Martin Professional

MAC Ultra Performance



Manufacturer	**Martin Professional**
Type	**Profile spot**
DMX modes	**3**
DMX footprint	**42, 48, 58 channels**
Beam angle	**6.6-50.2°**
Pan range	**540°**
Tilt range	**268°**
Size (W × H × D)	**374 × 659 × 320 mm**
GDTF fixture type	**EB46F8DF-374F-4A1A-9C80-C1…**

Controls

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

Safety-relevant functions

Built-in effect programmes

DMX modes

Compact	42 ch
Basic	48 ch
Extended	58 ch

Compact

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

Compact (continued)

Ch	Function	Default	DMX values
12	Color Wheel	0	0–7 Open (wheel slot 1) 8–22 Spectral Enhancement (wheel slot 2) 23–37 Blue (wheel slot 3) 38–52 Deep Green (wheel slot 4) 53–67 Orange (wheel slot 5) 68–82 Navy Blue (wheel slot 6) 83–97 Deep Red (wheel slot 7) 98–104 Open (wheel slot 1) 105–160 No Function 161–163 Spectral Enhancement (wheel slot 2) 164–166 Blue (wheel slot 3) 167–169 Deep Green (wheel slot 4) 170–172 Orange (wheel slot 5) 173–175 Navy Blue (wheel slot 6) 176–178 Deep Red (wheel slot 7) 179–192 Open (wheel slot 1) 193–202 CW Max 203–213 CW Med 214–214 CW Min 215–221 Stop 222–232 CCW Min 233–242 CCW Med 243–243 CCW Max 244–248 Fast 249–254 Medium 255–255 Slow
13	Gobo	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max
14	Gobo Rotation	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
15	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Compact (continued)

Ch	Function	Default	DMX values
16	Gobo 2	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max
17	Gobo Rotation 2	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
18	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2
19	Animation Wheel1	0	0–5 Open (wheel slot 1) 6–10 Horizontal Indexing (wheel slot 2) 11–15 Horizontal Rotation (wheel slot 2) 16–20 Vertical Rotation (wheel slot 2) 21–25 Vertical Indexing (wheel slot 2) 26–26 Angled Rotation Out (wheel slot 1) 27–59 Angled Rotation Inserting (wheel slot 2) 60–60 Angled Rotation Horizontal (wheel slot 2) 61–109 Angled Rotation Diagonal (wheel slot 2) 110–110 Angled Rotation Vertical (wheel slot 2) 111–111 Angled Indexing Vertical (wheel slot 2) 112–198 Angled Indexing Diagonal (wheel slot 2) 199–199 Angled Indexing Horizontal (wheel slot 2) 200–254 Angled Indexing Inserting (wheel slot 2) 255–255 Angled Indexing Out (wheel slot 1)
20	Animation Wheel1Pos	128	0–2 180 deg 3–63 CW Max 64–125 90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 -90 deg 253–253 CCW Max 254–254 Stop 90 255–255 -180 deg

Compact (continued)

Ch	Function	Default	DMX values
21	Frost1	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
22	Prism	0	0–10 Open (wheel slot 1) 11–138 Prism Index (wheel slot 2) 139–255 Prism Rotation (wheel slot 2)
23	Prism Rotation	128	0–2 -180 deg 3–63 CW Max 64–125 -90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 90 deg 253–253 CCW Max 254–254 Stop 45 255–255 180 deg
24	Iris	0	0–49 Open 50–99 25% 100–149 50% 150–199 75% 200–200 Closed 201–212 Fast 213–224 Medium 225–225 Slow 226–230 Pulse Stop 231–242 Slow 243–254 Medium 255–255 Fast
25	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow
26	Zoom Fine	0	Fine byte of Zoom
27	Focus	128	0–127 Far 128–254 Medium 255–255 Near
28	Focus Fine	0	Fine byte of Focus
29	Blade3A	0	0–127 Min 128–254 Med 255–255 Max
30	Blade3Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
31	Blade4A	0	0–127 Min 128–254 Med 255–255 Max
32	Blade4Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
33	Blade1A	0	0–127 Min 128–254 Med 255–255 Max
34	Blade1Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max

Compact (continued)

Ch	Function	Default	DMX values
35	Blade2A	0	0–127 Min 128–254 Med 255–255 Max
36	Blade2Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
37	Shaper Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
38	Pan	128	
39	Pan Fine	0	Fine byte of Pan
40	Tilt	128	
41	Tilt Fine	0	Fine byte of Tilt
42	Control1	0	

Basic

48 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

Basic (continued)

Ch	Function	Default	DMX values
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
12	Color Wheel	0	0–7 Open (wheel slot 1) 8–22 Spectral Enhancement (wheel slot 2) 23–37 Blue (wheel slot 3) 38–52 Deep Green (wheel slot 4) 53–67 Orange (wheel slot 5) 68–82 Navy Blue (wheel slot 6) 83–97 Deep Red (wheel slot 7) 98–104 Open (wheel slot 1) 105–160 No Function 161–163 Spectral Enhancement (wheel slot 2) 164–166 Blue (wheel slot 3) 167–169 Deep Green (wheel slot 4) 170–172 Orange (wheel slot 5) 173–175 Navy Blue (wheel slot 6) 176–178 Deep Red (wheel slot 7) 179–192 Open (wheel slot 1) 193–202 CW Max 203–213 CW Med 214–214 CW Min 215–221 Stop 222–232 CCW Min 233–242 CCW Med 243–243 CCW Max 244–248 Fast 249–254 Medium 255–255 Slow
13	Gobo	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max

Basic (continued)

Ch	Function	Default	DMX values
14	Gobo Rotation	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
15	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
16	Gobo 2	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max
17	Gobo Rotation 2	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
18	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Basic (continued)

Ch	Function	Default	DMX values
19	Animation Wheel1	0	0–5 Open (wheel slot 1) 6–10 Horizontal Indexing (wheel slot 2) 11–15 Horizontal Rotation (wheel slot 2) 16–20 Vertical Rotation (wheel slot 2) 21–25 Vertical Indexing (wheel slot 2) 26–26 Angled Rotation Out (wheel slot 1) 27–59 Angled Rotation Inserting (wheel slot 2) 60–60 Angled Rotation Horizontal (wheel slot 2) 61–109 Angled Rotation Diagonal (wheel slot 2) 110–110 Angled Rotation Vertical (wheel slot 2) 111–111 Angled Indexing Vertical (wheel slot 2) 112–198 Angled Indexing Diagonal (wheel slot 2) 199–199 Angled Indexing Horizontal (wheel slot 2) 200–254 Angled Indexing Inserting (wheel slot 2) 255–255 Angled Indexing Out (wheel slot 1)
20	Animation Wheel1Pos	128	0–2 180 deg 3–63 CW Max 64–125 90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 -90 deg 253–253 CCW Max 254–254 Stop 90 255–255 -180 deg
21	Frost1	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
22	Prism	0	0–10 Open (wheel slot 1) 11–138 Prism Index (wheel slot 2) 139–255 Prism Rotation (wheel slot 2)
23	Prism Rotation	128	0–2 -180 deg 3–63 CW Max 64–125 -90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 90 deg 253–253 CCW Max 254–254 Stop 45 255–255 180 deg
24	Iris	0	0–49 Open 50–99 25% 100–149 50% 150–199 75% 200–200 Closed 201–212 Fast 213–224 Medium 225–225 Slow 226–230 Pulse Stop 231–242 Slow 243–254 Medium 255–255 Fast
25	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow

Basic (continued)

Ch	Function	Default	DMX values
26	Zoom Fine	0	Fine byte of Zoom
27	Focus	128	0–127 Far 128–254 Medium 255–255 Near
28	Focus Fine	0	Fine byte of Focus
29	Blade3A	0	0–127 Min 128–254 Med 255–255 Max
30	Blade3Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
31	Blade4A	0	0–127 Min 128–254 Med 255–255 Max
32	Blade4Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
33	Blade1A	0	0–127 Min 128–254 Med 255–255 Max
34	Blade1Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
35	Blade2A	0	0–127 Min 128–254 Med 255–255 Max
36	Blade2Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
37	Shaper Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
38	Pan	128	
39	Pan Fine	0	Fine byte of Pan
40	Tilt	128	
41	Tilt Fine	0	Fine byte of Tilt
42	Control1	0	
43	P3Mix	0	0–26 DMX Mode 27–126 DMX 127–227 Mix 228–228 Video 229–255 Video Mode

Basic (continued)

Ch	Function	Default	DMX values
44	Effect	0	0–0 No Effect 1–1 Strobe Pulse Width 2–2 Wave 3–3 Step 4–4 Pulse 5–5 Blackout Strobe 6–6 2x Strobe 7–7 3x Strobe 8–8 4x Strobe 9–9 Up Down Flash 10–10 Up Flash Down Flash 11–11 Random Levels 12–12 Electric Arc 13–13 Atomic Lighting 14–14 Thunderstorm 15–15 Welding 16–31 No Function 32–32 Stop Motion 33–33 Movie Flicker 34–34 Random Dimmers 35–35 Shakey Dimmers 36–36 Negative Pulse 37–37 Positive Pulse 38–38 Radar Wave 39–39 Radar Step 40–40 Radar Pulse 41–41 OddEven Wave 42–42 OddEven Step 43–43 OddEven Pulse 44–44 5 Step Wave 45–45 5 Step Step 46–46 5 Step Pulse 47–63 No Function 1 64–64 Rainbow Wave 65–65 Rainbow Step 66–66 Rainbow Pulse 67–67 RGB Wave 68–68 RGB Step 69–69 RGB Pulse 70–70 CMY Wave 71–71 CMY Step 72–72 CMY Pulse 73–73 Mix to White Wave 74–74 Mix to White Step 75–75 Mix to White Pulse 76–76 Random Mix Wave 77–77 Random Mix Step 78–78 Random Mix Pulse 79–79 Random Subtle Wave 80–80 RedWhiteBlue Fade 81–81 RedWhiteBlue Snap 82–82 Full Bumps 83–83 All Bumps 84–84 Split Bumps 85–85 Random Split Bumps 86–86 Color Shaker 87–87 Fire 88–88 Water 89–89 Ice 90–90 Hot and Cold 91–91 Warm and Fuzzy 92–95 No Function 2 96–96 Iris Wave 97–97 Iris Step

Basic (continued)

Ch	Function	Default	DMX values
45	Effect Speed	128	0–63 Rev Max 64–125 Rev Med 126–126 Rev Min 127–127 Stop 128–128 3000 Hz 129–191 Fwd Min 192–254 Fwd Med 255–255 Fwd Max

Basic (continued)

Ch	Function	Default	DMX values
46	Effect 2	0	0–0 No Effect 1–1 Strobe Pulse Width 2–2 Wave 3–3 Step 4–4 Pulse 5–5 Blackout Strobe 6–6 2x Strobe 7–7 3x Strobe 8–8 4x Strobe 9–9 Up Down Flash 10–10 Up Flash Down Flash 11–11 Random Levels 12–12 Electric Arc 13–13 Atomic Lighting 14–14 Thunderstorm 15–15 Welding 16–31 No Function 32–32 Stop Motion 33–33 Movie Flicker 34–34 Random Dimmers 35–35 Shakey Dimmers 36–36 Negative Pulse 37–37 Positive Pulse 38–38 Radar Wave 39–39 Radar Step 40–40 Radar Pulse 41–41 OddEven Wave 42–42 OddEven Step 43–43 OddEven Pulse 44–44 5 Step Wave 45–45 5 Step Step 46–46 5 Step Pulse 47–63 No Function 1 64–64 Rainbow Wave 65–65 Rainbow Step 66–66 Rainbow Pulse 67–67 RGB Wave 68–68 RGB Step 69–69 RGB Pulse 70–70 CMY Wave 71–71 CMY Step 72–72 CMY Pulse 73–73 Mix to White Wave 74–74 Mix to White Step 75–75 Mix to White Pulse 76–76 Random Mix Wave 77–77 Random Mix Step 78–78 Random Mix Pulse 79–79 Random Subtle Wave 80–80 RedWhiteBlue Fade 81–81 RedWhiteBlue Snap 82–82 Full Bumps 83–83 All Bumps 84–84 Split Bumps 85–85 Random Split Bumps 86–86 Color Shaker 87–87 Fire 88–88 Water 89–89 Ice 90–90 Hot and Cold 91–91 Warm and Fuzzy 92–95 No Function 2 96–96 Iris Wave 97–97 Iris Step

Basic (continued)

Ch	Function	Default	DMX values
47	Effect Speed 2	128	0–63 Rev Max 64–125 Rev Med 126–126 Rev Min 127–127 Stop 128–128 3000 Hz 129–191 Fwd Min 192–254 Fwd Med 255–255 Fwd Max
48	Effects Sync	36	0–0 No Sync 1–1 Fixture Offset 10deg 2–2 Fixture Offset 20deg 3–3 Fixture Offset 30deg 4–4 Fixture Offset 40deg 5–5 Fixture Offset 50deg 6–6 Fixture Offset 60deg 7–7 Fixture Offset 70deg 8–8 Fixture Offset 80deg 9–9 Fixture Offset 90deg 10–10 Fixture Offset 100deg 11–11 Fixture Offset 110deg 12–12 Fixture Offset 120deg 13–13 Fixture Offset 130deg 14–14 Fixture Offset 140deg 15–15 Fixture Offset 150deg 16–16 Fixture Offset 160deg 17–17 Fixture Offset 170deg 18–18 Fixture Offset 180deg 19–19 Fixture Offset 190deg 20–20 Fixture Offset 200deg 21–21 Fixture Offset 210deg 22–22 Fixture Offset 220deg 23–23 Fixture Offset 230deg 24–24 Fixtrue Offset 240deg 25–25 Fixture Offset 250deg 26–26 Fixture Offset 260deg 27–27 Fixture Offset 270deg 28–28 Fixture Offset 280deg 29–29 Fixture Offset 290deg 30–30 Fixture Offset 300deg 31–31 Fixture Offset 310deg 32–32 Fixture Offset 320deg 33–33 Fixture Offset 330deg 34–34 Fixture Offset 340deg 35–35 Fixture Offset 350deg 36–100 Synchronized 101–120 Random Start 121–255 Random Duration

Extended

58 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
12	Color Wheel	0	0–7 Open (wheel slot 1) 8–22 Spectral Enhancement (wheel slot 2) 23–37 Blue (wheel slot 3) 38–52 Deep Green (wheel slot 4) 53–67 Orange (wheel slot 5) 68–82 Navy Blue (wheel slot 6) 83–97 Deep Red (wheel slot 7) 98–104 Open (wheel slot 1) 105–160 No Function 161–163 Spectral Enhancement (wheel slot 2) 164–166 Blue (wheel slot 3) 167–169 Deep Green (wheel slot 4) 170–172 Orange (wheel slot 5) 173–175 Navy Blue (wheel slot 6) 176–178 Deep Red (wheel slot 7) 179–192 Open (wheel slot 1) 193–202 CW Max 203–213 CW Med 214–214 CW Min 215–221 Stop 222–232 CCW Min 233–242 CCW Med 243–243 CCW Max 244–248 Fast 249–254 Medium 255–255 Slow

Extended (continued)

Ch	Function	Default	DMX values
13	Gobo	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max
14	Gobo Rotation	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
15	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
16	Gobo 2	0	0–9 Open (wheel slot 1) 10–14 Gobo 1 (wheel slot 2) 15–19 Gobo 2 (wheel slot 3) 20–24 Gobo 3 (wheel slot 4) 25–29 Gobo 4 (wheel slot 5) 30–34 Gobo 5 (wheel slot 6) 35–39 Gobo 1 (wheel slot 2) 40–44 Gobo 2 (wheel slot 3) 45–49 Gobo 3 (wheel slot 4) 50–54 Gobo 4 (wheel slot 5) 55–59 Gobo 5 (wheel slot 6) 60–89 Gobo 1 (wheel slot 2) 90–119 Gobo 2 (wheel slot 3) 120–149 Gobo 3 (wheel slot 4) 150–179 Gobo 4 (wheel slot 5) 180–209 Gobo 5 (wheel slot 6) 210–220 CW Max 221–231 CW Med 232–232 CW Min 233–243 CCW Min 244–254 CCW Med 255–255 CCW Max

Extended (continued)

Ch	Function	Default	DMX values
17	Gobo Rotation 2	128	0–1 200 deg 2–11 CW Max 12–62 180 deg 63–69 CW Med 70–124 90 deg 125–127 CW Min 128–184 0 deg 185–189 -90 deg 190–242 CCW Med 243–251 -180 deg 252–254 CCW Max 255–255 -200 deg
18	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2
19	Animation Wheel1	0	0–5 Open (wheel slot 1) 6–10 Horizontal Indexing (wheel slot 2) 11–15 Horizontal Rotation (wheel slot 2) 16–20 Vertical Rotation (wheel slot 2) 21–25 Vertical Indexing (wheel slot 2) 26–26 Angled Rotation Out (wheel slot 1) 27–59 Angled Rotation Inserting (wheel slot 2) 60–60 Angled Rotation Horizontal (wheel slot 2) 61–109 Angled Rotation Diagonal (wheel slot 2) 110–110 Angled Rotation Vertical (wheel slot 2) 111–111 Angled Indexing Vertical (wheel slot 2) 112–198 Angled Indexing Diagonal (wheel slot 2) 199–199 Angled Indexing Horizontal (wheel slot 2) 200–254 Angled Indexing Inserting (wheel slot 2) 255–255 Angled Indexing Out (wheel slot 1)
20	Animation Wheel1Pos	128	0–2 180 deg 3–63 CW Max 64–125 90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 -90 deg 253–253 CCW Max 254–254 Stop 90 255–255 -180 deg
21	Frost1	0	0–63 Open 64–127 25% 128–191 50% 192–254 75% 255–255 Full
22	Prism	0	0–10 Open (wheel slot 1) 11–138 Prism Index (wheel slot 2) 139–255 Prism Rotation (wheel slot 2)
23	Prism Rotation	128	0–2 -180 deg 3–63 CW Max 64–125 -90 deg 126–126 CW Min 127–127 Stop 128–129 0 deg 130–191 CCW Min 192–252 90 deg 253–253 CCW Max 254–254 Stop 45 255–255 180 deg

Extended (continued)

Ch	Function	Default	DMX values
24	Iris	0	0–49 Open 50–99 25% 100–149 50% 150–199 75% 200–212 Closed 213–224 Medium 225–242 Slow 243–254 Medium 255–255 Fast
25	Iris Fine	0	Fine byte of Iris
26	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow
27	Zoom Fine	0	Fine byte of Zoom
28	Focus	128	0–127 Far 128–254 Medium 255–255 Near
29	Focus Fine	0	Fine byte of Focus
30	Blade3A	0	0–127 Min 128–254 Med 255–255 Max
31	Blade3A Fine	0	Fine byte of Blade3A
32	Blade3Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
33	Blade3Rot Fine	0	Fine byte of Blade3Rot
34	Blade4A	0	0–127 Min 128–254 Med 255–255 Max
35	Blade4A Fine	0	Fine byte of Blade4A
36	Blade4Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
37	Blade4Rot Fine	0	Fine byte of Blade4Rot
38	Blade1A	0	0–127 Min 128–254 Med 255–255 Max
39	Blade1A Fine	0	Fine byte of Blade1A
40	Blade1Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
41	Blade1Rot Fine	0	Fine byte of Blade1Rot
42	Blade2A	0	0–127 Min 128–254 Med 255–255 Max
43	Blade2A Fine	0	Fine byte of Blade2A
44	Blade2Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
45	Blade2Rot Fine	0	Fine byte of Blade2Rot
46	Shaper Rot	128	0–127 CCW Max 128–254 Parallel 255–255 CW Max
47	Shaper Rot Fine	0	Fine byte of Shaper Rot

Extended (continued)

Ch	Function	Default	DMX values
48	Pan	128	
49	Pan Fine	0	Fine byte of Pan
50	Tilt	128	
51	Tilt Fine	0	Fine byte of Tilt
52	Control1	0	
53	P3Mix	0	0–26 DMX Mode 27–126 DMX 127–227 Mix 228–228 Video 229–255 Video Mode

Extended (continued)

Ch	Function	Default	DMX values
54	Effect	0	0–0 No Effect 1–1 Strobe Pulse Width 2–2 Wave 3–3 Step 4–4 Pulse 5–5 Blackout Strobe 6–6 2x Strobe 7–7 3x Strobe 8–8 4x Strobe 9–9 Up Down Flash 10–10 Up Flash Down Flash 11–11 Random Levels 12–12 Electric Arc 13–13 Atomic Lighting 14–14 Thunderstorm 15–15 Welding 16–31 No Function 32–32 Stop Motion 33–33 Movie Flicker 34–34 Random Dimmers 35–35 Shakey Dimmers 36–36 Negative Pulse 37–37 Positive Pulse 38–38 Radar Wave 39–39 Radar Step 40–40 Radar Pulse 41–41 OddEven Wave 42–42 OddEven Step 43–43 OddEven Pulse 44–44 5 Step Wave 45–45 5 Step Step 46–46 5 Step Pulse 47–63 No Function 1 64–64 Rainbow Wave 65–65 Rainbow Step 66–66 Rainbow Pulse 67–67 RGB Wave 68–68 RGB Step 69–69 RGB Pulse 70–70 CMY Wave 71–71 CMY Step 72–72 CMY Pulse 73–73 Mix to White Wave 74–74 Mix to White Step 75–75 Mix to White Pulse 76–76 Random Mix Wave 77–77 Random Mix Step 78–78 Random Mix Pulse 79–79 Random Subtle Wave 80–80 RedWhiteBlue Fade 81–81 RedWhiteBlue Snap 82–82 Full Bumps 83–83 All Bumps 84–84 Split Bumps 85–85 Random Split Bumps 86–86 Color Shaker 87–87 Fire 88–88 Water 89–89 Ice 90–90 Hot and Cold 91–91 Warm and Fuzzy 92–95 No Function 2 96–96 Iris Wave 97–97 Iris Step

Extended (continued)

Ch	Function	Default	DMX values
55	Effect Speed	128	0–63 Rev Max 64–125 Rev Med 126–126 Rev Min 127–127 Stop 128–128 3000 Hz 129–191 Fwd Min 192–254 Fwd Med 255–255 Fwd Max

Extended (continued)

Ch	Function	Default	DMX values
56	Effect 2	0	0–0 No Effect 1–1 Strobe Pulse Width 2–2 Wave 3–3 Step 4–4 Pulse 5–5 Blackout Strobe 6–6 2x Strobe 7–7 3x Strobe 8–8 4x Strobe 9–9 Up Down Flash 10–10 Up Flash Down Flash 11–11 Random Levels 12–12 Electric Arc 13–13 Atomic Lighting 14–14 Thunderstorm 15–15 Welding 16–31 No Function 32–32 Stop Motion 33–33 Movie Flicker 34–34 Random Dimmers 35–35 Shakey Dimmers 36–36 Negative Pulse 37–37 Positive Pulse 38–38 Radar Wave 39–39 Radar Step 40–40 Radar Pulse 41–41 OddEven Wave 42–42 OddEven Step 43–43 OddEven Pulse 44–44 5 Step Wave 45–45 5 Step Step 46–46 5 Step Pulse 47–63 No Function 1 64–64 Rainbow Wave 65–65 Rainbow Step 66–66 Rainbow Pulse 67–67 RGB Wave 68–68 RGB Step 69–69 RGB Pulse 70–70 CMY Wave 71–71 CMY Step 72–72 CMY Pulse 73–73 Mix to White Wave 74–74 Mix to White Step 75–75 Mix to White Pulse 76–76 Random Mix Wave 77–77 Random Mix Step 78–78 Random Mix Pulse 79–79 Random Subtle Wave 80–80 RedWhiteBlue Fade 81–81 RedWhiteBlue Snap 82–82 Full Bumps 83–83 All Bumps 84–84 Split Bumps 85–85 Random Split Bumps 86–86 Color Shaker 87–87 Fire 88–88 Water 89–89 Ice 90–90 Hot and Cold 91–91 Warm and Fuzzy 92–95 No Function 2 96–96 Iris Wave 97–97 Iris Step

Extended (continued)

Ch	Function	Default	DMX values
57	Effect Speed 2	128	0–63 Rev Max 64–125 Rev Med 126–126 Rev Min 127–127 Stop 128–128 3000 Hz 129–191 Fwd Min 192–254 Fwd Med 255–255 Fwd Max
58	Effects Sync	36	0–0 No Sync 1–1 Fixture Offset 10deg 2–2 Fixture Offset 20deg 3–3 Fixture Offset 30deg 4–4 Fixture Offset 40deg 5–5 Fixture Offset 50deg 6–6 Fixture Offset 60deg 7–7 Fixture Offset 70deg 8–8 Fixture Offset 80deg 9–9 Fixture Offset 90deg 10–10 Fixture Offset 100deg 11–11 Fixture Offset 110deg 12–12 Fixture Offset 120deg 13–13 Fixture Offset 130deg 14–14 Fixture Offset 140deg 15–15 Fixture Offset 150deg 16–16 Fixture Offset 160deg 17–17 Fixture Offset 170deg 18–18 Fixture Offset 180deg 19–19 Fixture Offset 190deg 20–20 Fixture Offset 200deg 21–21 Fixture Offset 210deg 22–22 Fixture Offset 220deg 23–23 Fixture Offset 230deg 24–24 Fixtrue Offset 240deg 25–25 Fixture Offset 250deg 26–26 Fixture Offset 260deg 27–27 Fixture Offset 270deg 28–28 Fixture Offset 280deg 29–29 Fixture Offset 290deg 30–30 Fixture Offset 300deg 31–31 Fixture Offset 310deg 32–32 Fixture Offset 320deg 33–33 Fixture Offset 330deg 34–34 Fixture Offset 340deg 35–35 Fixture Offset 350deg 36–100 Synchronized 101–120 Random Start 121–255 Random Duration

Fixture model: gdtf-martin-professional-mac-ultra-performance-131139
Creator: HitLight
Modifications: Original HitLight 3D housing: scripted parametric geometry modelled by HitLight from public product photos and the manufactu...