

MAC 700 Wash DMX protocol

16-bit Basic Mode	16-bit Extended Mode	DMX Value	Percent	Function
1	1	0 - 19	0 - 7	Shutter, strobe, reset, lamp on/off Shutter closed (lamp switches to 400 W mode after 10 seconds while shutter is closed)
		20 - 49	8 - 19	Shutter open
		50 - 72	20 - 28	Strobe, fast → slow
		73 - 79	29 - 30	Shutter open
		80 - 99	31 - 39	Opening pulse, fast → slow
		100 - 119	40 - 47	Closing pulse, fast → slow
		120 - 127	48 - 50	Shutter open
		128 - 147	51 - 57	Random strobe, fast
		148 - 167	58 - 65	Random strobe, medium
		168 - 187	66 - 73	Random strobe, slow
		188 - 190	74	Shutter open
		191 - 193	75	Random opening pulse, fast
		194 - 196	76	Random opening pulse, slow
		197 - 199	77	Random closing pulse, fast
		200 - 202	78 - 79	Random closing pulse, slow
		203 - 207	80 - 81	Shutter open
		208 - 217	82 - 85	Reset fixture* **
		218 - 227	86 - 89	Shutter open
		228 - 237	90 - 93	Lamp on
		238 - 242	94 - 95	400 W mode (active until 700 W value is selected)
243 - 247	96 - 97	700 W mode		
248 - 255	98 - 100	Lamp off*		
2	2	0 - 255	0 - 100	Dimmer (MSB) Closed → open
-	3	0 - 255	0 - 100	Dimmer, fine (LSB)
3	4	0 - 255	0 - 100	Cyan (MSB) White → full cyan
		0	0	Cyan range in random CMY color when set on channel 9 (basic) or 15 (extended) Normal (full range)
		1 - 127	1 - 50	Minimum cyan setting (127 = full cyan)
		128 - 254	51 - 99	Maximum cyan setting (128 = no cyan)
		255	100	Normal (full range)
-	5	0 - 255	0 - 100	Cyan, fine (LSB)
4	6	0 - 255	0 - 100	Magenta (MSB) White → full magenta
		0	0	Magenta range in random CMY color when set on channel 9 (basic) or 15 (extended) Normal (full range)
		1 - 127	1 - 50	Minimum magenta setting (127 = full magenta)
		128 - 254	51 - 99	Maximum magenta setting (128 = no magenta)
		255	100	Normal (full range)
-	7	0 - 255	0 - 100	Magenta, fine (LSB)
5	8	0 - 255	0 - 100	Yellow (MSB) White → full yellow
		0	0	Yellow range in random CMY color when set on channel 9 (basic) or 15 (extended) Normal (full range)
		1 - 127	1 - 50	Minimum yellow setting (127 = full yellow)
		128 - 254	51 - 99	Maximum yellow setting (128 = no yellow)
		255	100	Normal (full range)
-	9	0 - 255	0 - 100	Yellow, fine (LSB)
6	10	0 - 255	0 - 100	CTC (MSB) White → full CTC

*If disabled in the control menu, Reset fixture and Lamp off work only if the following effects are selected:

- Color wheel to slot 1 using DMX value 17 on channel 7 (in basic mode) or 12 (extended mode)
- Beam shaper on using DMX value 1 - 255 on channel 8 (basic) or 14 (extended)

** A five-second delay for the Reset fixture command can be set in the control menu under **IRIS**.

16-bit Basic Mode	16-bit Extended Mode	DMX Value	Percent	Function
-	11	0 - 255	0 - 100	CTC, fine (LSB) White → increased CTC
7	12	0 1 - 16 17 18 - 33 34 35 - 50 51 52 - 67 68 69 - 84 85 86 - 101 102 103 - 118 119 120 - 135 136 137 - 152 153 154 - 158 159 - 163 164 - 168 169 - 173 174 - 178 179 - 183 184 - 188 189 - 193 194 - 198 199 - 219 220 - 240 241 - 245 246 - 250 251 - 255	0 1 - 6 7 8 - 12 13 14 - 19 20 21 - 26 27 28 - 32 33 34 - 39 40 41 - 46 47 48 - 52 53 54 - 59 60 61 - 62 63 - 64 65 - 66 67 - 68 69 - 70 71 - 72 73 - 74 75 - 76 77 - 78 79 - 86 87 - 94 95 - 96 97 - 98 99 - 100	Color wheel (MSB) <i>Continuous scroll</i> Open Open → slot 1 Slot 1 (Blue 110) Slot 1 → slot 2 Slot 2 (Green 206 IAD) Slot 2 → slot 3 Slot 3 (Pink 312) Slot 3 → slot 4 Slot 4 (Orange 306M) Slot 4 → slot 5 Slot 5 (Half minus green) Slot 5 → slot 6 Slot 6 (CTC 3200 - 4100 K) Slot 6 → slot 7 Slot 7 (UV transmitter) Slot 7 → slot 8 Slot 8 (Red 308) Slot 8 → open Open <i>Stepped scroll</i> Slot 8 (Red 308) Slot 7 (UV transmitter) Slot 6 (CTC 3200 - 4100 K) Slot 5 (Half minus green) Slot 4 (Orange 306M) Slot 3 (Pink 312) Slot 2 (Green 206 IAD) Slot 1 (Blue 110) Open <i>Continuous rotation</i> CW, fast → slow CCW, slow → fast <i>Random color</i> Fast Medium Slow
-	13	0 - 255	0 - 100	Color Wheel, fine (LSB)
8	14	0 1 - 255	0 1 - 100	Beam shaper: indexed angled position, rotation direction and speed Open Indexed angle, 0° → 360° <i>If continuous rotation is selected on Macro channel (9 in basic or 15 in extended mode)</i> Open CCW, fast → slow No rotation CW, slow → fast
9	15	0 - 15 16 - 55 56 - 95 96 - 135 136 - 175 176 - 215 216 - 255	0 - 6 7 - 22 23 - 37 38 - 53 54 - 69 70 - 84 85 - 100	Macros No effect Color wheel shake, slow → fast Beam shaper continuous rotation Color wheel shake, slow → fast, plus beam shaper continuous rotation Random CMY (set min. max. limits on channels 3, 4 and 5 in basic mode or 4, 6 and 8 in extended mode) Fast Medium Slow
10	16	0 - 255	0 - 100	Zoom (MSB) Flood → spot

16-bit Basic Mode	16-bit Extended Mode	DMX Value	Percent	Function
-	17	0 - 255	0 - 100	Zoom, fine (LSB)
11	18	0 - 255	0 - 100	Pan (MSB) Left → right (128 = neutral)
12	19	0 - 255	0 - 100	Pan, fine (LSB) Left → right
13	20	0 - 255	0 - 100	Tilt (MSB) Left → right (128 = neutral)
14	21	0 - 255	0 - 100	Tilt, fine (LSB) Left → right
15	22	0 - 2 3 - 242 243 - 245 246 - 248 249 - 251 252 - 255	0 - 1 1 - 95 96 96 - 97 98 99 - 100	Pan/tilt speed Tracking Fast → slow (vector control mode) Tracking, <i>PTSP</i> = <i>SLOW</i> (menu override) Tracking, <i>PTSP</i> = <i>NORM</i> (menu override) Tracking, <i>PTSP</i> = <i>FAST</i> (menu override) Blackout while moving
16	23	0 - 2 3 - 245 246 - 251 252 - 255 0 - 2 3 - 245 246 - 248 249 - 251 252 - 255 0 - 251 252 - 255	0 - 1 1 - 96 96 - 98 99 - 100 0 - 1 1 - 96 96 - 97 98 99 - 100 0 - 98 99 - 100	Effects speed <i>Dimmer, cyan, magenta, yellow, CTC and zoom</i> Tracking Fast → slow (vector control mode) Tracking Blackout while moving <i>Color wheel</i> Tracking Fast → slow (vector control mode) Tracking, <i>SCUT</i> = <i>OFF</i> (menu override) Tracking, <i>SCUT</i> = <i>ON</i> (menu override) Blackout while moving <i>Beam shaper</i> Normal (no blackout) Blackout while moving