	Gobo	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–127 No Function 1 128–136 Gobo 1 (wheel slot 2) 137–145 Gobo 2 (wheel slot 3) 146–154 Gobo 3 (wheel slot 4) 155–163 Gobo 4 (wheel slot 5) 164–172 Gobo 5 (wheel slot 6) 173–181 Gobo 6 (wheel slot 7) 182–190 Gobo 7 (wheel slot 8) 191–191 No Function 2 192–202 CW Max 203–214 CW Med 215–215 CW Min 216–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max
14	Gobo Rotation	64	0–31 180 deg 32–62 90 deg 63–94 0 deg 95–126 -90 deg 127–127 -180 deg 128–158 CW Max 159–190 CW Med 191–191 CW Min 192–223 CCW Min 224–254 CCW Med 255–255 CCW Max
15	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Extended (continued)

Ch	Function	Default	DMX values
16	Gobo 2	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–8 Gobo 8 (wheel slot 9) 9–23 No Function 1 24–24 Open (wheel slot 1) 25–34 Split 1 (wheel slot 1) 35–35 Gobo 1 (wheel slot 2) 36–45 Split 2 (wheel slot 2) 46–46 Gobo 2 (wheel slot 3) 47–56 Split 3 (wheel slot 3) 57–57 Gobo 3 (wheel slot 4) 58–67 Split 4 (wheel slot 4) 68–68 Gobo 4 (wheel slot 5) 69–78 Split 5 (wheel slot 5) 79–79 Gobo 5 (wheel slot 6) 80–89 Split 6 (wheel slot 6) 90–90 Gobo 6 (wheel slot 7) 91–100 Split 7 (wheel slot 7) 101–101 Gobo 7 (wheel slot 8) 102–111 Split 8 (wheel slot 8) 112–112 Gobo 8 (wheel slot 9) 113–122 Split 9 (wheel slot 9) 123–123 Open (wheel slot 1) 124–127 No Function 2 128–134 Open (wheel slot 1) 135–141 Gobo 1 (wheel slot 2) 142–148 Gobo 2 (wheel slot 3) 149–155 Gobo 3 (wheel slot 4) 156–162 Gobo 4 (wheel slot 5) 163–169 Gobo 5 (wheel slot 6) 170–176 Gobo 6 (wheel slot 7) 177–183 Gobo 7 (wheel slot 8) 184–190 Gobo 8 (wheel slot 9) 191–191 No Function 3 192–202 CW Max 203–213 CW Med 214–214 CW Min 215–216 Stop 217–227 CCW Min 228–238 CCW Med 239–239 CCW Max 240–240 Stop 241–247 Min 248–254 Med 255–255 Max
17	Animation System1	0	0–0 Open (wheel slot 1) 1–1 In (wheel slot 2) 2–127 No Function 1 128–191 Shake (wheel slot 2) 192–255 No Function 2

Extended (continued)

Ch	Function	Default	DMX values
18	Animation System1Pos	64	0–31 180 deg 32–62 90 deg 63–94 0 deg 95–126 -90 deg 127–127 -180 deg 128–158 CW Max 159–190 CW Med 191–191 CW Min 192–223 CCW Min 224–254 CCW Med 255–255 CCW Max
19	Animation System1Pos Fine	0	Fine byte of Animation System1Pos
20	Frost1	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
21	Frost2	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
22	Prism	0	0–0 Open (wheel slot 1) 1–1 4 Facet Prism (wheel slot 2) 2–2 6 Facet Linear (wheel slot 3) 3–127 No Function 1 128–159 4 Facet Prism (wheel slot 2) 160–191 6 Facet Linear (wheel slot 3) 192–255 No Function 2
23	Prism Rotation	64	0–31 -180 deg 32–62 -90 deg 63–94 0 deg 95–126 90 deg 127–127 180 deg 128–158 CW Max 159–190 CW Med 191–191 CW Min 192–223 CCW Min 224–254 CCW Med 255–255 CCW Max
24	Prism Rotation Fine	0	Fine byte of Prism Rotation
25	Iris	0	0–47 Open 48–95 25% 96–143 50% 144–190 75% 191–191 Closed 192–207 Stop 208–222 Med 223–223 Max 224–239 Stop 240–254 Med 255–255 Max
26	Iris Fine	0	Fine byte of Iris
27	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow
28	Zoom Fine	0	Fine byte of Zoom

Extended (continued)

Ch	Function	Default	DMX values
29	Focus	128	0–127 Far 128–254 Medium 255–255 Near
30	Focus Fine	0	Fine byte of Focus
31	Blade3A	0	0–127 Min 128–254 Med 255–255 Max
32	Blade3A Fine	0	Fine byte of Blade3A
33	Blade3Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
34	Blade3Rot Fine	0	Fine byte of Blade3Rot
35	Blade4A	0	0–127 Min 128–254 Med 255–255 Max
36	Blade4A Fine	0	Fine byte of Blade4A
37	Blade4Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
38	Blade4Rot Fine	0	Fine byte of Blade4Rot
39	Blade1A	0	0–127 Min 128–254 Med 255–255 Max
40	Blade1A Fine	0	Fine byte of Blade1A
41	Blade1Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
42	Blade1Rot Fine	0	Fine byte of Blade1Rot
43	Blade2A	0	0–127 Min 128–254 Med 255–255 Max
44	Blade2A Fine	0	Fine byte of Blade2A
45	Blade2Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
46	Blade2Rot Fine	0	Fine byte of Blade2Rot
47	Shaper Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
48	Shaper Rot Fine	0	Fine byte of Shaper Rot
49	Pan	128	
50	Pan Fine	0	Fine byte of Pan
51	Tilt	128	
52	Tilt Fine	0	Fine byte of Tilt
53	Control1	0	
54	L EDFrequency	128	0–0 No Function 1 1–127 -2 8% 128–253 0% 254–254 +2 8% 255–255 19200 Hz