Clay Paky

Volero Twins



Manufacturer	**Clay Paky**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**1, 4, 25, 43, 50 channels**
Beam angle	**5-50°**
Pan range	**540°**
Tilt range	**180°**
Heads / cells	**2**
Size (W × H × D)	**445 × 282 × 240 mm**
GDTF fixture type	**F1D3D066-5D3F-4182-920A-32…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Strobe · Dimmer · Pixel control · Pan and tilt

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Strobe	1 ch
RGBW	4 ch
Basic	25 ch
Standard	43 ch
Advanced	50 ch

Strobe

1 channel

Ch	Function	Default	DMX values
1	White	0	0–254 0% (wheel slot 5) 255–255 100%

RGBW

4 channels

Ch	Function	Default	DMX values
1	Red	0	
2	Green	0	
3	Blue	0	
4	White	0	

Basic

25 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Pan Rotate	0	0–0 No Rotation 1–255 Rot Slow>Fast
4	Pan Direction	0	0–127 CCW 128–255 CW
5	Tilt	128	
6	Tilt Fine	0	Fine byte of Tilt
7	Zoom	255	0–254 Wide 255–255 Narrow
8	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)
9	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
10	Dimmer Fine	0	Fine byte of Dimmer

Basic (continued)

Ch	Function	Default	DMX values
11	Control1	0	0–4 Home-Zero (wheel slot 1) 5–9 Auto # (wheel slot 1) 10–14 Silent (wheel slot 1) 15–19 Theatre (wheel slot 1) 20–24 Constant 25–34 Empty Channel Set 35–39 Dim Curve 1 # 40–44 Dim Curve 2 45–49 Dim Curve 3 50–54 Dim Curve 4 55–59 Dim Curve 5 60–69 Empty Channel Set 70–74 Gamma 1 75–79 Gamma 1_5 80–84 Gamma 2_2 # 85–89 Empty Channel Set 90–94 Freq 0 # (wheel slot 1) 95–99 Freq 1 (wheel slot 1) 100–104 Freq 2 (wheel slot 1) 105–109 Freq 3 (wheel slot 1) 110–114 Freq 4 (wheel slot 1) 115–119 Freq 5 (wheel slot 1) 120–129 Empty Channel Set 130–134 Display OFF # 135–139 Display ON 140–149 Empty Channel Set 150–154 Pan Disable 155–169 Pan Enable # 170–174 Invert Pan OFF # 175–179 Invert Pan ON 180–184 Invert Tilt OFF # 185–227 Invert Tilt ON 228–231 Zoom Reset 232–233 Pan Reset 234–235 Tilt Reset 236–251 P/T Reset 252–253 Complete Reset 254–255 Default Recall
12	Function	0	0–4 Home-Zero 5–9 RGBW Pix OFF # 10–14 RGBW Pix ON 15–19 Strobe Pix OFF # 20–39 Strobe Pix ON 40–44 Rev Map OFF # 45–149 Rev Map ON 150–154 ColCalib OFF # 155–159 ColCalib Factory 160–169 ColCalib Custom 170–174 Set Custom Calib @FullWhite 175–179 Set Custom Calib @3200K 180–249 Save Custom Calib 250–255 Default Recall
13	Red	0	0–254 0% (wheel slot 1) 255–255 100%
14	Green	0	0–254 0% (wheel slot 1) 255–255 100%
15	Blue	0	0–254 0% (wheel slot 1) 255–255 100%
16	White	0	0–254 0% (wheel slot 1) 255–255 100%

Basic (continued)

Ch	Function	Default	DMX values
17	C TO	0	0–9 CTO OFF 10–254 8000K (wheel slot 1) 255–255 2700K
18	Strobe Mode Effect	0	0–20 Open (wheel slot 1) 21–40 Closed 41–60 Open 2 61–80 Linear 81–100 Ramp Up 101–120 Ramp Down 121–140 Ramp Up/Down 141–160 Random 161–180 Lightning 181–200 Spikes 201–255 Open 3
19	Strobe Duration	0	0–254 20ms 255–255 1s
20	Strobe Frequency	0	0–254 0_3 Hz (wheel slot 5) 255–255 25 Hz
21	Dimmer	0	0–254 0% (wheel slot 5) 255–255 100%
22	Shape Mode	0	0–5 Normal (wheel slot 1) 6–130 Static (wheel slot 1) 131–255 Dynamic (wheel slot 1)
23	Shape Selection	0	
24	Shape Index Speed	0	0–124 Index 125–130 Stop 131–255 BW Slow>Fast
25	Shape Fade	0	0–5 OFF (wheel slot 1) 6–130 Fade (wheel slot 1) 131–255 Wake

Standard

43 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Pan Rotate	0	0–0 No Rotation 1–255 Rot Slow>Fast
4	Pan Direction	0	0–127 CCW 128–255 CW
5	Tilt	128	
6	Tilt Fine	0	Fine byte of Tilt
7	Zoom	255	0–254 Wide 255–255 Narrow
8	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)
9	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Standard (continued)

Ch	Function	Default	DMX values
10	Dimmer Fine	0	Fine byte of Dimmer
11	Control1	0	0–4 Home-Zero (wheel slot 1) 5–9 Auto # (wheel slot 1) 10–14 Silent (wheel slot 1) 15–19 Theatre (wheel slot 1) 20–24 Constant 25–34 Empty Channel Set 35–39 Dim Curve 1 # 40–44 Dim Curve 2 45–49 Dim Curve 3 50–54 Dim Curve 4 55–59 Dim Curve 5 60–69 Empty Channel Set 70–74 Gamma 1 75–79 Gamma 1_5 80–84 Gamma 2_2 # 85–89 Empty Channel Set 90–94 Freq 0 # (wheel slot 1) 95–99 Freq 1 (wheel slot 1) 100–104 Freq 2 (wheel slot 1) 105–109 Freq 3 (wheel slot 1) 110–114 Freq 4 (wheel slot 1) 115–119 Freq 5 (wheel slot 1) 120–129 Empty Channel Set 130–134 Display OFF # 135–139 Display ON 140–149 Empty Channel Set 150–154 Pan Disable 155–169 Pan Enable # 170–174 Invert Pan OFF # 175–179 Invert Pan ON 180–184 Invert Tilt OFF # 185–227 Invert Tilt ON 228–231 Zoom Reset 232–233 Pan Reset 234–235 Tilt Reset 236–251 P/T Reset 252–253 Complete Reset 254–255 Default Recall
12	Function	0	0–4 Home-Zero 5–9 RGBW Pix OFF # 10–14 RGBW Pix ON 15–19 Strobe Pix OFF # 20–39 Strobe Pix ON 40–44 Rev Map OFF # 45–149 Rev Map ON 150–154 ColCalib OFF # 155–159 ColCalib Factory 160–169 ColCalib Custom 170–174 Set Custom Calib @FullWhite 175–179 Set Custom Calib @3200K 180–249 Save Custom Calib 250–255 Default Recall
13	Red	0	0–254 0% (wheel slot 1) 255–255 100%
14	Red Fine	0	Fine byte of Red
15	Green	0	0–254 0% (wheel slot 1) 255–255 100%
16	Green Fine	0	Fine byte of Green

Standard (continued)

Ch	Function	Default	DMX values
17	Blue	0	0–254 0% (wheel slot 1) 255–255 100%
18	Blue Fine	0	Fine byte of Blue
19	White	0	0–254 0% (wheel slot 1) 255–255 100%
20	White Fine	0	Fine byte of White
21	C TO	0	0–9 CTO OFF 10–254 8000K (wheel slot 1) 255–255 2700K
22	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)
23	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
24	Red	0	0–254 0% (wheel slot 1) 255–255 100%
25	Green	0	0–254 0% (wheel slot 1) 255–255 100%
26	Blue	0	0–254 0% (wheel slot 1) 255–255 100%
27	White	0	0–254 0% (wheel slot 1) 255–255 100%
28	C TO	0	0–9 CTO OFF 10–254 8000K (wheel slot 1) 255–255 2700K
29	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–215 Shape Master when dimmer@0 216–220 Shape Slave when dimmer@0 221–255 Open 3 (wheel slot 1)
30	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
31	Shape Mode	0	0–5 OFF (wheel slot 1) 6–130 Static (wheel slot 1) 131–255 Dynamic (wheel slot 1)

Standard (continued)

Ch	Function	Default	DMX values
32	Shape Selection	0	0–4 Shape 1 (wheel slot 1) 5–9 Shape 2 10–14 Shape 3 15–19 Shape 4 20–24 Shape 5 25–29 Shape 6 30–34 Shape 7 35–39 Shape 8 40–44 Shape 9 45–49 Shape 10 50–54 Shape 11 55–59 Shape 12 60–64 Shape 13 65–69 Shape 14 70–74 Shape 15 75–79 Shape 16 80–84 Shape 17 85–89 Shape 18 90–94 Shape 19 95–99 Shape 20 100–104 Shape 21 105–109 Shape 22 110–114 Shape 23 115–119 Shape 24 120–124 Shape 25 125–129 Shape 26 130–134 Shape 27 135–139 Shape 28 140–144 Shape 29 145–149 Shape 30 150–154 Shape 31 155–159 Shape 32 160–164 Shape 33 165–169 Shape 34 170–174 Shape 35 175–179 Shape 36 180–184 Shape 37 185–189 Shape 38 190–194 Shape 39 195–199 Shape 40 200–204 Shape 41 205–209 Shape 42 210–255 Shape 43
33	Shape Index Speed	0	0–124 Index 125–130 Stop 131–255 BW Slow>Fast
34	Shape Fade	0	0–5 OFF (wheel slot 1) 6–130 Fade (wheel slot 1) 131–255 Wake
35	Shape Crossfade	0	0–254 0s (wheel slot 1) 255–255 3s

Standard (continued)

Ch	Function	Default	DMX values
36	Strobe Mode Effect	0	0–20 Open (wheel slot 1) 21–40 Closed 41–60 Open 2 61–80 Linear 81–100 Ramp Up 101–120 Ramp Down 121–140 Ramp Up/Down 141–160 Random 161–180 Lightning 181–200 Spikes 201–255 Open 3
37	Strobe Duration	0	0–254 20ms 255–255 1s
38	Strobe Frequency	0	0–254 0_3 Hz (wheel slot 5) 255–255 25 Hz
39	Dimmer	0	0–254 0% (wheel slot 5) 255–255 100%
40	Shape Mode	0	0–5 Normal (wheel slot 1) 6–130 Static (wheel slot 1) 131–255 Dynamic (wheel slot 1)
41	Shape Selection	0	
42	Shape Index Speed	0	0–124 Index 125–130 Stop 131–255 BW Slow>Fast
43	Shape Fade	0	0–5 OFF (wheel slot 1) 6–130 Fade (wheel slot 1) 131–255 Wake

Advanced

50 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Pan Rotate	0	0–0 No Rotation 1–255 Rot Slow>Fast
4	Pan Direction	0	0–127 CCW 128–255 CW
5	Tilt	128	
6	Tilt Fine	0	Fine byte of Tilt
7	Zoom	255	0–254 Wide 255–255 Narrow
8	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
9	Dimmer Fine	0	Fine byte of Dimmer

Advanced (continued)

Ch	Function	Default	DMX values
10	Control1	0	0–4 Home-Zero (wheel slot 1) 5–9 Auto # (wheel slot 1) 10–14 Silent (wheel slot 1) 15–19 Theatre (wheel slot 1) 20–24 Constant 25–34 Empty Channel Set 35–39 Dim Curve 1 # 40–44 Dim Curve 2 45–49 Dim Curve 3 50–54 Dim Curve 4 55–59 Dim Curve 5 60–69 Empty Channel Set 70–74 Gamma 1 75–79 Gamma 1_5 80–84 Gamma 2_2 # 85–89 Empty Channel Set 90–94 Freq 0 # (wheel slot 1) 95–99 Freq 1 (wheel slot 1) 100–104 Freq 2 (wheel slot 1) 105–109 Freq 3 (wheel slot 1) 110–114 Freq 4 (wheel slot 1) 115–119 Freq 5 (wheel slot 1) 120–129 Empty Channel Set 130–134 Display OFF # 135–139 Display ON 140–149 Empty Channel Set 150–154 Pan Disable 155–169 Pan Enable # 170–174 Invert Pan OFF # 175–179 Invert Pan ON 180–184 Invert Tilt OFF # 185–227 Invert Tilt ON 228–231 Zoom Reset 232–233 Pan Reset 234–235 Tilt Reset 236–251 P/T Reset 252–253 Complete Reset 254–255 Default Recall
11	Function	0	0–4 Home-Zero 5–9 RGBW Pix OFF # 10–14 RGBW Pix ON 15–19 Strobe Pix OFF # 20–39 Strobe Pix ON 40–44 Rev Map OFF # 45–149 Rev Map ON 150–154 ColCalib OFF # 155–159 ColCalib Factory 160–169 ColCalib Custom 170–174 Set Custom Calib @FullWhite 175–179 Set Custom Calib @3200K 180–249 Save Custom Calib 250–255 Default Recall
12	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)

Advanced (continued)

Ch	Function	Default	DMX values
13	Dimmer	255	0–254 0% 255–255 100%
14	Dimmer Fine	255	Fine byte of Dimmer
15	Dummy	0	
16	Red	0	0–254 0% (wheel slot 1) 255–255 100%
17	Green	0	0–254 0% (wheel slot 1) 255–255 100%
18	Blue	0	0–254 0% (wheel slot 1) 255–255 100%
19	White	0	0–254 0% (wheel slot 1) 255–255 100%
20	C TO	0	0–9 CTO OFF 10–254 8000K (wheel slot 1) 255–255 2700K
21	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)
22	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
23	Red	0	0–254 0% (wheel slot 1) 255–255 100%
24	Green	0	0–254 0% (wheel slot 1) 255–255 100%
25	Blue	0	0–254 0% (wheel slot 1) 255–255 100%
26	White	0	0–254 0% (wheel slot 1) 255–255 100%
27	C TO	0	0–9 CTO OFF 10–254 8000K (wheel slot 1) 255–255 2700K
28	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–215 Shape Master when dimmer@0 216–220 Shape Slave when dimmer@0 221–255 Open 3 (wheel slot 1)
29	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%
30	Shape Mode	0	0–5 OFF (wheel slot 1) 6–130 Static (wheel slot 1) 131–255 Dynamic (wheel slot 1)

Advanced (continued)

Ch	Function	Default	DMX values
31	Shape Selection	0	0–4 Shape 1 (wheel slot 1) 5–9 Shape 2 10–14 Shape 3 15–19 Shape 4 20–24 Shape 5 25–29 Shape 6 30–34 Shape 7 35–39 Shape 8 40–44 Shape 9 45–49 Shape 10 50–54 Shape 11 55–59 Shape 12 60–64 Shape 13 65–69 Shape 14 70–74 Shape 15 75–79 Shape 16 80–84 Shape 17 85–89 Shape 18 90–94 Shape 19 95–99 Shape 20 100–104 Shape 21 105–109 Shape 22 110–114 Shape 23 115–119 Shape 24 120–124 Shape 25 125–129 Shape 26 130–134 Shape 27 135–139 Shape 28 140–144 Shape 29 145–149 Shape 30 150–154 Shape 31 155–159 Shape 32 160–164 Shape 33 165–169 Shape 34 170–174 Shape 35 175–179 Shape 36 180–184 Shape 37 185–189 Shape 38 190–194 Shape 39 195–199 Shape 40 200–204 Shape 41 205–209 Shape 42 210–255 Shape 43
32	Shape Index Speed	0	0–124 Index 125–130 Stop 131–255 BW Slow>Fast
33	Shape Fade	0	0–5 OFF (wheel slot 1) 6–130 Fade (wheel slot 1) 131–255 Wake
34	Shape Crossfade	0	0–254 0s (wheel slot 1) 255–255 3s
35	Shutter / Strobe	0	0–10 Open 11–20 Closed (wheel slot 1) 21–30 Open 2 31–129 Linear strobe · Linear Slow 1–24.8 Hz 130–130 Linear strobe · Linear Fast 25 Hz 131–140 Pixels Master when dimmer@0 141–150 Pixels Slave when dimmer@0 151–255 Open 3 (wheel slot 1)
36	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Advanced (continued)

Ch	Function	Default	DMX values
37	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–255 Open 3 (wheel slot 1)
38	Dimmer	255	0–254 0% (wheel slot 5) 255–255 100%
39	Strobe Mode Effect	0	0–20 Open (wheel slot 1) 21–40 Closed 41–60 Open 2 61–80 Linear 81–100 Ramp Up 101–120 Ramp Down 121–140 Ramp Up/Down 141–160 Random 161–180 Lightning 181–200 Spikes 201–255 Open 3
40	Strobe Duration	0	0–254 20ms 255–255 1s
41	Strobe Frequency	0	0–254 0_3 Hz (wheel slot 5) 255–255 25 Hz
42	Dimmer	0	0–254 0% 255–255 100%
43	Shutter / Strobe	0	0–5 Open 6–15 Closed (wheel slot 1) 16–114 Linear strobe · Linear Slow 1–24.8 Hz 115–115 Linear strobe · Linear Fast 25 Hz 116–120 Open 2 (wheel slot 1) 121–150 Random · Rndm Slow 1–8.82 Hz 151–180 Random · Rndm Med 9.09–16.9 Hz 181–210 Random · Rndm Fast 17.2–25 Hz 211–215 StShape Master when dimmer@0 216–220 StShape Slave when dimmer@0 221–255 Open 3 (wheel slot 1)
44	Dimmer	0	0–254 0% 255–255 100%
45	Shape Mode	0	0–5 Normal (wheel slot 1) 6–130 Static (wheel slot 1) 131–255 Dynamic (wheel slot 1)
46	Shape Selection	0	
47	Shape Index Speed	0	0–124 Index 125–130 Stop 131–255 BW Slow>Fast
48	Shape Fade	0	0–5 OFF (wheel slot 1) 6–130 Fade (wheel slot 1) 131–255 Wake

Advanced (continued)

Ch	Function	Default	DMX values
49	Shutter / Strobe	0	0–10 Open 11–20 Closed (wheel slot 1) 21–30 Open 2 31–129 Linear strobe · Linear Slow 1–24.8 Hz 130–130 Linear strobe · Linear Fast 25 Hz 131–140 Pixels Master when dimmer@0 141–150 Pixels Slave when dimmer@0 151–255 Open 3 (wheel slot 1)
50	Dimmer	0	0–254 0% 255–255 100%