JB-Lighting

P12 Wash MA HP



Manufacturer	**JB-Lighting**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**36, 54 channels**
Beam angle	**11-66°**
Pan range	**546.74°**
Tilt range	**281.16°**
Size (W × H × D)	**260 × 479 × 260 mm**
GDTF fixture type	**C4A6AF72-73BE-4B19-A29D-CB…**

Controls

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

DMX modes

Mode 1 (36 ch)	36 ch
Mode 2 (54 ch)	54 ch

Mode 1 (36 ch)

36 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	Control1	157	
6	Shutter / Strobe	16	0–15 closed 16–95 open 96–97 StrobePulseOpen · 20Hz 20–18.6 Hz 98–99 StrobePulseOpen · 15Hz 17.2–15.7 Hz 100–101 StrobePulseOpen · 10Hz 14.3–12.9 Hz 102–104 StrobePulseOpen · 5Hz 11.5–8.63 Hz 105–109 StrobePulseOpen · 1Hz 7.21–1.52 Hz 110–110 StrobePulseOpen · 1/10Hz 0.1 Hz 111–111 open (2) 112–124 Shutter Fade Effect strobe · fade effect slow 1–18.5… 125–125 Shutter Fade Effect strobe · fade effect fast 20 Hz 126–126 open (3) 127–127 closed (2) 128–141 pulse open fast 142–142 pulse open slow 143–143 open (4) 144–157 pulse close fast 158–158 pulse close slow 159–159 closed (3) 160–173 Shutter Fade close strobe · fade close fast 20–1.52 … 174–174 Shutter Fade close strobe · fade close slow 0.1 Hz 175–175 open (5) 176–189 fade open fast 190–190 fade open slow 191–191 closed (4) 192–205 rnd open fast 206–206 rnd open slow 207–207 open (6) 208–221 Shutter Rnd Close strobe · rnd close fast 20–1.52 Hz 222–222 Shutter Rnd Close strobe · rnd close slow 0.1 Hz 223–223 closed (5) 224–238 rnd pulse close fast 239–239 open (7) 240–254 rnd pulse open fast 255–255 open (8)
7	Dimmer	0	0–24 closed 25–50 10% 51–63 20% 64–75 25% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–190 70% 191–203 75% 204–229 80% 230–254 90% 255–255 open
8	Focus	128	
9	Zoom	128	0–127 narrow 128–254 medium 255–255 wide

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
10	Focus1Distance	0	0–9 off 10–19 1m 20–29 2m 30–39 3m 40–49 4m 50–59 5m 60–69 6m 70–79 7m 80–89 8m 90–99 9m 100–109 10m 110–119 11m 120–129 12m 130–139 13m 140–149 14m 150–159 15m 160–169 16m 170–179 17m 180–189 18m 190–199 19m 200–209 20m 210–219 21m 220–229 22m 230–239 23m 240–249 24m 250–254 25m 255–255 far
11	Focus1Adjust	128	
12	Iris	0	0–254 open 255–255 closed
13	Gobo	0	0–7 open (wheel slot 1) 8–15 gobo 0_1 (wheel slot 2) 16–23 gobo 0_2 (wheel slot 3) 24–31 gobo 0_3 (wheel slot 4) 32–39 gobo 0_4 (wheel slot 5) 40–47 gobo 0_5 (wheel slot 6) 48–127 gobo 0_6 (wheel slot 7) 128–134 open (2) fast (wheel slot 1) 135–135 open (2) slow (wheel slot 1) 136–142 gobo 0_1 fast (wheel slot 2) 143–143 gobo 0_1 slow (wheel slot 2) 144–150 gobo 0_2 fast (wheel slot 3) 151–151 gobo 0_2 slow (wheel slot 3) 152–158 gobo 0_3 fast (wheel slot 4) 159–159 gobo 0_3 slow (wheel slot 4) 160–166 gobo 0_4 fast (wheel slot 5) 167–167 gobo 0_4 slow (wheel slot 5) 168–174 gobo 0_5 fast (wheel slot 6) 175–175 gobo 0_5 slow (wheel slot 6) 176–190 gobo 0_6 fast (wheel slot 7) 191–191 gobo 0_6 slow (wheel slot 7) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
14	Gobo Rotation	0	0–31 0 32–63 90 64–95 180 96–127 270 128–159 360 160–190 450 191–191 540 192–192 >>> 193–222 rotate 100__1% 223–224 Stop 225–254 rotate -1__-100% 255–255 <<<
15	Blade1A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
16	Blade1Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
17	Blade3A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
18	Blade3Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
19	Blade2A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
20	Blade2Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
21	Blade4A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
22	Blade4Rot	128	0–42 max ccw 43–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
23	Shaper Rot	128	0–10 -55 11–22 -50 23–33 -45 34–45 -40 46–57 -35 58–68 -30 69–80 -25 81–92 -20 93–103 -15 104–115 -10 116–127 -5 128–138 0 139–150 5 151–161 10 162–173 15 174–185 20 186–196 25 197–208 30 209–220 35 221–231 40 232–243 45 244–254 50 255–255 55

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
24	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / pink (wheel slot 7) 28–29 pink (wheel slot 8) 30–31 pink / cri (wheel slot 8) 32–33 cri (wheel slot 9) 34–63 cri / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 pink (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
25	Color Wheel 2	0	0–1 open (wheel slot 1) 2–3 white / cto1 (wheel slot 1) 4–5 cto1 (wheel slot 2) 6–7 cto1 / cto2 (wheel slot 2) 8–9 cto2 (wheel slot 3) 10–11 cto2 / cto3 (wheel slot 3) 12–13 cto3 (wheel slot 4) 14–15 cto3 / ctb1 (wheel slot 4) 16–17 ctb1 (wheel slot 5) 18–19 ctb1 / ctb2 (wheel slot 5) 20–21 ctb2 (wheel slot 6) 22–23 ctb2 / ctb3 (wheel slot 6) 24–25 ctb3 (wheel slot 7) 26–27 ctb3 / dark blue (wheel slot 7) 28–29 dark blue (wheel slot 8) 30–31 dark blue / dark red (wheel slot 8) 32–33 dark red (wheel slot 9) 34–63 dark red / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 cto1 (wheel slot 2) 90–101 cto2 (wheel slot 3) 102–114 cto3 (wheel slot 4) 115–127 ctb1 (wheel slot 5) 128–140 ctb2 (wheel slot 6) 141–153 ctb3 (wheel slot 7) 154–165 dark blue (wheel slot 8) 166–178 dark red (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
26	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
27	Magenta	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
28	Yellow	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
29	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
30	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle

Mode 1 (36 ch) (continued)

Ch	Function	Default	DMX values
31	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
32	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
33	Frost2	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
34	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
35	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
36	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast

Mode 2 (54 ch)

54 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	157	
6	Shutter / Strobe	16	0–15 closed 16–95 open 96–97 StrobePulseOpen · 20Hz 20–18.6 Hz 98–99 StrobePulseOpen · 15Hz 17.2–15.7 Hz 100–101 StrobePulseOpen · 10Hz 14.3–12.9 Hz 102–104 StrobePulseOpen · 5Hz 11.5–8.63 Hz 105–109 StrobePulseOpen · 1Hz 7.21–1.52 Hz 110–110 StrobePulseOpen · 1/10Hz 0.1 Hz 111–111 open (2) 112–124 Shutter Fade Effect strobe · fade effect slow 1–18.5… 125–125 Shutter Fade Effect strobe · fade effect fast 20 Hz 126–126 open (3) 127–127 closed (2) 128–141 pulse open fast 142–142 pulse open slow 143–143 open (4) 144–157 pulse close fast 158–158 pulse close slow 159–159 closed (3) 160–173 Shutter Fade close strobe · fade close fast 20–1.52 … 174–174 Shutter Fade close strobe · fade close slow 0.1 Hz 175–175 open (5) 176–189 fade open fast 190–190 fade open slow 191–191 closed (4) 192–205 rnd open fast 206–206 rnd open slow 207–207 open (6) 208–221 Shutter Rnd Close strobe · rnd close fast 20–1.52 Hz 222–222 Shutter Rnd Close strobe · rnd close slow 0.1 Hz 223–223 closed (5) 224–238 rnd pulse close fast 239–239 open (7) 240–254 rnd pulse open fast 255–255 open (8)
7	Dimmer	0	0–24 closed 25–50 10% 51–63 20% 64–75 25% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–190 70% 191–203 75% 204–229 80% 230–254 90% 255–255 open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Focus	128	
10	Focus Fine	0	Fine byte of Focus
11	Zoom	128	0–127 narrow 128–254 medium 255–255 wide
12	Zoom Fine	0	Fine byte of Zoom

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
13	Focus1Distance	0	0–9 off 10–19 1m 20–29 2m 30–39 3m 40–49 4m 50–59 5m 60–69 6m 70–79 7m 80–89 8m 90–99 9m 100–109 10m 110–119 11m 120–129 12m 130–139 13m 140–149 14m 150–159 15m 160–169 16m 170–179 17m 180–189 18m 190–199 19m 200–209 20m 210–219 21m 220–229 22m 230–239 23m 240–249 24m 250–254 25m 255–255 far
14	Focus1Adjust	128	
15	Iris	0	0–254 open 255–255 closed
16	Iris Fine	0	Fine byte of Iris
17	Gobo	0	0–7 open (wheel slot 1) 8–15 gobo 0_1 (wheel slot 2) 16–23 gobo 0_2 (wheel slot 3) 24–31 gobo 0_3 (wheel slot 4) 32–39 gobo 0_4 (wheel slot 5) 40–47 gobo 0_5 (wheel slot 6) 48–127 gobo 0_6 (wheel slot 7) 128–134 open (2) fast (wheel slot 1) 135–135 open (2) slow (wheel slot 1) 136–142 gobo 0_1 fast (wheel slot 2) 143–143 gobo 0_1 slow (wheel slot 2) 144–150 gobo 0_2 fast (wheel slot 3) 151–151 gobo 0_2 slow (wheel slot 3) 152–158 gobo 0_3 fast (wheel slot 4) 159–159 gobo 0_3 slow (wheel slot 4) 160–166 gobo 0_4 fast (wheel slot 5) 167–167 gobo 0_4 slow (wheel slot 5) 168–174 gobo 0_5 fast (wheel slot 6) 175–175 gobo 0_5 slow (wheel slot 6) 176–190 gobo 0_6 fast (wheel slot 7) 191–191 gobo 0_6 slow (wheel slot 7) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
18	Gobo Rotation	0	0–31 0 32–63 90 64–95 180 96–127 270 128–159 360 160–190 450 191–191 540 192–222 << 223–224 Stop 225–254 rotate 1__100% 255–255 >>>
19	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
20	Blade1A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
21	Blade1A Fine	0	Fine byte of Blade1A
22	Blade1Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
23	Blade1Rot Fine	0	Fine byte of Blade1Rot
24	Blade3A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
25	Blade3A Fine	0	Fine byte of Blade3A
26	Blade3Rot	128	0–41 max cw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
27	Blade3Rot Fine	0	Fine byte of Blade3Rot

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
28	Blade2A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
29	Blade2A Fine	0	Fine byte of Blade2A
30	Blade2Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
31	Blade2Rot Fine	0	Fine byte of Blade2Rot
32	Blade4A	0	0–24 min 25–50 10% 51–75 20% 76–101 30% 102–127 40% 128–152 50% 153–178 60% 179–203 70% 204–229 80% 230–254 90% 255–255 max
33	Blade4A Fine	0	Fine byte of Blade4A
34	Blade4Rot	128	0–41 max ccw 42–84 -20 85–127 -10 128–169 zero 170–212 10 213–254 20 255–255 max cw
35	Blade4Rot Fine	0	Fine byte of Blade4Rot

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
36	Shaper Rot	128	0–10 -55 11–22 -50 23–33 -45 34–45 -40 46–57 -35 58–68 -30 69–80 -25 81–92 -20 93–103 -15 104–115 -10 116–127 -5 128–138 0 139–150 5 151–161 10 162–173 15 174–185 20 186–196 25 197–208 30 209–220 35 221–231 40 232–243 45 244–254 50 255–255 55
37	Shaper Rot Fine	0	Fine byte of Shaper Rot
38	Color Wheel	0	0–1 open (wheel slot 1) 2–3 white / red (wheel slot 1) 4–5 red (wheel slot 2) 6–7 red / yellow (wheel slot 2) 8–9 yellow (wheel slot 3) 10–11 yellow / magenta (wheel slot 3) 12–13 magenta (wheel slot 4) 14–15 magenta / green (wheel slot 4) 16–17 green (wheel slot 5) 18–19 green / orange (wheel slot 5) 20–21 orange (wheel slot 6) 22–23 orange / blue (wheel slot 6) 24–25 blue (wheel slot 7) 26–27 blue / pink (wheel slot 7) 28–29 pink (wheel slot 8) 30–31 pink / cri (wheel slot 8) 32–33 cri (wheel slot 9) 34–63 cri / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 red (wheel slot 2) 90–101 yellow (wheel slot 3) 102–114 magenta (wheel slot 4) 115–127 green (wheel slot 5) 128–140 orange (wheel slot 6) 141–153 blue (wheel slot 7) 154–165 pink (wheel slot 8) 166–178 ctb (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
39	Color Wheel 2	0	0–1 open (wheel slot 1) 2–3 white / cto1 (wheel slot 1) 4–5 cto1 (wheel slot 2) 6–7 cto1 / cto2 (wheel slot 2) 8–9 cto2 (wheel slot 3) 10–11 cto2 / cto3 (wheel slot 3) 12–13 cto3 (wheel slot 4) 14–15 cto3 / ctb1 (wheel slot 4) 16–17 ctb1 (wheel slot 5) 18–19 ctb1 / ctb2 (wheel slot 5) 20–21 ctb2 (wheel slot 6) 22–23 ctb2 / ctb3 (wheel slot 6) 24–25 ctb3 (wheel slot 7) 26–27 ctb3 / dark blue (wheel slot 7) 28–29 dark blue (wheel slot 8) 30–31 dark blue / dark red (wheel slot 8) 32–33 dark red (wheel slot 9) 34–63 dark red / white (wheel slot 9) 64–76 open (2) (wheel slot 1) 77–89 cto1 (wheel slot 2) 90–101 cto2 (wheel slot 3) 102–114 cto3 (wheel slot 4) 115–127 ctb1 (wheel slot 5) 128–140 ctb2 (wheel slot 6) 141–153 ctb3 (wheel slot 7) 154–165 dark blue (wheel slot 8) 166–178 dark red (wheel slot 9) 179–191 open (3) (wheel slot 1) 192–222 spin >>> fast 223–223 spin >>> slow 224–254 spin <<< slow 255–255 spin <<< fast
40	Cyan	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
41	Cyan Fine	0	Fine byte of Cyan
42	Magenta	0	0–63 min 64–127 75% 128–190 50% 191–254 25% 255–255 max
43	Magenta Fine	0	Fine byte of Magenta
44	Yellow	0	0–63 min 64–127 75% 128–190 50% 191–254 25% 255–255 max
45	Yellow Fine	0	Fine byte of Yellow
46	C TO	0	0–63 min 64–127 25% 128–190 50% 191–254 75% 255–255 max
47	C TO Fine	0	Fine byte of C TO

Mode 2 (54 ch) (continued)

Ch	Function	Default	DMX values
48	Sparkle	0	0–63 0% sparkle 64–127 25% sparkle 128–190 50% sparkle 191–254 75% sparkle 255–255 100% sparkle
49	Sparkle Speed	0	0–0 sparkle faded slow 1–30 sparkle faded 1__99% 31–31 sparkle faded fast 32–32 sparkle switched slow 33–62 sparkle switched 1__99% 63–63 sparkle switched fast 64–64 sparkle faded slow 65–94 sparkle faded 1__99% 95–95 sparkle faded fast 96–96 sparkle switched slow 97–126 sparkle switched 1__99% 127–127 sparkle switched fast 128–128 sparkle faded slow 129–158 sparkle faded 1__99% 159–159 sparkle faded fast 160–160 sparkle switched slow 161–190 sparkle switched 1__99% 191–191 sparkle switched fast 192–192 sparkle faded slow 193–222 sparkle faded 1__99% 223–223 sparkle faded fast 224–224 sparkle switched slow 225–254 sparkle switched 1__99% 255–255 sparkle switched fast
50	Frost1	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
51	Frost2	0	0–63 0% frost 64–127 25% frost 128–190 50% frost 191–254 75% frost 255–255 100% frost
52	Position MSpeed	0	0–3 real time movement 4–254 movement fast 255–255 movement slow
53	Global MSpeed	0	0–3 realtime effects 4–254 effects fast 255–255 effects slow
54	Blackout Mode	0	0–95 no bo 96–126 bo at p/t slow 127–127 bo at p/t fast 128–158 bo at go co pr cmy ir fr slow 159–159 bo at go co pr cmy ir fr fast 160–190 bo at go co pr cmy ir fr fo zo slow 191–191 bo at go co pr cmy ir fr fo zo fast 192–222 bo at go co pr cmy ir fr p/t slow 223–223 bo at go co pr cmy ir fr p/t fast 224–254 bo at go co pr cmy ir fr fo zo p/t slow 255–255 bo at go co pr cmy ir fr fo zo p/t fast