

DMX Channel Assignments and Values

29 CH

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	Off
		002 ⇔ 128	Shaking strobe, slow to fast
		129 ⇔ 255	Fading shake, slow to fast
10	Cyan	000 ⇔ 255	0–100%
11	Magenta	000 ⇔ 255	0–100%
12	Yellow	000 ⇔ 255	0–100%
13	Color wheel (see Color Wheel)	000 ⇔ 006	White
		007 ⇔ 013	Color 1 (red)
		014 ⇔ 020	Color 2 (orange)
		021 ⇔ 027	Color 3 (magenta)
		028 ⇔ 034	Color 4 (CTO 4300K)
		035 ⇔ 041	Color 5 (CTO 3200K)
		042 ⇔ 048	Color 6 (CRI)
		049 ⇔ 059	Color 7 (CTB)
		060 ⇔ 187	Color wheel indexing
		188 ⇔ 219	Reverse color scroll, fast to slow
		220 ⇔ 223	Stop
		224 ⇔ 255	Color scroll, slow to fast

Channel	Function	Value	Percent/Setting
14	Rotating gobo wheel (see Gobo Wheels)	000 ⇔ 007	Open
		008 ⇔ 015	Gobo 1 (sailboats)
		016 ⇔ 023	Gobo 2 (radial dot)
		024 ⇔ 031	Gobo 3 (bar)
		032 ⇔ 039	Gobo 4 (bolts)
		040 ⇔ 047	Gobo 5 (shower glass)
		048 ⇔ 055	Gobo 6 (ballistic clouds)
		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, fast to slow
		192 ⇔ 255	Reverse gobo scroll, slow to fast
15	Gobo wheel 1 rotation	000 ⇔ 063	Gobo indexing
		064 ⇔ 145	Gobo rotation, fast to slow
		146 ⇔ 149	Stop
		150 ⇔ 231	Reverse gobo rotation, slow to fast
		232 ⇔ 255	Gobo bounce, back and forth
16	Fine Gobo wheel 1 rotation	000 ⇔ 255	Fine control (16-bit)
17	Gobo wheel 2 (static) (see Gobo Wheels)	000 ⇔ 005	Open
		006 ⇔ 011	Gobo 1 (beam)
		012 ⇔ 017	Gobo 2 (bars)
		018 ⇔ 023	Gobo 3 (circles)
		024 ⇔ 029	Gobo 4 (breakup)
		030 ⇔ 035	Gobo 5 (dots)
		036 ⇔ 041	Gobo 6 (circuits)
		042 ⇔ 047	Gobo 7 (triangles)
		048 ⇔ 053	Gobo 8 (forest)
		054 ⇔ 063	Gobo 9 (rainbows)
		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, fast to slow
		192 ⇔ 255	Reverse gobo scroll, slow to fast
18	Focus	000 ⇔ 255	0–100%
19	Fine focus	000 ⇔ 255	Fine control (16-bit)

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Channel	Function	Value	Percent/Setting
20	Auto focus	000 ⇔ 010	No function
		011 ⇔ 030	0–5 m
		031 ⇔ 050	6 m
		051 ⇔ 070	7 m
		071 ⇔ 090	8 m
		091 ⇔ 110	9 m
		111 ⇔ 130	10 m
		131 ⇔ 150	12.5 m
		151 ⇔ 170	15 m
		171 ⇔ 190	17.5 m
		191 ⇔ 210	20–60 m
		211 ⇔ 255	Auto-detect distance
21	Zoom	000 ⇔ 255	0–100%
22	Fine zoom	000 ⇔ 255	Fine control (16-bit)
23	Prism	000 ⇔ 004	No function
		005 ⇔ 255	Prism effect
24	Prism rotation	000 ⇔ 127	Prism index
		128 ⇔ 189	Prism rotation, fast to slow
		190 ⇔ 193	Stop
		194 ⇔ 255	Reverse prism rotation, slow to fast
25	Iris	000 ⇔ 063	Open to close
		064 ⇔ 127	Auto change, slow to fast
		128 ⇔ 191	Slow open, fast close (slow to fast)
		192 ⇔ 255	Slow close, fast open (slow to fast)
26	Frost	000 ⇔ 255	0–100%
27	CMY macro	000 ⇔ 009	No function
		010 ⇔ 014	Full CTO
		015 ⇔ 020	Half CTO
		021 ⇔ 255	CMY macro, fast to slow
28	CMY macro speed	000 ⇔ 255	CMY macro speed, fast to slow

Channel	Function	Value	Percent/Setting
29	Control	000 ⇔ 007	No function
		008 ⇔ 015	Pan tilt blackout
		016 ⇔ 023	Color blackout
		024 ⇔ 031	Gobo blackout
		032 ⇔ 039	Pan tilt/color blackout
		040 ⇔ 047	Pan tilt/gobo blackout
		048 ⇔ 055	Pan tilt/color/gobo blackout
		056	No function
		057	PWM 600Hz
		058	PWM 2000Hz
		059	PWM 15000Hz
		060	PWM 65000Hz
		061	No function
		062	No function
		063	No function
		064	Linear dimmer
		065	Square dimmer curve
		066	Inverse square dimmer curve
		067	S-curve dimmer
		068	No function
		069 ⇔ 095	No function
		096 ⇔ 103	Pan reset
		104 ⇔ 111	Tilt reset
		112 ⇔ 119	Color wheel reset
		120 ⇔ 127	Gobo wheels reset
		128 ⇔ 131	Gobo wheel CTB on
		132 ⇔ 135	Gobo wheel CTB off
		136 ⇔ 143	Prism reset
		144 ⇔ 151	No function
		152 ⇔ 159	All reset
		160 ⇔ 167	Iris reset
		168 ⇔ 175	Frost reset
		176 ⇔ 183	Zoom reset
		184 ⇔ 191	CMY reset
		192 ⇔ 199	Fan ECO
		200 ⇔ 207	Fan full
		208 ⇔ 215	Fan auto
		216 ⇔ 220	Fan TV25
		221 ⇔ 225	Fan TV35
		226 ⇔ 230	No function
		231 ⇔ 235	Pan tilt swap on
		236 ⇔ 240	Pan tilt swap off
		241 ⇔ 245	Min Zoom Focus on
		246 ⇔ 250	Min Zoom Focus off
		251 ⇔ 255	No function

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Channel	Function	Value	Percent/Setting
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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
8	Virtual shaking	000 ⇔ 001	Off
		002 ⇔ 128	Shaking strobe, slow to fast
		029 ⇔ 255	Fading shake, slow to fast
9	Cyan	000 ⇔ 255	0–100%
10	Magenta	000 ⇔ 255	0–100%
11	Yellow	000 ⇔ 255	0–100%
12	Color wheel (see Color Wheel)	000 ⇔ 006	White
		007 ⇔ 013	Color 1 (red)
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		042 ⇔ 048	Color 6 (CRI)
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Channel	Function	Value	Percent/Setting
13	Rotating gobo wheel (see Gobo Wheels)	000 ⇔ 007	Open
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		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, fast to slow
		192 ⇔ 255	Reverse gobo scroll, slow to fast
14	Gobo wheel 1 rotation	000 ⇔ 063	Gobo indexing
		064 ⇔ 145	Gobo rotation, fast to slow
		146 ⇔ 149	Stop
		150 ⇔ 231	Reverse gobo rotation, slow to fast
		232 ⇔ 255	Gobo bounce, back and forth
15	Gobo wheel 2 (static) (see Gobo Wheels)	000 ⇔ 005	Open
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		106 ⇔ 111	Gobo 2 shaking, slow to fast
		112 ⇔ 117	Gobo 1 shaking, slow to fast
		118 ⇔ 127	Open
		128 ⇔ 191	Gobo scroll, fast to slow
		192 ⇔ 255	Reverse gobo scroll, slow to fast
16	Focus	000 ⇔ 255	0–100%
17	Zoom	000 ⇔ 255	0–100%

DMX CHART

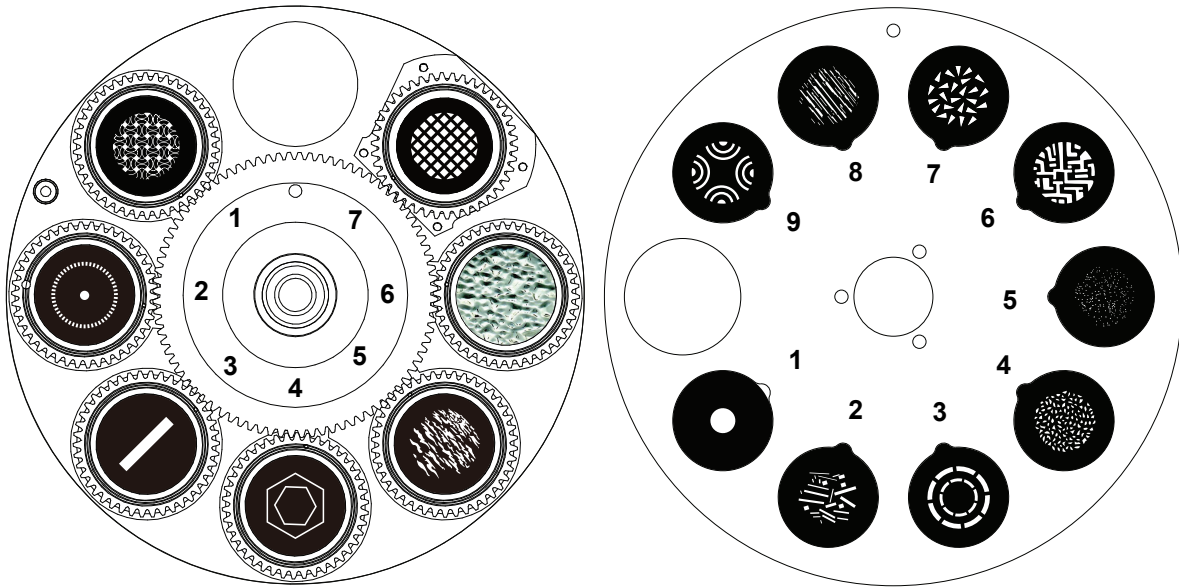
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		005 ⇔ 255	Prism effect
19	Prism rotation	000 ⇔ 127	Prism index
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		190 ⇔ 193	Stop
		194 ⇔ 255	Reverse prism rotation, slow to fast
20	Iris	000 ⇔ 063	Open to close
		064 ⇔ 127	Auto change, slow to fast
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21	Frost	000 ⇔ 255	0–100%

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		160 ⇔ 167	Iris reset
		168 ⇔ 175	Frost reset
		176 ⇔ 183	Zoom reset
		184 ⇔ 191	CMY reset
		192 ⇔ 199	Fan ECO
		200 ⇔ 207	Fan full
		208 ⇔ 215	Fan auto
		216 ⇔ 220	Fan TV25
		221 ⇔ 225	Fan TV35
		226 ⇔ 230	No function
		231 ⇔ 235	Pan tilt swap on
		236 ⇔ 240	Pan tilt swap off
		241 ⇔ 245	Min Zoom Focus on
		246 ⇔ 250	Min Zoom Focus off
		251 ⇔ 255	No function

Gobo Wheels



Color Wheel

