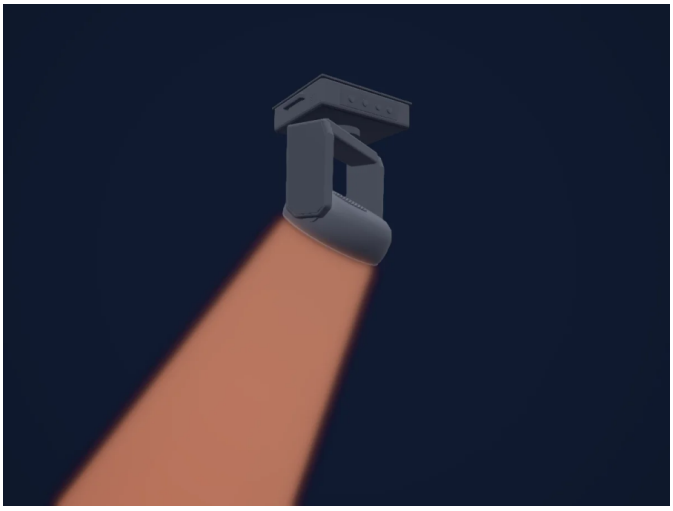
Clay Paky

K-EYE K20 HCR



Manufacturer	**Clay Paky**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**19, 32 channels**
Beam angle	**4.4-53.2°**
Pan range	**540°**
Tilt range	**210°**
Size (W × H × D)	**400 × 143 × 400 mm**
GDTF fixture type	**AC9B4B57-9737-4B31-8E8F-D9…**

Controls

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

Safety-relevant functions

Fixture reset

DMX modes

Basic HSV	19 ch
Basic RGB	19 ch
Extended HSV	32 ch
Extended RAW	32 ch
Extended RGB	32 ch

Basic HSV

19 channels

Ch	Function	Default	DMX values
1	H SBHue	0	
2	H SBHue Fine	0	Fine byte of H SBHue
3	H SBSaturation	0	0–254 Pure Color 255–255 White
4	C TO	0	0–0 No CTO 1–46 8000K 47–92 7000K 93–111 6000K 112–138 5600K 139–185 5000K 186–221 4000K 222–254 3200K 255–255 2500K
5	Color Macro1	0	
6	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–3.88 Hz 24–43 Strobe · x2 Strb>> 4.03–6.91 Hz 44–63 Strobe · x3 Strb>> 7.06–9.94 Hz 64–83 Strobe · x4 Strb>> 10.1–13 Hz 84–103 Strobe · x5 Strb>> 13.1–16 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Reserved 9	0	
10	Reserved 10	0	
11	Tint	128	0–127 Tint <<M 128–128 Tint OFF 129–255 Tint G>>
12	Pan	128	
13	Pan Fine	0	Fine byte of Pan
14	Tilt	128	
15	Tilt Fine	0	Fine byte of Tilt
16	Zoom	0	0–254 Narrow 255–255 Wide

Basic HSV (continued)

Ch	Function	Default	DMX values
17	Function	0	0–11 No Function 12–24 Fast Pan/Tilt 25–37 Normal Pan/Tilt 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 1-5 68–72 Gamma Curve 2-2 73–77 Halo OFF 78–82 Halo 750W 83–87 Halo 1000W 88–92 Halo 1200W 93–97 Halo 2000W 98–102 Halo 2500W 103–105 No Function 106–108 RAW 109–111 RGB 112–114 CMY 115–122 No Function 123–123 CTO Filt 124–124 CTO White 125–163 No Function 164–164 1000Hz 165–165 1500Hz 166–166 2400Hz 167–167 3700Hz 168–168 5600Hz 169–169 9400Hz 170–170 15100Hz 171–171 21400Hz 172–172 31000Hz 173–173 43700Hz 174–250 No Function 251–255 Default Recall
18	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
19	L EDFrequency	128	

Basic RGB

19 channels

Ch	Function	Default	DMX values
1	Red	255	0–254 0% 255–255 100%
2	Green	255	0–254 0% 255–255 100%
3	Blue	255	0–254 0% 255–255 100%

Basic RGB (continued)

Ch	Function	Default	DMX values
4	C TO	0	0–0 No CTO 1–46 8000K 47–92 7000K 93–111 6000K 112–138 5600K 139–185 5000K 186–221 4000K 222–254 3200K 255–255 2500K
5	Color Macro1	0	
6	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–3.88 Hz 24–43 Strobe · x2 Strb>> 4.03–6.91 Hz 44–63 Strobe · x3 Strb>> 7.06–9.94 Hz 64–83 Strobe · x4 Strb>> 10.1–13 Hz 84–103 Strobe · x5 Strb>> 13.1–16 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Reserved 9	0	
10	Reserved 10	0	
11	Tint	128	0–127 Tint <<M 128–128 Tint OFF 129–255 Tint G>>
12	Pan	128	
13	Pan Fine	0	Fine byte of Pan
14	Tilt	128	
15	Tilt Fine	0	Fine byte of Tilt
16	Zoom	0	0–254 Narrow 255–255 Wide

Basic RGB (continued)

Ch	Function	Default	DMX values
17	Function	0	0–11 No Function 12–24 Fast Pan/Tilt 25–37 Normal Pan/Tilt 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 1-5 68–72 Gamma Curve 2-2 73–77 Halo OFF 78–82 Halo 750W 83–87 Halo 1000W 88–92 Halo 1200W 93–97 Halo 2000W 98–102 Halo 2500W 103–105 No Function 106–108 RAW 109–111 RGB 112–114 CMY 115–122 No Function 123–123 CTO Filt 124–124 CTO White 125–163 No Function 164–164 1000Hz 165–165 1500Hz 166–166 2400Hz 167–167 3700Hz 168–168 5600Hz 169–169 9400Hz 170–170 15100Hz 171–171 21400Hz 172–172 31000Hz 173–173 43700Hz 174–250 No Function 251–255 Default Recall
18	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
19	L EDFrequency	128	

Extended HSV

32 channels

Ch	Function	Default	DMX values
1	Reserved 1	0	
2	Reserved 2	0	
3	Reserved 3	0	
4	Reserved 4	0	
5	Reserved 5	0	
6	Reserved 6	0	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	

Extended HSV (continued)

Ch	Function	Default	DMX values
12	Reserved 12	0	
13	C TO	0	0–0 No CTO 1–46 8000K 47–92 7000K 93–111 6000K 112–138 5600K 139–185 5000K 186–221 4000K 222–254 3200K 255–255 2500K
14	Color Macro1	0	
15	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–3.88 Hz 24–43 Strobe · x2 Strb>> 4.03–6.91 Hz 44–63 Strobe · x3 Strb>> 7.06–9.94 Hz 64–83 Strobe · x4 Strb>> 10.1–13 Hz 84–103 Strobe · x5 Strb>> 13.1–16 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
16	Dimmer	0	0–254 Closed 255–255 Open
17	Dimmer Fine	0	Fine byte of Dimmer
18	H SBHue	0	
19	H SBHue Fine	0	Fine byte of H SBHue
20	H SBSaturation	0	0–254 Pure Color 255–255 White
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Tint	128	0–127 Tint <<M 128–128 Tint OFF 129–255 Tint G>>
25	Pan	128	
26	Pan Fine	0	Fine byte of Pan
27	Tilt	128	
28	Tilt Fine	0	Fine byte of Tilt
29	Zoom	0	0–254 Narrow 255–255 Wide

Extended HSV (continued)

Ch	Function	Default	DMX values
30	Function	0	0–11 No Function 12–24 Fast Pan/Tilt 25–37 Normal Pan/Tilt 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 1-5 68–72 Gamma Curve 2-2 73–77 Halo OFF 78–82 Halo 750W 83–87 Halo 1000W 88–92 Halo 1200W 93–97 Halo 2000W 98–102 Halo 2500W 103–105 No Function 106–108 RAW 109–111 RGB 112–114 CMY 115–122 No Function 123–123 CTO Filt 124–124 CTO White 125–163 No Function 164–164 1000Hz 165–165 1500Hz 166–166 2400Hz 167–167 3700Hz 168–168 5600Hz 169–169 9400Hz 170–170 15100Hz 171–171 21400Hz 172–172 31000Hz 173–173 43700Hz 174–250 No Function 251–255 Default Recall
31	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
32	L EDFrequency	128	

Extended RAW

32 channels

Ch	Function	Default	DMX values
1	Red	255	0–254 0% 255–255 100%
2	Red Fine	255	Fine byte of Red
3	Color Add RY	255	0–254 0% 255–255 100%
4	Color Add RY Fine	255	Fine byte of Color Add RY
5	Color Add GY	255	0–254 0% 255–255 100%
6	Color Add GY Fine	255	Fine byte of Color Add GY
7	Green	255	0–254 0% 255–255 100%
8	Green Fine	255	Fine byte of Green

Extended RAW (continued)

Ch	Function	Default	DMX values
9	Color Add C	255	0–254 0% 255–255 100%
10	Color Add C Fine	255	Fine byte of Color Add C
11	Blue	255	0–254 0% 255–255 100%
12	Blue Fine	255	Fine byte of Blue
13	C TO	0	0–0 No CTO 1–46 8000K 47–92 7000K 93–111 6000K 112–138 5600K 139–185 5000K 186–221 4000K 222–254 3200K 255–255 2500K
14	Color Macro1	0	
15	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–3.88 Hz 24–43 Strobe · x2 Strb>> 4.03–6.91 Hz 44–63 Strobe · x3 Strb>> 7.06–9.94 Hz 64–83 Strobe · x4 Strb>> 10.1–13 Hz 84–103 Strobe · x5 Strb>> 13.1–16 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
16	Dimmer	0	0–254 Closed 255–255 Open
17	Dimmer Fine	0	Fine byte of Dimmer
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Tint	128	0–127 Tint <<M 128–128 Tint OFF 129–255 Tint G>>
25	Pan	128	
26	Pan Fine	0	Fine byte of Pan
27	Tilt	128	
28	Tilt Fine	0	Fine byte of Tilt
29	Zoom	0	0–254 Narrow 255–255 Wide

Extended RAW (continued)

Ch	Function	Default	DMX values
30	Function	0	0–11 No Function 12–24 Fast Pan/Tilt 25–37 Normal Pan/Tilt 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 1-5 68–72 Gamma Curve 2-2 73–77 Halo OFF 78–82 Halo 750W 83–87 Halo 1000W 88–92 Halo 1200W 93–97 Halo 2000W 98–102 Halo 2500W 103–105 No Function 106–108 RAW 109–111 RGB 112–114 CMY 115–122 No Function 123–123 CTO Filt 124–124 CTO White 125–163 No Function 164–164 1000Hz 165–165 1500Hz 166–166 2400Hz 167–167 3700Hz 168–168 5600Hz 169–169 9400Hz 170–170 15100Hz 171–171 21400Hz 172–172 31000Hz 173–173 43700Hz 174–250 No Function 251–255 Default Recall
31	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
32	L EDFrequency	128	

Extended RGB

32 channels

Ch	Function	Default	DMX values
1	Reserved 1	0	
2	Reserved 2	0	
3	Reserved 3	0	
4	Reserved 4	0	
5	Reserved 5	0	
6	Reserved 6	0	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	

Extended RGB (continued)

Ch	Function	Default	DMX values
12	Reserved 12	0	
13	C TO	0	0–0 No CTO 1–46 8000K 47–92 7000K 93–111 6000K 112–138 5600K 139–185 5000K 186–221 4000K 222–254 3200K 255–255 2500K
14	Color Macro1	0	
15	Shutter / Strobe	106	0–3 Closed 4–23 Strobe · x1 Strb>> 1–3.88 Hz 24–43 Strobe · x2 Strb>> 4.03–6.91 Hz 44–63 Strobe · x3 Strb>> 7.06–9.94 Hz 64–83 Strobe · x4 Strb>> 10.1–13 Hz 84–103 Strobe · x5 Strb>> 13.1–16 Hz 104–107 Open 108–127 x1 PulseC>> 128–147 x2 PulseC>> 148–167 x3 PulseC>> 168–187 x4 PulseC>> 188–207 x5 PulseC>> 208–212 Open 213–220 Random · x1 RndStrb>> 1–5.42 Hz 221–228 Random · x2 RndStrb>> 6.05–10.5 Hz 229–235 Random · x3 RndStrb>> 11.1–14.9 Hz 236–243 Random · x4 RndStrb>> 15.5–19.9 Hz 244–251 Random · x5 RndStrb>> 20.6–25 Hz 252–255 Open
16	Dimmer	0	0–254 Closed 255–255 Open
17	Dimmer Fine	0	Fine byte of Dimmer
18	Color RGBRed	255	0–254 0% 255–255 100%
19	Color RGBGreen	255	0–254 0% 255–255 100%
20	Color RGBBlue	255	0–254 0% 255–255 100%
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Tint	128	0–127 Tint <<M 128–128 Tint OFF 129–255 Tint G>>
25	Pan	128	
26	Pan Fine	0	Fine byte of Pan
27	Tilt	128	
28	Tilt Fine	0	Fine byte of Tilt
29	Zoom	0	0–254 Narrow 255–255 Wide

Extended RGB (continued)

Ch	Function	Default	DMX values
30	Function	0	0–11 No Function 12–24 Fast Pan/Tilt 25–37 Normal Pan/Tilt 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 1-5 68–72 Gamma Curve 2-2 73–77 Halo OFF 78–82 Halo 750W 83–87 Halo 1000W 88–92 Halo 1200W 93–97 Halo 2000W 98–102 Halo 2500W 103–105 No Function 106–108 RAW 109–111 RGB 112–114 CMY 115–122 No Function 123–123 CTO Filt 124–124 CTO White 125–163 No Function 164–164 1000Hz 165–165 1500Hz 166–166 2400Hz 167–167 3700Hz 168–168 5600Hz 169–169 9400Hz 170–170 15100Hz 171–171 21400Hz 172–172 31000Hz 173–173 43700Hz 174–250 No Function 251–255 Default Recall
31	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset 77–127 Position Reset 128–255 Reset
32	L EDFrequency	128	

Fixture model: gdtf-clay-paky-k-eye-k20-hcr-103843
New original approximate HitLight K-EYE K20 HCR housing and37 optical faces sharing one retained aggregate native source authored locally fr…
Creator: HitLight