
























DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (70 DMX CHANNELS) - V231








Mode/Channel			Function	Value	Default Value	
Ba	St	Ex				
1	1	1	PAN Movement 8bit:	0-255	128	
	2	2	Pan Fine 16bit: Fine control of Pan movement	0-255	0	
2	3	3	TILT Movement 8bit	0-255	128	
	4	4	Tilt Fine 16bit: Fine control of Tilt movement	0-255	0	
3	5	5	Speed Fan/Tilt Movement	Max to min speed	0-225	0
				Blackout by movement	226-235	
				Blackout by all wheel changing	236-245	
				No function	246-255	
4	6	6	Shutter, Strobe	Shutter closed	0-10	11
				No function (shutter open)	11-20	
				Strobe effect slow to fast	21-117	
				No function (shutter open)	118-126	
				Random strobe effect slow to fast	127-180	
			No function (shutter open)	181-191		
5	7	7	Dimmer Intensity: Intensity 0 to 100%	0-255	0	
			Dimmer Intensity Fine	0-255	0	
6	8	9	Zoom: From small to big	0-255	128	
			Zoom Fine	0-255	0	
7	9	11	Focus: From near to far	0-255	128	
			Focus Fine	0-255	0	
8	10	13	Auto Focus	Auto Focus Off	0-50	0
				5m	51-100	
				7.5 m	101-150	
				10 m	151-200	
				15 m	201-255	
9	11	14	Auto Focus Fine	0-255	0	
10	12	15	Colour Wheel	Open / white	0-3	0
				Colour 1: CTB 1/4 	4-7	
				Colour 2: Congo Blue 	8-11	
				Colour 3: Green 	12-15	
				Colour 4: Orange 	16-19	
				Colour 5: Blue 	20-23	
				Colour 6: Red 	24-27	
				Colour indexing	32-127	
				Forwards rainbow effect from fast to slow	128-189	
				No rotation	190-193	
			Backwards rainbow effect from slow to fast	194-255		
			Colour Wheel Fine	0-255	0	
11	13	17	Cyan Colour (0-white, 255-100% Cyan)	0-255	0	
			Cyan Colour Fine	0-255	0	
12	14	19	Magenta Colour (0-white, 255-100% magenta)	0-255	0	

Mode/Channel			Function	Value	Default Value	
	20		Magenta Colour Fine	0-255	0	
13	15	21	Yellow Colour (0-white, 255-100% Yellow)	0-255	0	
			Yellow Colour Fine	0-255	0	
14	16	23	CTO Colour (0-white, 255-100% CTO)	0-255	0	
			CTO Colour Fine	0-255	0	
15	17	25	CTB Colour (0-white, 255-100% CTB)	0-255	0	
			CTB Colour Fine	0-255	0	
16	18	27	CTP Colour (0-white, 255-100% CTP)	0-255	0	
			CTP Colour Fine	0-255	0	
17	19	29	Colour Presets: See Appendix	0-255	0	
18	20	30	Reserved			
19	21	31	Reserved			
20	22	32	Reserved			
21	23	33	Rotating Gobo Wheel 1	Open	0-9	0
				Rot. gobo 1: Dot Line 4 	10-19	
				Rot. gobo 2: Dot Ring 8 	20-29	
				Rot. gobo 3: Dot Triangle 3 	30-39	
				Rot. gobo 4: Square Beam 4 	40-49	
				Rot. gobo 5: Eccentric Dot 	50-59	
				Rot. gobo 6: Five Spokes 	60-69	
				Rot. gobo 7: Beam Shaper 	70-77	
				Gobo 1 shake slow to fast	78-93	
				Gobo 2 shake slow to fast	94-109	
				Gobo 3 shake slow to fast	110-125	
				Gobo 4 shake slow to fast	126-141	
				Gobo 5 shake slow to fast	142-157	
				Gobo 6 shake slow to fast	158-173	
				Gobo 7 shake slow to fast	174-189	
Gobo wheel rotation forwards from fast to slow	190-221					
No rotation	222-223					
Gobo wheel rotation f backwards from slow to fast	224-255					
22	24	34	Rotating Gobo Wheel 1 Index, Rotation	Gobo indexing	142-157	0
				Forwards gobo rotation from fast to slow	158-173	
				No rotation	174-189	
				Backwards gobo rotation from slow to fast	190-221	
			Rotating Gobo Wheel 1 Index, Rotation Fine		0	
23	25	36	Rotating Gobo Wheel 2	Open	0-9	0
				Rot. gobo 1: Star Dust 	10-19	
				Rot. gobo 2: Water 	20-29	
				Rot. gobo 3: Prison Bars 	30-39	
				Rot. gobo 4: Smoke Rings 	40-49	
				Rot. gobo 5: Deep Forest 	50-59	

Mode/Channel			Function	Value	Default Value	
23	25	36	Rotating Gobo Wheel 2	Rot. gobo 6: Tree Bark 	60-69	0
				Rot. gobo 7: Nested Rings Yellow 	70-79	
				Gobo 1 shake slow to fast	80-89	
				Gobo 2 shake slow to fast	90-99	
				Gobo 3 shake slow to fast	100-109	
				Gobo 4 shake slow to fast	110-119	
				Gobo 5 shake slow to fast	120-129	
				Gobo 6 shake slow to fast	130-139	
				Gobo 7 shake slow to fast	140-149	
				Gobo wheel rotation forwards from fast to slow	170-179	
				No rotation	180-189	
				Gobo wheel rotation f backwards from slow to fast	190-221	
24	26	37	Rotating Gobo Wheel 2 Index, Rotation	Gobo indexing	0-127	0
				Forwards gobo rotation from fast to slow	128-189	
				No rotation	190-193	
				Backwards gobo rotation from slow to fast	194-255	
38			Rotating Gobo Wheel 2 Index, Rotation Fine	0-255	0	
25	27	39	Animation Wheel 1	Open 	0-7	0
				Forwards rotation from fast to slow	8-127	
				No rotation 	128-135	
				Backwards rotation from slow to fast	136-255	
26	28	40	Animation Wheel 2: Animation indexing	Open 	0-255	0
				Animation Left-Right 	1	
				Animation Top-Bottom 	128	
				Animation Center 	255	
27	29	41	Rotating Animation wheel 2	No rotation	0-7	0
				Forwards rotation from fast to slow	8-127	
				No rotation	128-135	
				Backwards rotation from slow to fast	136-255	
28	30	42	Iris	Max. diameter to Min.diameter	0-191	0
				Pulse closing fast to slow	192-223	
				Pulse opening slow to fast	224-255	
43			Iris Fine	0-255	0	
29	31	44	Prism 1	Open	0-127	0
				Prism 1: 5-facet circular 	128-255	
30	32	45	Prism 1 Index, Rotation	Prism indexing	0-127	0
				Forwards prism rotation from fast to slow	128-189	
				No rotation	190-193	
				Backwards prism rotation from slow to fast	194-255	
46			Prism 1 Index, Rotation Fine	0-255	0	

Mode/Channel			Function	Value	Default Value	
31	33	47	Prism 2	Open	0-127	0
				Prism 2: 5-facet linear 	128-255	
32	34	48	Prism 2 Index, Rotation	Prism indexing	0-127	0
				Forwards prism rotation from fast to slow	128-189	
				No rotation	190-193	
				Backwards prism rotation from slow to fast	194-255	
49			Prism 2 Index, Rotation Fine	0-255	0	
33	35	50	Frost 1: 0-100%	0-255	0	
34	36	51	Frost 2: 0-100%	0-255	0	
35	37	52	Blade 1A: Open to Close	0-255	0	
				53	Blade 1A Fine: Open to Close Fine	0-255
36	38	54	Blade 1B: Open to Close	0-255	0	
				55	Blade 1B Fine: Open to Close Fine	0-255
37	39	56	Blade 2A: Open to Close	0-255	0	
				57	Blade 2A Fine: Open to Close Fine	0-255
38	40	58	Blade 2B: Open to Close	0-255	0	
				59	Blade 2B Fine: Open to Close Fine	0-255
39	41	60	Blade 3A: Open to Close	0-255	0	
				61	Blade 3A Fine: Open to Close Fine	0-255
40	42	62	Blade 3B: Open to Close	0-255	0	
				63	Blade 3B Fine: Open to Close Fine	0-255
41	43	64	Blade 4A: Open to Close	0-255	0	
				65	Blade 4A Fine: Open to Close Fine	0-255
42	44	66	Blade 4B: Open to Close	0-255	0	
				67	Blade 4B Fine: Open to Close Fine	0-255
43	45	68	All Blade Rotation: +/- 90°	0-255	128	
				69	All Blade Rotation Fine	0-255
44	46	70	Control, Reset, Internal Programs	unused	0-4	0
				Display Off	5-9	
				Display On	10-14	
				Display Invert Off	15-19	
				Display Invert On	20-24	
				Auto fan control mode	25-26	
				Stage fan control mode	27-28	
				Silence fan control mode	29-30	
				Super Silence fan control mode	31-32	
				Constant Fans Off	33-34	
				Constant Fans On	35-36	
				unused	37-44	
Square Law	45-49					
Linear	50-54					
1.2K	55-58					

Mode/Channel	Function	Value	Default Value
44 46 70	Control, Reset, Internal Programs	2.4 K	59-62
		16 K	63-66
		25 K	67-69
		Gobo correction Off	70-74
		Gobo correction On	75-79
		All motor reset	80-84
		Scan motor reset	85-87
		Colours motor reset	88-90
		Gobo motor reset	91-93
		unused	94
		Reset P/T Fade Off	95
		Reset P/T Fade On	96
		Other motor reset	97-99
		Frost Progressive Off	100-102
		Frost Progressive On	103-105
		CMY speed Fast	106-108
		CMY speed Medium	109-111
		CMY speed Slow	112-114
		Pan/Tilt Spd Medium	115-117
		Pan/Tilt Spd Fast	118-120
		Pan/Tilt Spd Slow	121-123
		Pan/Tilt Spd FS Mode	124-126
		Prerig INIT Off	127-129
		Prerig INIT On	130-132
		unused	133-255

Mode/Channel	Function	Value	Default Value
6	Shutter, strobe	Random strobe effect slow to fast	127-180
		No function (shutter open)	181-191
7	Dimmer Intensity: Intensity 0 to 100%	0-255	0
8	Dimmer Intensity Fine	0-255	0
12	Zoom: From small to big	0-255	128
13	Zoom Fine	0-255	0
14	Focus: From near to far	0-255	128
15	Focus Fine	0-255	0
16	Auto Focus	Auto Focus Off	0-50
		5m	51-100
		7.5 m	101-150
		10 m	151-200
		15 m	201-255
17	Auto Focus Fine	0-255	0
18	Colour Wheel	Open / white	0-3
		Colour 1: CTB 1/4 	4-7
		Colour 2: Congo Blue 	8-11
		Colour 3: Green 	12-15
		Colour 4: Orange 	16-19
		Colour 5: Blue 	20-23
		Colour 6: Red 	24-27
		Colour indexing	32-127
		Forwards rainbow effect from fast to slow	128-189
		No rotation	190-193
		Backwards rainbow effect from slow to fast	194-255
19	Colour Wheel Fine	0-255	0
20	CTB/CRI	Open	0-63
		CTB	64-127
		unused	128-255
21	Cyan Colour (0-white, 255-100% Cyan)	0-255	0
22	Cyan Colour Fine	0-255	0
23	Magenta (0-white, 255-100% magenta)	0-255	0
24	Magenta Colour Fine	0-255	0
25	Yellow Colour (0-white, 255-100% Yellow)	0-255	0
26	Yellow Colour Fine	0-255	0
27	CTO Colour (0-white, 255-100% CTO)	0-255	0
28	CTO Colour Fine	0-255	0
9	Reserved		
10	Reserved		
11	Reserved		
29	Rotating Gobo Wheel 1 	Open	0-9
		Rot. gobo 1: Dot Line 4	10-19

DOMINO MODE

Mode/Channel	Function	Value	Default Value
Domino Mode			
1	PAN Movement 8bit	0-255	128
2	Pan Fine 16bit	0-255	0
3	TILT Movement 8bit	0-255	128
4	Tilt Fine 16bit	0-255	0
5	Speed Fan/Tilt movement	Max to min speed	0-225
		Blackout by movement	226-235
		Blackout by all wheel changing	236-245
		No function	246-255
6	Shutter, strobe	Shutter closed	0-10
		No function (shutter open)	11-20
		Strobe effect slow to fast	21-117
		No function (shutter open)	118-126

DOMINO MODE

Mode/Channel	Function	Value	Default Value	
29	Rot. gobo 2: Dot Ring 8	20-29	0	
	Rot. gobo 3: Dot Triangle 3	30-39		
	Rot. gobo 4: Square Beam 4	40-49		
	Rot. gobo 5: Eccentric Dot	50-59		
	Rot. gobo 6: Five Spokes	60-69		
	Rot. gobo 7: Beam Shaper	70-77		
	Gobo 1 shake slow to fast	78-93		
	Gobo 2 shake slow to fast	94-109		
	Gobo 3 shake slow to fast	110-125		
	Gobo 4 shake slow to fast	126-141		
	Gobo 5 shake slow to fast	142-157		
	Gobo 6 shake slow to fast	158-173		
	Gobo 7 shake slow to fast	174-189		
	Gobo wheel rotation forwards from fast to slow	190-221		
	No rotation	222-223		
	Gobo wheel rotation f backwards from slow to fast	224-255		
30	Rotating Gobo Wheel 1 Index, Rotation	Gobo indexing	0-127	0
	Forwards gobo rotation from fast to slow	128-189		
	No rotation	190-193		
	Backwards gobo rotation from slow to fast	194-255		
31	Rotating Gobo Wheel 1 Index, Rotation Fine		0	
32	Rotating Gobo Wheel 2	Open	0-9	0
	Rot. gobo 1: Star Dust	10-19		
	Rot. gobo 2: Water	20-29		
	Rot. gobo 3: Prison Bars	30-39		
	Rot. gobo 4: Smoke Rings	40-49		
	Rot. gobo 5: Deep Forest	50-59		
	Rot. gobo 6: Tree Bark	60-69		
	Rot. gobo 7: Nested Rings Yellow	70-79		
	Gobo 1 shake slow to fast	80-89		
	Gobo 2 shake slow to fast	90-99		
	Gobo 3 shake slow to fast	100-109		
	Gobo 4 shake slow to fast	110-119		
	Gobo 5 shake slow to fast	120-129		
	Gobo 6 shake slow to fast	130-139		
	Gobo 7 shake slow to fast	140-149		
	Gobo wheel rotation forwards from fast to slow	170-179		
	No rotation	180-189		
	Gobo wheel rotation f backwards from slow to fast	190-221		

Mode/Channel	Function	Value	Default Value	
33	Rotating Gobo Wheel 2 Index, Rotation	Gobo indexing	0-127	0
	Forwards gobo rotation from fast to slow	128-189		
	No rotation	190-193		
	Backwards gobo rotation from slow to fast	194-255		
34	Rotating Gobo Wheel 2 Index, Rotation fine		0-255	0
35	Animation Wheel 1	Open	0	0
	Animation indexing	1-239		
	Shake slow to fast	240-255		
36	Animation Wheel 1	Open	0-7	0
	Forwards rotation from fast to slow	8-127		
	No rotation	128-135		
	Backwards rotation from slow to fast	136-255		
37	Animation Wheel 2	Open	0-7	0
	Forwards rotation from fast to slow	8-127		
	No rotation	128-135		
	Backwards rotation from slow to fast	136-255		
38	Iris	Max. diameter to Min.diameter	0-191	0
	Pulse closing fast to slow	192-223		
	Pulse opening slow to fast	224-255		
39	Iris Fine		0-255	0
40	Prism 1	Open	0-127	0
	Prism 1: 5-facet circular	128-255		
41	Prism 1 Index, Rotation :	Prism indexing	0-127	0
	Forwards prism rotation from fast to slow	128-189		
	No rotation	190-193		
	Backwards prism rotation from slow to fast	194-255		
42	Prism 1 Index, Rotation Fine		0-255	0
43	Prism 2	Open	0-127	0
	Prism 2: 5-facet linear	128-255		
44	Prism 2 Index, Rotation	Prism indexing	0-127	0
	Forwards prism rotation from fast to slow	128-189		
	No rotation	190-193		
	Backwards prism rotation from slow to fast	194-255		
45	Prism 2 Index, Rotation Fine		0-255	0
46	Frost 1: 0-100%		0-255	0
47	Frost 2: 0-100%		0-255	0
48	Blade 1A: Open to Close		0-255	0
49	Blade 1A Fine: Open to Close Fine		0-255	0
50	Blade 1B: Open to Close		0-255	0
51	Blade 1B Fine: Open to Close Fine		0-255	0
52	Blade 2A: Open to Close		0-255	0

Mode/Channel	Function	Value	Default Value	
53	Blade 2A Fine: Open to Close Fine	0-255	0	
54	Blade 2B: Open to Close	0-255	0	
55	Blade 2B Fine: Open to Close Fine	0-255	0	
56	Blade 3A: Open to Close	0-255	0	
57	Blade 3A Fine: Open to Close Fine	0-255	0	
58	Blade 3B: Open to Close	0-255	0	
59	Blade 3B Fine: Open to Close Fine	0-255	0	
60	Blade 4A: Open to Close	0-255	0	
61	Blade 4A Fine: Open to Close Fine	0-255	0	
62	Blade 4B: Open to Close	0-255	0	
63	Blade 4B Fine: Open to Close Fine	0-255	0	
64	All Blade Rotation: +/- 90°	0-255	128	
65	All Blade Rotation Fine	0-255	0	
66	Control, Reset, Internal Programs	unused	0-4	0
		Display Off	5-9	
		Display On	10-14	
		Display Invert Off	15-19	
		Display Invert On	20-24	
		Auto fan control mode	25-26	
		Stage fan control mode	27-28	
		Silence fan control mode	29-30	
		Super Silence fan control mode	31-32	
		Constant Fans Off	33-34	
		Constant Fans On	35-36	
		unused	37-44	
		Square Law	45-49	
		Linear	50-54	
		1.2 K	55-58	
		2.4 K	59-62	
		16 K	63-66	
		25 K	67-69	
		Gobo correction Off	70-74	
		Gobo correction On	75-79	
		All motor reset	80-84	
		Scan motor reset	85-87	
		Colours motor reset	88-90	
		Gobo motor reset	91-93	
unused	94			
Reset P/T Fade Off	95			
Reset P/T Fade On	96			
Other motor reset	97-99			
Frost Progressive Off	100-102			

Mode/Channel	Function	Value	Default Value	
66	Control, Reset, Internal Programs	Frost Progressive On	103-105	0
		CMY speed Fast	106-108	
		CMY speed Medium	109-111	
		CMY speed Slow	112-114	
		Pan/Tilt Spd Medium	115-117	
		Pan/Tilt Spd Fast	118-120	
		Pan/Tilt Spd Slow	121-123	
		Pan/Tilt Spd FS Mode	124-126	
		Prerig INIT Off	127-129	
		Prerig INIT On	130-132	
		unused	133-255	

COLOUR PRESETS

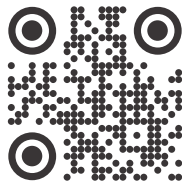
APPENDIX	
Name (=DMX value)	Colour name
EC003	Lavender Tint
EC004	Medium Bastard Amber
EC007	Pale Yellow
EC008	Dark Salmon
EC009	Pale Amber Gold
EC010	Medium Yellow
EC013	Straw Tint
EC015	Deep Straw
EC017	Surprise Peach
EC020	Medium Amber
EC021	Gold Amber
EC022	Dark Amber
EC024	Scarlet
EC025	Sunset Red
EC026	Bright Red
EC029	Palsa Red
EC035	Light Pink
EC036	Medium Pink
EC046	Dark Magenta
EC048	Dark Purple
EC052	Light Lavender
EC053	Pale Lavender
EC058	Lavender
EC063	Pale Blue
EC068	Sky Blue
EC071	Tokio Blue

COLOUR PRESETS

Name (=DMX value)	Colour name
EC075	Evening Blue
EC079	Just Blue
EC085	Deeper Blue
EC088	Lime Green
EC089	Moss Green
EC090	Darkyellow Green
EC100	Spring Yellow
EC101	Yellow
EC102	Light Amber
EC103	Straw
EC104	Deep Amber
EC105	Orange
EC106	Primay Red
EC107	Light Rose
EC108	English Rose
EC109	Light Salmon
EC110	Middle Rose
EC111	Dark Pink
EC113	Magenta
EC111	Medium Blue Green
EC118	Light Blue
EC119	Dark Blue
EC120	Deep Blue
EC124	Dark Green
EC126	Mauve
EC127	Smokey Pink
EC128	Bright Pink
EC132	Medium Blue
EC134	Golden Amber
EC136	Pale Lavender
EC137	Special Lavender
EC138	Pale Green
EC139	Primary Green
EC140	Summer Blue
EC141	Bright Blue
EC142	Pale Violet
EC143	Pale Navy Blue
EC147	Apricot
EC148	Bright Rose
EC151	Gold Tint
EC152	Pale Gold
EC153	Pale Salmon

Name (=DMX value)	Colour name
EC154	Pale Rose
EC156	Chocolate
EC158	Deep Orange
EC159	No Colour Straw
EC161	Slate Blue
EC162	Bastard Amber
EC164	Flame Red
EC165	Daylight Blue
EC169	Lilac Tint
EC170	Deep Lavender
EC172	Lagoon Blue
EC174	Dark Steel Blue
EC176	Loving Amber
EC179	Chrome Orange
EC180	Dark Lavender
EC181	Congo Blue
EC182	Light Red
EC183	Moonlight Blue
EC192	Flesh Pink
EC193	Rosy Amber
EC194	Surprise Pink
EC195	Zenith Blue
EC196	True Blue
EC197	Alice Blue
EC198	Palace Blue

Errors and omissions for all information given in this DMX chart are possible. All information is subject to change without prior notice.



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