Martin Professional

VDO Atomic Dot CLD



Manufacturer	**Martin Professional**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**1, 3, 4, 19 channels**
Beam angle	**11-110°**
Pan range	**360°**
Tilt range	**360°**
Size (W × H × D)	**133 × 112 × 133 mm**
GDTF fixture type	**5E5543F3-AEA4-424A-936B-2A…**

Controls

RGB colour mixing · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

1 Channel	1 ch
3 Channel	3 ch
4 Channel	4 ch
Basic	19 ch
Extended	19 ch

1 Channel

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open

3 Channel

3 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
2	Strobe Duration	255	0–254 Short 255–255 Long
3	Strobe Frequency	255	0–254 Slow 255–255 Fast

4 Channel

4 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
2	Strobe Duration	255	0–254 Short 255–255 Long
3	Strobe Frequency	255	0–254 Slow 255–255 Fast
4	Strobe Effects	0	0–5 No Effect 6–42 Ramp Up 43–85 Ramp Down 86–128 Ramp Up Down 129–171 Random 172–214 Lightning 215–255 Spikes

Basic

19 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer
3	Strobe Duration	255	0–254 Short 255–255 Long
4	Strobe Frequency	255	0–254 Slow 255–255 Fast

Basic (continued)

Ch	Function	Default	DMX values
5	Strobe Effects	0	0–5 No Effect 6–42 Ramp Up 43–85 Ramp Down 86–128 Ramp Up Down 129–171 Random 172–214 Lightning 215–255 Spikes
6	P3	27	0–26 DMX Mode 27–27 DMX 28–227 Mix 228–228 Video 229–255 Video Mode
7	Control1	0	0–9 Idle 10–14 Reset Entire Fixture (5s) 15–22 No Function 1 23–23 Linear (1s) 24–24 Square Law (1s) 25–25 Inverse Square Law (1s) 26–26 S-Curve (1s) 27–35 No Function 2 36–36 Enable (1s) 37–37 Disable (1s) 38–58 No Function 3 59–59 LED (1s) 60–60 Xenon (1s) 61–255 No Function 4

Basic (continued)

Ch	Function	Default	DMX values
8	Effect	0	0–0 No Effect 1–1 Beam Wave 2–2 Beam Step 3–3 Beam Pulse 4–4 Beam Blackout Strobe 5–5 Beam 2x Strobe 6–6 Beam 3x Strobe 7–7 Beam 4x Strobe 8–8 Beam Up Down Flash 9–9 Beam Up Flash Down Flash 10–10 Beam Random Levels 11–11 Beam HouseLight 12–12 Beam Threshold Strobe 13–13 Beam Threshold On 14–15 No Function 1 16–16 Backlight Wave 17–17 Backlight Step 18–18 Backlight Pulse 19–19 Backlight Blackout Strobe 20–20 Backlight 2x Strobe 21–21 Backlight 3x Strobe 22–22 Backlight 4x Strobe 23–23 Backlight Up Down Flash 24–24 Backlight Up Flash Down Flash 25–25 Backlight Random Levels 26–26 Backlight Noise Overlay 27–27 Backlight PixelKiller 28–28 Backlight Build UpDown 29–29 Backlight Ring Wave 30–30 Backlight Ring Step 31–31 Backlight Ring Pulse 32–32 Backlight Waterdrop 33–33 Backlight Sonar 1 34–34 Backlight Sonar 2 35–35 Backlight Sonar 3 36–36 Backlight Sonar 6 37–37 Backlight Sonar 9 38–38 Backlight Slice Pie Chase 39–39 Backlight Random Chase 40–40 Backlight Movie Flicker 41–41 Backlight Electric Arc 42–42 Backlight Atomic Lighting 43–43 Backlight Thunderstorm 44–47 No Function 2 48–48 Backlight Rainbow Wave 49–49 Backlight Rainbow Step 50–50 Backlight Rainbow Pulse 51–51 Backlight RGB Wave 52–52 Backlight RGB Step 53–53 Backlight RGB Pulse 54–54 Backlight CMY Wave 55–55 Backlight CMY Step 56–56 Backlight CMY Pulse 57–57 Backlight Random Wave 58–58 Backlight Random Step 59–59 Backlight Random Pulse 60–60 Backlight Solid 61–61 Backlight Spectrum Shifter 62–62 Backlight RGB to White Wave 63–63 Backlight RGB to White Step 64–64 Backlight RGB to White Pulse 65–65 Backlight RGB to White Strobe 66–66 Backlight Normal to White Wave 67–67 Backlight Normal to White Step

Basic (continued)

Ch	Function	Default	DMX values
9	Effect Speed	192	0–63 Rev Max 64–125 Rev Med 126–126 Rev Min 127–127 Stop 128–128 3000 Hz 129–129 No Function 1 130–191 Fwd Min 192–254 Fwd Med 255–255 Fwd Max
10	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
11	Shutter / Strobe	0	0–49 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 0.25–2.52 Hz 233–254 Strobe Random · Medium 2.63–4.89 Hz 255–255 Strobe Random · Fast 5 Hz
12	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open

Basic (continued)

Ch	Function	Default	DMX values
13	Dimmer Fine	0	Fine byte of Dimmer
14	C TC	0	
15	Color Wheel 2	0	0–10 Open (wheel slot 1) 11–15 Moroccan Pink (wheel slot 2) 16–20 Pink (wheel slot 3) 21–25 Special Rose Pink (wheel slot 4) 26–30 Follies Pink (wheel slot 5) 31–35 Fuchsia Pink (wheel slot 6) 36–40 Surprise Pink (wheel slot 7) 41–45 Congo Blue (wheel slot 8) 46–50 Tokyo Blue (wheel slot 9) 51–55 Deep Blue (wheel slot 10) 56–60 Just Blue (wheel slot 11) 61–65 Medium Blue (wheel slot 12) 66–70 Double CT Blue (wheel slot 13) 71–75 Slate Blue (wheel slot 14) 76–80 Full CT Blue (wheel slot 15) 81–85 Half CT Blue (wheel slot 16) 86–90 Steel Blue (wheel slot 17) 91–95 Lighter Blue (wheel slot 18) 96–100 Light Blue (wheel slot 19) 101–105 Medium Blue Green (wheel slot 20) 106–110 Dark Green (wheel slot 21) 111–115 Primary Green (wheel slot 22) 116–120 Moss Green (wheel slot 23) 121–125 Fern Green (wheel slot 24) 126–130 Jas Green (wheel slot 25) 131–135 Lime Green (wheel slot 26) 136–140 Spring Yellow (wheel slot 27) 141–145 Deep Amber (wheel slot 28) 146–150 Chrome Orange (wheel slot 29) 151–155 Orange (wheel slot 30) 156–160 Gold Amber (wheel slot 31) 161–165 Millennium Gold (wheel slot 32) 166–170 Deep Golden Amber (wheel slot 33) 171–175 Flame Red (wheel slot 34) 176–180 Red Magenta (wheel slot 35) 181–185 Medium Lavender (wheel slot 36) 186–190 Pure White (wheel slot 37) 191–202 CW Max 203–213 CW Med 214–214 CW Min 215–219 Stop 220–230 CCW Min 231–242 CCW Med 243–243 CCW Max 244–248 Fast 249–254 Medium 255–255 Slow
16	P3	27	0–26 DMX Mode 27–27 DMX 28–227 Mix 228–228 Video 229–255 Video Mode
17	Color RGBRed	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max

Basic (continued)

Ch	Function	Default	DMX values
18	Color RGBGreen	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
19	Color RGBBlue	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max

Extended

19 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer
3	Strobe Duration	255	0–254 Short 255–255 Long
4	Strobe Frequency	255	0–254 Slow 255–255 Fast
5	Strobe Effects	0	0–5 No Effect 6–42 Ramp Up 43–85 Ramp Down 86–128 Ramp Up Down 129–171 Random 172–214 Lightning 215–255 Spikes
6	P3	27	0–26 DMX Mode 27–27 DMX 28–227 Mix 228–228 Video 229–255 Video Mode
7	Control1	0	0–9 Idle 10–14 Reset Entire Fixture (5s) 15–22 No Function 1 23–23 Linear (1s) 24–24 Square Law (1s) 25–25 Inverse Square Law (1s) 26–26 S-Curve (1s) 27–35 No Function 2 36–36 Enable (1s) 37–37 Disable (1s) 38–58 No Function 3 59–59 LED (1s) 60–60 Xenon (1s) 61–255 No Function 4

Extended (continued)

Ch	Function	Default	DMX values
8	Effect	0	0–0 No Effect 1–1 Beam Wave 2–2 Beam Step 3–3 Beam Pulse 4–4 Beam Blackout Strobe 5–5 Beam 2x Strobe 6–6 Beam 3x Strobe 7–7 Beam 4x Strobe 8–8 Beam Up Down Flash 9–9 Beam Up Flash Down Flash 10–10 Beam Random Levels 11–11 Beam HouseLight 12–12 Beam Threshold Strobe 13–13 Beam Threshold On 14–15 No Function 1 16–16 Backlight Wave 17–17 Backlight Step 18–18 Backlight Pulse 19–19 Backlight Blackout Strobe 20–20 Backlight 2x Strobe 21–21 Backlight 3x Strobe 22–22 Backlight 4x Strobe 23–23 Backlight Up Down Flash 24–24 Backlight Up Flash Down Flash 25–25 Backlight Random Levels 26–26 Backlight Noise Overlay 27–27 Backlight PixelKiller 28–28 Backlight Build UpDown 29–29 Backlight Ring Wave 30–30 Backlight Ring Step 31–31 Backlight Ring Pulse 32–32 Backlight Waterdrop 33–33 Backlight Sonar 1 34–34 Backlight Sonar 2 35–35 Backlight Sonar 3 36–36 Backlight Sonar 6 37–37 Backlight Sonar 9 38–38 Backlight Slice Pie Chase 39–39 Backlight Random Chase 40–40 Backlight Movie Flicker 41–41 Backlight Electric Arc 42–42 Backlight Atomic Lighting 43–43 Backlight Thunderstorm 44–47 No Function 2 48–48 Backlight Rainbow Wave 49–49 Backlight Rainbow Step 50–50 Backlight Rainbow Pulse 51–51 Backlight RGB Wave 52–52 Backlight RGB Step 53–53 Backlight RGB Pulse 54–54 Backlight CMY Wave 55–55 Backlight CMY Step 56–56 Backlight CMY Pulse 57–57 Backlight Random Wave 58–58 Backlight Random Step 59–59 Backlight Random Pulse 60–60 Backlight Solid 61–61 Backlight Spectrum Shifter 62–62 Backlight RGB to White Wave 63–63 Backlight RGB to White Step 64–64 Backlight RGB to White Pulse 65–65 Backlight RGB to White Strobe 66–66 Backlight Normal to White Wave 67–67 Backlight Normal to White Step

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10	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
11	Shutter / Strobe	0	0–49 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 0.25–2.52 Hz 233–254 Strobe Random · Medium 2.63–4.89 Hz 255–255 Strobe Random · Fast 5 Hz
12	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open

Extended (continued)

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14	C TC	0	
15	Color Wheel 2	0	0–10 Open (wheel slot 1) 11–15 Moroccan Pink (wheel slot 2) 16–20 Pink (wheel slot 3) 21–25 Special Rose Pink (wheel slot 4) 26–30 Follies Pink (wheel slot 5) 31–35 Fuchsia Pink (wheel slot 6) 36–40 Surprise Pink (wheel slot 7) 41–45 Congo Blue (wheel slot 8) 46–50 Tokyo Blue (wheel slot 9) 51–55 Deep Blue (wheel slot 10) 56–60 Just Blue (wheel slot 11) 61–65 Medium Blue (wheel slot 12) 66–70 Double CT Blue (wheel slot 13) 71–75 Slate Blue (wheel slot 14) 76–80 Full CT Blue (wheel slot 15) 81–85 Half CT Blue (wheel slot 16) 86–90 Steel Blue (wheel slot 17) 91–95 Lighter Blue (wheel slot 18) 96–100 Light Blue (wheel slot 19) 101–105 Medium Blue Green (wheel slot 20) 106–110 Dark Green (wheel slot 21) 111–115 Primary Green (wheel slot 22) 116–120 Moss Green (wheel slot 23) 121–125 Fern Green (wheel slot 24) 126–130 Jas Green (wheel slot 25) 131–135 Lime Green (wheel slot 26) 136–140 Spring Yellow (wheel slot 27) 141–145 Deep Amber (wheel slot 28) 146–150 Chrome Orange (wheel slot 29) 151–155 Orange (wheel slot 30) 156–160 Gold Amber (wheel slot 31) 161–165 Millennium Gold (wheel slot 32) 166–170 Deep Golden Amber (wheel slot 33) 171–175 Flame Red (wheel slot 34) 176–180 Red Magenta (wheel slot 35) 181–185 Medium Lavender (wheel slot 36) 186–190 Pure White (wheel slot 37) 191–202 CW Max 203–213 CW Med 214–214 CW Min 215–219 Stop 220–230 CCW Min 231–242 CCW Med 243–243 CCW Max 244–248 Fast 249–254 Medium 255–255 Slow
16	P3	27	0–26 DMX Mode 27–27 DMX 28–227 Mix 228–228 Video 229–255 Video Mode
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19	Color RGBBlue	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max