Leding

Vortex 19M



Manufacturer	**Leding**
Type	**Moving head**
DMX modes	**6**
DMX footprint	**25, 27, 31, 32, 37, 101 channels**
Beam angle	**3.5-38°**
Pan range	**540°**
Tilt range	**220°**
Heads / cells	**21**
Size (W × H × D)	**321 × 268 × 321 mm**
GDTF fixture type	**EA0F06FE-A167-1006-8D7E-1F…**

Controls

Zoom · Extra LED colours · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset

DMX modes

SPP	25 ch
HSIC	27 ch
CMY	31 ch
TOUR	32 ch
TR16	37 ch
PIXEL	101 ch

SPP

25 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Tilt	128	
3	Position MSpeed	0	
4	Red	255	
5	Green	255	
6	Blue	255	
7	Color Add GY	255	
8	Dimmer	0	0–254 closed 255–255 open
9	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random
10	Zoom	128	0–127 narrow 128–254 normal 255–255 wide
11	Red	255	
12	Green	255	
13	Blue	255	

SPP (continued)

Ch	Function	Default	DMX values
14	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
15	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
16	E FFECTMACRORATE	0	
17	Dimmer	0	0–254 closed 255–255 open
18	Red	255	
19	Green	255	

SPP (continued)

Ch	Function	Default	DMX values
20	Blue	255	
21	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
22	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
23	E FFECTMACRORATE	0	
24	Dimmer	0	0–254 closed 255–255 open

SPP (continued)

Ch	Function	Default	DMX values
25	Fixture Global Reset	0	0–10 No Function 11–20 P/T Black On 21–30 P/T Black Off 31–40 Pan Invert 41–50 Tilt Invert 51–60 P/T Invert Off 61–70 Live 71–80 Studio 81–90 Power 91–100 DIM 0 101–110 DIM 4 111–120 Linear 121–130 Square Law 131–140 Inv Square Law 141–150 S-Curve 151–160 1200Hz 161–170 2400Hz 171–180 4000Hz 181–190 6000Hz 191–200 25000Hz 201–210 ALL Reset 211–220 XY Reset 221–230 Zoom Reset 231–255 Reserved

HSIC

27 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Dimmer	0	0–254 closed 255–255 open
7	H SBHue	47	
8	H SBHue Fine	47	Fine byte of H SBHue
9	H SBSaturation	112	
10	C CT	0	0–9 NO FUNCTION 10–24 1800K (wheel slot 1) 25–39 2200K (wheel slot 2) 40–54 2700K (wheel slot 3) 55–69 3000K (wheel slot 4) 70–84 3200K (wheel slot 5) 85–99 4000K (wheel slot 6) 100–114 4500K (wheel slot 7) 115–129 5000K (wheel slot 8) 130–144 5600K (wheel slot 9) 145–159 6000K (wheel slot 10) 160–174 6500K (wheel slot 11) 175–189 7000K (wheel slot 12) 190–204 8000K (wheel slot 13) 205–255 10000K (wheel slot 14)

HSIC (continued)

Ch	Function	Default	DMX values
11	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random
12	Zoom	128	0–127 narrow 128–254 normal 255–255 wide
13	Red	255	
14	Green	255	
15	Blue	255	
16	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)

HSIC (continued)

Ch	Function	Default	DMX values
17	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
18	E FFECTMACRORATE	0	
19	Dimmer	0	0–254 closed 255–255 open
20	Red	255	
21	Green	255	
22	Blue	255	

HSIC (continued)

Ch	Function	Default	DMX values
23	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
24	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
25	E FFECTMACRORATE	0	
26	Dimmer	0	0–254 closed 255–255 open

HSIC (continued)

Ch	Function	Default	DMX values
27	Fixture Global Reset	0	0–10 No Function 11–20 P/T Black On 21–30 P/T Black Off 31–40 Pan Invert 41–50 Tilt Invert 51–60 P/T Invert Off 61–70 Live 71–80 Studio 81–90 Power 91–100 DIM 0 101–110 DIM 4 111–120 Linear 121–130 Square Law 131–140 Inv Square Law 141–150 S-Curve 151–160 1200Hz 161–170 2400Hz 171–180 4000Hz 181–190 6000Hz 191–200 25000Hz 201–210 ALL Reset 211–220 XY Reset 221–230 Zoom Reset 231–255 Reserved

CMY

31 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Red	0	
7	Green	0	
8	Blue	0	
9	Dimmer	0	0–254 closed 255–255 open
10	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random

CMY (continued)

Ch	Function	Default	DMX values
11	C OLORMIXER	0	0–15 No Function 16–20 R40 (wheel slot 2) 21–25 L24 (wheel slot 3) 26–40 L164 (wheel slot 4) 41–45 L08 (wheel slot 7) 46–55 L25 (wheel slot 8) 56–60 L237 (wheel slot 10) 61–65 R321 (wheel slot 11) 66–75 L652 (wheel slot 12) 76–80 L765 (wheel slot 14) 81–105 L513 (wheel slot 15) 106–115 L90 (wheel slot 20) 116–135 R92 (wheel slot 22) 136–140 L728 (wheel slot 26) 141–145 L117 (wheel slot 27) 146–155 L354 (wheel slot 28) 156–160 L501 (wheel slot 30) 161–180 L174 (wheel slot 31) 181–195 L142 (wheel slot 35) 196–200 L794 (wheel slot 38) 201–215 L328 (wheel slot 39) 216–220 L127 (wheel slot 42) 221–235 L192 (wheel slot 43) 236–240 L157 (wheel slot 46) 241–255 R332 (wheel slot 47)
12	S TATICPIXEL	0	
13	C TC	0	0–9 No Function 10–24 1800K (wheel slot 1) 25–39 2200K (wheel slot 2) 40–54 2700K (wheel slot 3) 55–69 3000K (wheel slot 4) 70–84 3200K (wheel slot 5) 85–99 4000K (wheel slot 6) 100–114 4500K (wheel slot 7) 115–129 5000 (wheel slot 8) 130–144 5600K (wheel slot 9) 145–159 6000K (wheel slot 10) 160–174 6500K (wheel slot 11) 175–189 7000K (wheel slot 12) 190–204 8000K (wheel slot 13) 205–255 10000K (wheel slot 14)
14	E FFECTMACROS	0	
15	E FFECTMACRORATE	0	
16	Zoom	128	0–127 narrow 128–254 normal 255–255 wide
17	Red	255	
18	Green	255	
19	Blue	255	

CMY (continued)

Ch	Function	Default	DMX values
20	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
21	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
22	E FFECTMACRORATE	0	
23	Dimmer	0	0–254 closed 255–255 open
24	Red	255	
25	Green	255	

CMY (continued)

Ch	Function	Default	DMX values
26	Blue	255	
27	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
28	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
29	E FFECTMACRORATE	0	
30	Dimmer	0	0–254 closed 255–255 open

CMY (continued)

Ch	Function	Default	DMX values
31	Fixture Global Reset	0	0–10 No Function 11–20 P/T Black On 21–30 P/T Black Off 31–40 Pan Invert 41–50 Tilt Invert 51–60 P/T Invert Off 61–70 Live 71–80 Studio 81–90 Power 91–100 DIM 0 101–110 DIM 4 111–120 Linear 121–130 Square Law 131–140 Inv Square Law 141–150 S-Curve 151–160 1200Hz 161–170 2400Hz 171–180 4000Hz 181–190 6000Hz 191–200 25000Hz 201–210 ALL Reset 211–220 XY Reset 221–230 Zoom Reset 231–255 Reserved

TOUR

32 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	128	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Position MSpeed	0	
6	Red	255	
7	Green	255	
8	Blue	255	
9	Color Add GY	255	
10	Dimmer	0	0–254 closed 255–255 open
11	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random

TOUR (continued)

Ch	Function	Default	DMX values
12	C OLORMIXER	0	0–15 No Function 16–20 R40 (wheel slot 2) 21–25 L24 (wheel slot 3) 26–40 L164 (wheel slot 4) 41–45 L08 (wheel slot 7) 46–55 L25 (wheel slot 8) 56–60 L237 (wheel slot 10) 61–65 R321 (wheel slot 11) 66–75 L652 (wheel slot 12) 76–80 L765 (wheel slot 14) 81–105 L513 (wheel slot 15) 106–115 L90 (wheel slot 20) 116–135 R92 (wheel slot 22) 136–140 L728 (wheel slot 26) 141–145 L117 (wheel slot 27) 146–155 L354 (wheel slot 28) 156–160 L501 (wheel slot 30) 161–180 L174 (wheel slot 31) 181–195 L142 (wheel slot 35) 196–200 L794 (wheel slot 38) 201–215 L328 (wheel slot 39) 216–220 L127 (wheel slot 42) 221–235 L192 (wheel slot 43) 236–240 L157 (wheel slot 46) 241–255 R332 (wheel slot 47)
13	C TC	0	0–9 No Function 10–24 1800K (wheel slot 1) 25–39 2200K (wheel slot 2) 40–54 2700K (wheel slot 3) 55–69 3000K (wheel slot 4) 70–84 3200K (wheel slot 5) 85–99 4000K (wheel slot 6) 100–114 4500K (wheel slot 7) 115–129 5000 (wheel slot 8) 130–144 5600K (wheel slot 9) 145–159 6000K (wheel slot 10) 160–174 6500K (wheel slot 11) 175–189 7000K (wheel slot 12) 190–204 8000K (wheel slot 13) 205–255 10000K (wheel slot 14)
14	S TATICPIXEL	0	
15	E FFECTMACROS	0	
16	E FFECTMACRORATE	0	
17	Zoom	128	0–127 narrow 128–254 normal 255–255 wide
18	Red	255	
19	Green	255	
20	Blue	255	

TOUR (continued)

Ch	Function	Default	DMX values
21	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
22	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
23	E FFECTMACRORATE	0	
24	Dimmer	0	0–254 closed 255–255 open
25	Red	255	
26	Green	255	

TOUR (continued)

Ch	Function	Default	DMX values
27	Blue	255	
28	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
29	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
30	E FFECTMACRORATE	0	
31	Dimmer	0	0–254 closed 255–255 open

TOUR (continued)

Ch	Function	Default	DMX values
32	Fixture Global Reset	0	0–10 No Function 11–20 P/T Black On 21–30 P/T Black Off 31–40 Pan Invert 41–50 Tilt Invert 51–60 P/T Invert Off 61–70 Live 71–80 Studio 81–90 Power 91–100 DIM 0 101–110 DIM 4 111–120 Linear 121–130 Square Law 131–140 Inv Square Law 141–150 S-Curve 151–160 1200Hz 161–170 2400Hz 171–180 4000Hz 181–190 6000Hz 191–200 25000Hz 201–210 ALL Reset 211–220 XY Reset 221–230 Zoom Reset 231–255 Reserved

TR16

37 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Red	255	
7	Red Fine	255	Fine byte of Red
8	Green	255	
9	Green Fine	255	Fine byte of Green
10	Blue	255	
11	Blue Fine	255	Fine byte of Blue
12	Color Add GY	255	
13	Color Add GY Fine	255	Fine byte of Color Add GY
14	Dimmer	0	0–254 closed 255–255 open
15	Dimmer Fine	0	Fine byte of Dimmer
16	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random

TR16 (continued)

Ch	Function	Default	DMX values
17	C OLORMIXER	0	0–15 No Function 16–20 R40 (wheel slot 2) 21–25 L24 (wheel slot 3) 26–40 L164 (wheel slot 4) 41–45 L08 (wheel slot 7) 46–55 L25 (wheel slot 8) 56–60 L237 (wheel slot 10) 61–65 R321 (wheel slot 11) 66–75 L652 (wheel slot 12) 76–80 L765 (wheel slot 14) 81–105 L513 (wheel slot 15) 106–115 L90 (wheel slot 20) 116–135 R92 (wheel slot 22) 136–140 L728 (wheel slot 26) 141–145 L117 (wheel slot 27) 146–155 L354 (wheel slot 28) 156–160 L501 (wheel slot 30) 161–180 L174 (wheel slot 31) 181–195 L142 (wheel slot 35) 196–200 L794 (wheel slot 38) 201–215 L328 (wheel slot 39) 216–220 L127 (wheel slot 42) 221–235 L192 (wheel slot 43) 236–240 L157 (wheel slot 46) 241–255 R332 (wheel slot 47)
18	C TC	0	0–9 No Function 10–24 1800K (wheel slot 1) 25–39 2200K (wheel slot 2) 40–54 2700K (wheel slot 3) 55–69 3000K (wheel slot 4) 70–84 3200K (wheel slot 5) 85–99 4000K (wheel slot 6) 100–114 4500K (wheel slot 7) 115–129 5000 (wheel slot 8) 130–144 5600K (wheel slot 9) 145–159 6000K (wheel slot 10) 160–174 6500K (wheel slot 11) 175–189 7000K (wheel slot 12) 190–204 8000K (wheel slot 13) 205–255 10000K (wheel slot 14)
19	S TATICPIXEL	0	
20	E FFECTMACROS	0	
21	E FFECTMACRORATE	0	
22	Zoom	128	0–127 narrow 128–254 normal 255–255 wide
23	Red	255	
24	Green	255	
25	Blue	255	

TR16 (continued)

Ch	Function	Default	DMX values
26	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
27	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
28	E FFECTMACRORATE	0	
29	Dimmer	0	0–254 closed 255–255 open
30	Red	255	
31	Green	255	

TR16 (continued)

Ch	Function	Default	DMX values
32	Blue	255	
33	C OLORMIXER	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Green (wheel slot 3) 20–24 Blue (wheel slot 4) 25–29 Yellow (wheel slot 5) 30–34 Magenta (wheel slot 6) 35–39 Cyan (wheel slot 7) 40–44 White (wheel slot 8) 45–49 Violet Blue (wheel slot 9) 50–54 Light BLue (wheel slot 10) 55–59 Wine Red (wheel slot 11) 60–64 May Green (wheel slot 12) 65–69 Reseda Green (wheel slot 13) 70–74 Blue Lilac (wheel slot 14) 75–79 Moss Green (wheel slot 15) 80–84 Signal Violet (wheel slot 16) 85–89 Red Lilac (wheel slot 17) 90–94 Purple Red (wheel slot 18) 95–99 Green Brown (wheel slot 19) 100–104 Pale Green (wheel slot 20) 105–109 Ruby Red (wheel slot 21) 110–114 Flame Red (wheel slot 22) 115–119 Red Orange (wheel slot 23) 120–124 Rose (wheel slot 24) 125–129 Honey Yellow (wheel slot 25) 130–134 Light Pink (wheel slot 26) 135–139 Deep Orange (wheel slot 27) 140–144 Lemmon (wheel slot 28) 145–149 Golden Yellow (wheel slot 29) 150–154 Pastel Orange (wheel slot 30) 155–159 Cream (wheel slot 31) 160–164 Melon Yellow (wheel slot 32) 165–169 Luminous Orange (wheel slot 33) 170–174 Luminous Yellow (wheel slot 34) 175–179 Open (wheel slot 35) 180–248 Stop Color FX (wheel slot 36) 249–255 Open (wheel slot 37)
34	E FFECTMACROS	0	0–9 Open 10–23 FX 1 24–37 FX 2 38–51 FX 3 52–65 FX 4 66–79 FX 5 80–93 FX 6 94–107 FX 7 108–121 FX 8 122–135 FX 9 136–149 FX 10 150–163 FX 11 164–177 FX 12 178–191 FX 13 192–205 FX 14 206–219 FX 15 220–233 FX 16 234–247 FX 17 248–255 Open
35	E FFECTMACRORATE	0	
36	Dimmer	0	0–254 closed 255–255 open

TR16 (continued)

Ch	Function	Default	DMX values
37	Fixture Global Reset	0	0–10 No Function 11–20 P/T Black On 21–30 P/T Black Off 31–40 Pan Invert 41–50 Tilt Invert 51–60 P/T Invert Off 61–70 Live 71–80 Studio 81–90 Power 91–100 DIM 0 101–110 DIM 4 111–120 Linear 121–130 Square Law 131–140 Inv Square Law 141–150 S-Curve 151–160 1200Hz 161–170 2400Hz 171–180 4000Hz 181–190 6000Hz 191–200 25000Hz 201–210 ALL Reset 211–220 XY Reset 221–230 Zoom Reset 231–255 Reserved

PIXEL

101 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Zoom	128	
7	Red	255	
8	Green	255	
9	Blue	255	
10	C OLORMIXER	0	
11	E FFECTMACROS	0	
12	E FFECTMACRORATE	0	
13	Dimmer	0	
14	Red	255	
15	Green	255	
16	Blue	255	
17	C OLORMIXER	0	
18	E FFECTMACROS	0	
19	E FFECTMACRORATE	0	
20	Dimmer	0	
21	Fixture Global Reset	0	
22	Dimmer	0	

PIXEL (continued)

Ch	Function	Default	DMX values
23	Shutter / Strobe	0	0–9 open 10–98 min Strobe 99–99 max Strobe 100–109 open 110–178 min Thunder 179–179 max Thunder 180–189 open 190–254 min Random 255–255 max Random
24	C OLORMIXER	0	
25	C TC	0	
26	Red	255	
27	Green	255	
28	Blue	255	
29	Color Add GY	255	
30	Red	255	
31	Green	255	
32	Blue	255	
33	Color Add GY	255	
34	Red	255	
35	Green	255	
36	Blue	255	
37	Color Add GY	255	
38	Red	255	
39	Green	255	
40	Blue	255	
41	Color Add GY	255	
42	Red	255	
43	Green	255	
44	Blue	255	
45	Color Add GY	255	
46	Red	255	
47	Green	255	
48	Blue	255	
49	Color Add GY	255	
50	Red	255	
51	Green	255	
52	Blue	255	
53	Color Add GY	255	
54	Red	255	
55	Green	255	
56	Blue	255	
57	Color Add GY	255	
58	Red	255	
59	Green	255	
60	Blue	255	
61	Color Add GY	255	

PIXEL (continued)

Ch	Function	Default	DMX values
62	Red	255	
63	Green	255	
64	Blue	255	
65	Color Add GY	255	
66	Red	255	
67	Green	255	
68	Blue	255	
69	Color Add GY	255	
70	Red	255	
71	Green	255	
72	Blue	255	
73	Color Add GY	255	
74	Red	255	
75	Green	255	
76	Blue	255	
77	Color Add GY	255	
78	Red	255	
79	Green	255	
80	Blue	255	
81	Color Add GY	255	
82	Red	255	
83	Green	255	
84	Blue	255	
85	Color Add GY	255	
86	Red	255	
87	Green	255	
88	Blue	255	
89	Color Add GY	255	
90	Red	255	
91	Green	255	
92	Blue	255	
93	Color Add GY	255	
94	Red	255	
95	Green	255	
96	Blue	255	
97	Color Add GY	255	
98	Red	255	
99	Green	255	
100	Blue	255	
101	Color Add GY	255	