

DMX Channel Assignments and Values

Control Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 007	No function	096 ⇔ 103	Pan reset
008 ⇔ 015	Blackout during pan/tilt	104 ⇔ 111	Tilt reset
016 ⇔ 023	Blackout while color wheel is moving	112 ⇔ 119	Color wheel reset
024 ⇔ 031	Blackout while gobo wheels are moving	120 ⇔ 127	Gobo wheels reset
032 ⇔ 039	Blackout during pan/tilt/color wheel	128 ⇔ 131	CTB with gobo on
040 ⇔ 047	Blackout during pan/tilt/gobo wheels	132 ⇔ 135	CTB with gobo off
048 ⇔ 055	Blackout during pan/tilt/color wheel/gobo wheels	136 ⇔ 143	Prism reset
056	No function	144 ⇔ 151	Blades reset
057	600 Hz PWM	152 ⇔ 159	All reset
058	1200 Hz PWM	160 ⇔ 167	Iris reset
059	2000 Hz PWM	168 ⇔ 175	Frost reset
060	4000 Hz PWM	176 ⇔ 183	Zoom reset
061	6000 Hz PWM	184 ⇔ 191	CMY/CTO reset
062	15000 Hz PWM	192 ⇔ 199	Fan mode ECO
063	No function	200 ⇔ 207	Fan mode Full
064	Linear dimmer curve	208 ⇔ 215	Fan mode Auto
065	Square dimmer curve	216 ⇔ 220	Fan mode TV25
066	1 square dimmer curve	221 ⇔ 225	Fan mode TV35
067	Scurve dimmer curve	226 ⇔ 230	No function
068	Linear 2 dimmer curve	231 ⇔ 235	Pan/tilt swap on
069 ⇔ 075	No function	236 ⇔ 240	Pan/tilt swap off
076 ⇔ 079	Engage sun shield	241 ⇔ 245	Min Zoom Focus off
080 ⇔ 084	Disengage sun shield	246 ⇔ 250	Min Zoom Focus on
085 ⇔ 095	No function	251 ⇔ 255	No function

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Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine pan	000 ⇔ 255	Fine control (16-bit)
3	Tilt	000 ⇔ 255	0–100%
4	Fine tilt	000 ⇔ 255	Fine control (16-bit)
5	Pan/tilt speed	000 ⇔ 255	Fast to slow
6	Dimmer	000 ⇔ 255	0–100%
7	Fine dimmer	000 ⇔ 255	Fine control (16-bit)
8	Strobe	000 ⇔ 003	Off
		004 ⇔ 007	On
		008 ⇔ 076	Synchronized strobe, slow to fast
		077 ⇔ 145	Pulse strobe, slow to fast
		146 ⇔ 215	Random strobe, slow to fast
		216 ⇔ 255	On
9	Virtual shaking	000 ⇔ 001	No function
		002 ⇔ 128	Shaking effect, slow to fast
		129 ⇔ 255	Fade effect, slow to fast
10	Cyan	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
11	Magenta	000 ⇔ 255	0–100%
12	Yellow	000 ⇔ 255	0–100%
13	CTO	000 ⇔ 255	0–100%
14	Color wheel	000 ⇔ 006 Open 007 ⇔ 013 Color 1 (red) 014 ⇔ 020 Color 2 (orange) 021 ⇔ 027 Color 3 (green) 028 ⇔ 034 Color 4 (magenta) 035 ⇔ 041 Color 5 (UV) 042 ⇔ 048 Color 6 (CRI) 049 ⇔ 059 Color 7 (CTB) 060 Open 61 ⇔ 187 Color wheel indexing 188 ⇔ 219 Reverse color scroll, fast to slow 220 ⇔ 223 Stop 224 ⇔ 255 Color scroll, slow to fast	
15	Gobo wheel 1 (see Gobo Wheels)	001 ⇔ 007 Open 008 ⇔ 015 Gobo 1 (Pipes & Poles) 016 ⇔ 023 Gobo 2 (Cookie Cutter) 024 ⇔ 031 Gobo 3 (This Way) 032 ⇔ 039 Gobo 4 (Fast Moves) 040 ⇔ 047 Gobo 5 (Laser Rays) 048 ⇔ 055 Gobo 6 (Limbo) 056 ⇔ 063 Gobo 7 (Grate) 064 ⇔ 071 Gobo 7 shaking, slow to fast 072 ⇔ 079 Gobo 6 shaking, slow to fast 080 ⇔ 087 Gobo 5 shaking, slow to fast 088 ⇔ 095 Gobo 4 shaking, slow to fast 096 ⇔ 103 Gobo 3 shaking, slow to fast 104 ⇔ 111 Gobo 2 shaking, slow to fast 112 ⇔ 119 Gobo 1 shaking, slow to fast 120 ⇔ 127 Open 128 ⇔ 191 Gobo scroll, slow to fast 192 ⇔ 255 Reverse gobo scroll, slow to fast	
16	Gobo wheel 1 rotate	000 ⇔ 063 Gobo index 064 ⇔ 145 Clockwise rotation, fast to slow 146 ⇔ 149 Stop 150 ⇔ 231 Counterclockwise rotation, slow to fast 232 ⇔ 255 Gobo bounce, short to long	
17	Gobo 1 fine rotate	000 ⇔ 255	Fine control (16-bit)

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Channel	Function	Value	Percent/Setting
18	Gobo wheel 2 (see Gobo Wheels)	001 ⇄ 005	Open
		006 ⇄ 011	Gobo 1 (Dots)
		012 ⇄ 017	Gobo 2 (Paperclip Party)
		018 ⇄ 023	Gobo 3 (Orbital)
		024 ⇄ 029	Gobo 4 (Dirty Dirt)
		030 ⇄ 035	Gobo 5 (Box Cutter)
		036 ⇄ 041	Gobo 6 (Crazy Turns)
		042 ⇄ 047	Gobo 7 (Hex Chem)
		048 ⇄ 053	Gobo 8 (Scribble)
		054 ⇄ 063	Gobo 9 (Aperture)
		064 ⇄ 069	Gobo 9 shaking, slow to fast
		070 ⇄ 075	Gobo 8 shaking, slow to fast
		076 ⇄ 081	Gobo 7 shaking, slow to fast
		082 ⇄ 087	Gobo 6 shaking, slow to fast
		088 ⇄ 093	Gobo 5 shaking, slow to fast
		094 ⇄ 099	Gobo 4 shaking, slow to fast
		100 ⇄ 105	Gobo 3 shaking, slow to fast
		106 ⇄ 111	Gobo 2 shaking, slow to fast
		112 ⇄ 117	Gobo 1 shaking, slow to fast
		118 ⇄ 127	Open
		128 ⇄ 191	Gobo scroll, slow to fast
		192 ⇄ 255	Reverse gobo scroll, slow to fast
19	Animation	000 ⇄ 255	Animation wheel
20	Animation rotate	000 ⇄ 124	Clockwise rotation, fast to slow
		125 ⇄ 130	Stop
		131 ⇄ 255	Counterclockwise rotation, slow to fast
21	Blade 1-1	000 ⇄ 255	0–100%
22	Fine blade 1-1	000 ⇄ 255	Fine control (16-bit)
23	Blade 1-2	000 ⇄ 255	0–100%
24	Fine blade 1-2	000 ⇄ 255	Fine control (16-bit)
25	Blade 2-1	000 ⇄ 255	0–100%
26	Fine blade 2-1	000 ⇄ 255	Fine control (16-bit)
27	Blade 2-2	000 ⇄ 255	0–100%
28	Fine blade 2-2	000 ⇄ 255	Fine control (16-bit)
29	Blade 3-1	000 ⇄ 255	0–100%
30	Fine blade 3-1	000 ⇄ 255	Fine control (16-bit)
31	Blade 3-2	000 ⇄ 255	0–100%
32	Fine blade 3-2	000 ⇄ 255	Fine control (16-bit)
33	Blade 4-1	000 ⇄ 255	0–100%
34	Fine blade 4-1	000 ⇄ 255	Fine control (16-bit)
35	Blade 4-2	000 ⇄ 255	0–100%
36	Fine blade 4-2	000 ⇄ 255	Fine control (16-bit)
37	Blade rotation	000 ⇄ 255	0–100%
38	Fine blade rotation	000 ⇄ 255	Fine control (16-bit)
39	Focus	000 ⇄ 255	0–100%
40	Fine focus	000 ⇄ 255	Fine control (16-bit)

Channel	Function	Value	Percent/Setting
41	Auto focus	000 ⇔ 010	No function
		011 ⇔ 030	0-5 meters
		031 ⇔ 050	6 meters
		051 ⇔ 070	7 meters
		071 ⇔ 090	8 meters
		091 ⇔ 110	9 meters
		111 ⇔ 130	10 meters
		131 ⇔ 150	12.5 meters
		151 ⇔ 170	15 meters
		171 ⇔ 190	17.5 meters
		191 ⇔ 210	20-60 meters
		211 ⇔ 255	Auto detect distance
42	Zoom	000 ⇔ 255	Wide to narrow
43	Zoom fine	000 ⇔ 255	Fine control (16-bit)
44	Prism	000 ⇔ 004	No function
		005 ⇔ 255	Prism insert
45	Prism rotate	000 ⇔ 127	Prism index
		128 ⇔ 189	Clockwise rotation, fast to slow
		190 ⇔ 193	Stop
		194 ⇔ 255	Counterclockwise rotation, slow to fast
46	Iris	000 ⇔ 063	Open to close
		064 ⇔ 127	Auto change, slow to fast
		128 ⇔ 191	Slow open, fast close, slow to fast
		192 ⇔ 255	Fast open, slow close, slow to fast
47	Frost	000 ⇔ 255	0–100%
48	CMY macro	000 ⇔ 009	No function
		010 ⇔ 255	CMY macro
49	CMY macro speed	000 ⇔ 255	Fast to slow
50	Control (3 second hold)	000 ⇔ 255	See Control Chart

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Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine pan	000 ⇔ 255	Fine control (16-bit)
3	Tilt	000 ⇔ 255	0–100%
4	Fine tilt	000 ⇔ 255	Fine control (16-bit)
5	Pan/tilt speed	000 ⇔ 255	Fast to slow
6	Dimmer	000 ⇔ 255	0–100%
7	Strobe	000 ⇔ 003	Off
		004 ⇔ 007	On
		008 ⇔ 076	Synchronized strobe, slow to fast
		077 ⇔ 145	Pulse strobe, slow to fast
		146 ⇔ 215	Random strobe, slow to fast
		216 ⇔ 255	On

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Channel	Function	Value	Percent/Setting
8	Virtual shaking	000 ⇔ 001	No function
		002 ⇔ 128	Shaking effect, slow to fast
		129 ⇔ 255	Fade effect, slow to fast
9	Cyan	000 ⇔ 255	0–100%
10	Magenta	000 ⇔ 255	0–100%
11	Yellow	000 ⇔ 255	0–100%
12	CTO	000 ⇔ 255	0–100%
13	Color wheel	000 ⇔ 006	Open
		007 ⇔ 013	Color 1 (red)
		014 ⇔ 020	Color 2 (orange)
		021 ⇔ 027	Color 3 (green)
		028 ⇔ 034	Color 4 (magenta)
		035 ⇔ 041	Color 5 (UV)
		042 ⇔ 048	Color 6 (CRI)
		049 ⇔ 059	Color 7 (CTB)
		060	Open
		61 ⇔ 187	Color wheel indexing
		188 ⇔ 219	Reverse color scroll, slow to fast
		220 ⇔ 223	Stop
		224 ⇔ 255	Color scroll, slow to fast
14	Gobo wheel 1 (see Gobo Wheels)	001 ⇔ 007	Open
		008 ⇔ 015	Gobo 1 (Pipes & Poles)
		016 ⇔ 023	Gobo 2 (Cookie Cutter)
		024 ⇔ 031	Gobo 3 (This Way)
		032 ⇔ 039	Gobo 4 (Fast Moves)
		040 ⇔ 047	Gobo 5 (Laser Rays)
		048 ⇔ 055	Gobo 6 (Limbo)
		056 ⇔ 063	Gobo 7 (Grate)
		064 ⇔ 071	Gobo 7 shaking, slow to fast
		072 ⇔ 079	Gobo 6 shaking, slow to fast
		080 ⇔ 087	Gobo 5 shaking, slow to fast
		088 ⇔ 095	Gobo 4 shaking, slow to fast
		096 ⇔ 103	Gobo 3 shaking, slow to fast
		104 ⇔ 111	Gobo 2 shaking, slow to fast
		112 ⇔ 119	Gobo 1 shaking, slow to fast
		120 ⇔ 127	Open
		128 ⇔ 191	Gobo scroll, slow to fast
		192 ⇔ 255	Reverse gobo scroll, slow to fast
15	Gobo wheel 1 rotate	000 ⇔ 063	Gobo index
		064 ⇔ 145	Clockwise rotation, fast to slow
		146 ⇔ 149	Stop
		150 ⇔ 231	Counterclockwise rotation, slow to fast
		232 ⇔ 255	Gobo bounce, short to long

Channel	Function	Value	Percent/Setting
16	Gobo wheel 2 (see Gobo Wheels)	001 ⇄ 005	Open
		006 ⇄ 011	Gobo 1 (Dots)
		012 ⇄ 017	Gobo 2 (Paperclip Party)
		018 ⇄ 023	Gobo 3 (Orbital)
		024 ⇄ 029	Gobo 4 (Dirty Dirt)
		030 ⇄ 035	Gobo 5 (Box Cutter)
		036 ⇄ 041	Gobo 6 (Crazy Turns)
		042 ⇄ 047	Gobo 7 (Hex Chem)
		048 ⇄ 053	Gobo 8 (Scribble)
		054 ⇄ 063	Gobo 9 (Aperture)
		064 ⇄ 069	Gobo 9 shaking, slow to fast
		070 ⇄ 075	Gobo 8 shaking, slow to fast
		076 ⇄ 081	Gobo 7 shaking, slow to fast
		082 ⇄ 087	Gobo 6 shaking, slow to fast
		088 ⇄ 093	Gobo 5 shaking, slow to fast
		094 ⇄ 099	Gobo 4 shaking, slow to fast
		100 ⇄ 105	Gobo 3 shaking, slow to fast
		106 ⇄ 111	Gobo 2 shaking, slow to fast
		112 ⇄ 117	Gobo 1 shaking, slow to fast
		118 ⇄ 127	Open
		128 ⇄ 191	Gobo scroll, slow to fast
		192 ⇄ 255	Reverse gobo scroll, slow to fast
17	Animation	000 ⇄ 255	Gobo indexing
18	Animation rotate	000 ⇄ 124	Clockwise rotation, fast to slow
		125 ⇄ 130	Stop
		131 ⇄ 255	Counterclockwise rotation, slow to fast
19	Blade 1-1	000 ⇄ 255	0–100%
20	Blade 1-2	000 ⇄ 255	0–100%
21	Blade 2-1	000 ⇄ 255	0–100%
22	Blade 2-2	000 ⇄ 255	0–100%
23	Blade 3-1	000 ⇄ 255	0–100%
24	Blade 3-2	000 ⇄ 255	0–100%
25	Blade 4-1	000 ⇄ 255	0–100%
26	Blade 4-2	000 ⇄ 255	0–100%
27	Blade rotation	000 ⇄ 255	0–100%
28	Focus	000 ⇄ 255	0–100%
29	Zoom	000 ⇄ 255	Wide to narrow
30	Prism	000 ⇄ 004	No function
		005 ⇄ 255	Prism insert
31	Prism rotate	000 ⇄ 127	Prism index
		128 ⇄ 189	Clockwise rotation, fast to slow
		190 ⇄ 193	Stop
		194 ⇄ 255	Counterclockwise rotation, slow to fast
32	Iris	000 ⇄ 063	Big to small
		064 ⇄ 127	Auto change, slow to fast
		128 ⇄ 191	Slow open, fast close, slow to fast
		192 ⇄ 255	Fast open, slow close, slow to fast
33	Frost	000 ⇄ 255	0–100%

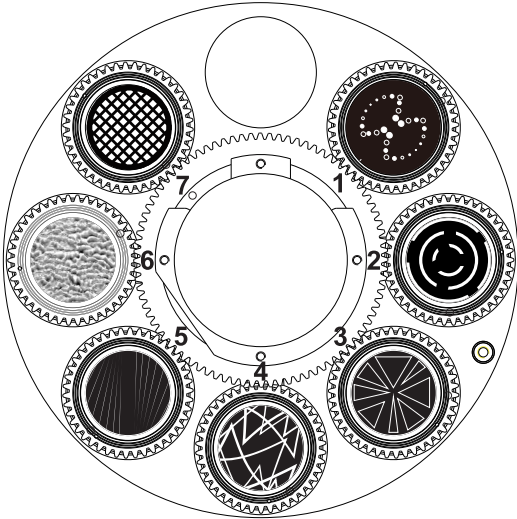
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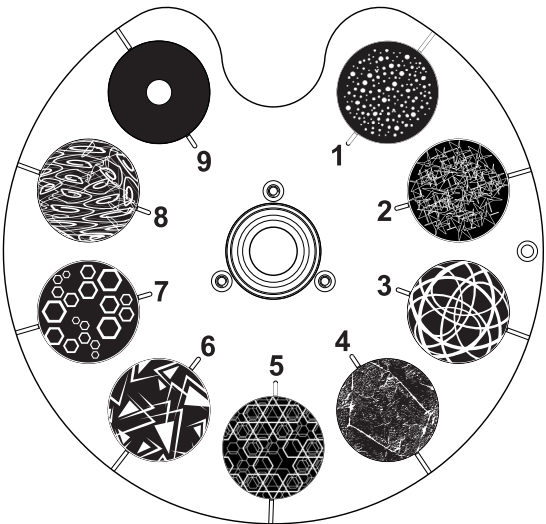


Channel	Function	Value	Percent/Setting
34	Control (3 second hold)	000 ⇔ 255	See Control Chart

Gobo Wheels



Gobo wheel 1
(Rotating)



Gobo wheel 2
(Static)

Color Wheel

