

DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (45DMX CHANNELS) - V124

Mode/Channel			Function	Value	Default Value	
Ba	Std	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 Pan/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	Pan Motor Continuous Rotation	Stop rotation by spinout	0-63	0
				Stop rotation by shortcut	64-127	
				Forwards Pan rotation from fast to slow	128-189	
				No rotation	190-193	
			Backwards Pan rotation from slow to fast	194-255		
5	7	7	Tilt Motor Continuous Rotation	Stop rotation by spinout	0-63	0
				Stop rotation by shortcut	64-127	
				Forwards Tilt rotation from fast to slow	128-189	
				No rotation	190-193	
			Backwards Tilt rotation from slow to fast	194-255		
6	8	8	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	
				Pulse-effect in sequences	127-180	
				No function (shutter open)	181-191	
				Random strobe effect slow to fast	192-245	
				No function (shutter open)	246-255	
7	9	9	Dimmer Intensity	0-255	0	
	10		Dimmer Intensity Fine	0-255	0	
8	10	11	CTO Colour: 0-white, 255-100% CTO	Only for Std CTO & Ex CTO	0-255	0
9	11	12	CTO Colour Fine		0-255	0
10	12	13	Reserved			
11	13	14	Zoom: From small to big	0-255	19	
	15		Zoom Fine	0-255	83	
12	14	16	Focus: From near to far	0-255	90	
	17		Focus Fine	0-255	192	
13	15	18	Auto Focus	Auto Focus Off	0-50	0
				5 m	51-100	
				7.5 m	101-150	
				10 m	151-200	
				15 m	201-255	
14	16	19	Auto Focus Fine	0-255	0	





Mode/Channel				Function	Value	Default Value	
15	17	20	Zoom Mode	Beam mode	0-84	0	
				Spot mode	85-169		
				Special mode	170-255		
16	18	21	Colour Wheel	Open	0	0	
				CTO (0-white, 63-100% CTO)	Only for Std & Ex		1-63
				Colour 1: Green			64
				Colour 2: Orange			65
				Colour 3: Blue			66
				Colour 4: Red			67
				Colour 5: Pink			68
				Colour 6: Medium Yellow			69
				Colour 7: Deep Purple			70
				Colour 8: Velvet Green			71
				Colour 9: Amber			72
				Colour 10: Light Blue			73
				Colour 11: Light Red			74
				Colour 12: Follies Pink			75
				Colour 13: Yellow			76
				Colour 14: Slate Blue			77
				Colour 15: Dark Green			78
				Colour 16: Dark Amber			79
				Colour 17: Medium Blue			80
				Colour 18: Magical Magenta			81
				Colour 19: Oklahoma Yellow			82
Colour 20: Congo Blue		83					
Colour 21: UV		84					
Colour 22: Minus Green 1/4		85					
Colour 23: Minus Green 1/2		86					
Colour 24: CTB 1/4		87					
Colour 25: CTB 1/2		88					
Colour 26: CTB		89					
Colour 27: Light Amber		90					
			unused	91-127			
			Forward rainbwo effect from fast to slow	128-189			
			No rotation	190-193			
			Backwards rainbwo effect from slow to fast	194-255			
		22	Colour Wheel Fine	0-255	0		
17	19	23	Cyan Colour (0-white, 255-100% Cyan)	0-255	0		
		24	Cyan Colour Fine	0-255	0		
18	20	25	Magenta Colour (0-white, 255-100% magenta)	0-255	0		
		26	Magenta Colour Fine	0-255	0		





Mode/Channel			Function	Value	Default Value	
19	21	27	Yellow Colour (0-white, 255-100% Yellow)	0-255	0	
		28	Yellow Colour Fine		0	
20	22	29	Rotating Gobo Wheel	Open	0-9	0
				Rot. gobo 1: Eccentric Dot	10-13	
				Rot. gobo 2: Lines Mix	14-17	
				Rot. gobo 3: Dot Square 4	18-21	
				Rot. gobo 4: Square Beam 4	22-25	
				Rot. gobo 5: Nuclear	26-29	
				Rot. gobo 6: Dot Line 4	30-33	
				Rot. gobo 7: Dot Ring 6	34-37	
				Rot. gobo 8: Dot Mix	38-41	
				Rot. gobo 9: Five Spokes	42-45	
				Rot. gobo 10: Nested Half Rings	46-49	
				Rot. gobo 11: Eight Spokes	50-53	
				Rot. gobo 12: Nested Rings Yellow	54-57	
				Gobo 1 shake slow to fast	58-68	
				Gobo 2 shake slow to fast	69-79	
				Gobo 3 shake slow to fast	80-90	
				Gobo 4 shake slow to fast	91-101	
				Gobo 5 shake slow to fast	102-112	
				Gobo 6 shake slow to fast	113-123	
				Gobo 7 shake slow to fast	124-134	
Gobo 8 shake slow to fast	135-145					
Gobo 9 shake slow to fast	146-156					
Gobo 10 shake slow to fast	157-167					
Gobo 11 shake slow to fast	168-178					
Gobo 12 shake slow to fast	179-189					
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					
21	23	30	Rotating Gobo Wheel 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 Index, Rotation Fine	0-255	0	
22	24	32	Static Gobo Wheel	Open	0-2	0
				Forwards rotation from fast to slow	3-14	
				No rotation	15-17	
				Backwards rotation from slow to fast	18-29	
				Gobo 1: 80% Iris Beam	30	

Mode/Channel			Function	Value	Default Value	
			Gobo 2: 60% Iris Beam	31		
			Gobo 3: 40% Iris Beam	32		
			Gobo 4: 20% Iris Beam	33		
			Gobo 5: Dot Line 2	34		
			Gobo 6: Dot Triangle 3	35		
			Gobo 7: Dot Square 4	36		
			Gobo 8: Dot Ring 5	37		
			Gobo 9: Zig Zag Light	38		
			Gobo 10: Vortex Light	39		
			Gobo 11: Spiral	40		
			Gobo 12: Helix 5	41		
			Gobo 13: Triangle Beam	42		
			Gobo 14: Daisy	43		
			Gobo 15: Nested Star	44		
			Gobo 16: Square Ring 8	45		
			Gobo 17: Circular Saw 4	46		
			Gobo 18: Waves Light	47		
			Gobo 19: Prison Bars	48		
			Gobo 20: Ink Stain	49		
			Gobo 21: Arrows	50		
22	24	32	Static Gobo Wheel	Gobo 22: Iris 8	51	0
				Gobo 23: Dot Mix 8	52	
				Gobo 24: Quarter Beam NE	53	
				Gobo 25: Quarter Beam SE	54	
				Gobo 26: Quarter Beam SW	55	
				Gobo 27: Quarter Beam NW	56	
				Gobo 28: Half Beam Up	57	
				Gobo 29: Half Beam Down	58	
				Gobo 30: Half Beam Left	59	
				Gobo 31: Half Beam Right	60	
				Gobo 32: Crash Test Icon	61	
				Gobo 33: Split Triangle 4	62	
				Gobo 34: Split Triangle 1	63	
				Gobo 35: Iron Ball Light	64	
				Open	65	
				Gobo 36: Vertical Line	66	
				Gobo 37: Bold Line	67	
				Gobo 38: Square Line 3 V	68	
				Gobo 39: Square Line 3 H	69	
				Gobo 40: Four Lines H	70	
				Gobo 41: Four Lines V	71	
				Gobo 42: Square Beam	72	

Mode/Channel	Function	Value	Default Value
22 24 32	Gobo 43: Rubik Cube		73
	Gobo 44: Split Cross		74
	Gobo 45: Square Beam 9		75
	Gobo 46: Dot Ring 6		76
	Gobo 47: Dot Ring 7		77
	Gobo 48: Split Circle 6		78
	Gobo 49: Dot Mix		79
	Gobo 50: Triangle Beam		80
	Gobo 51: Compass 4		81
	Gobo 52: Star Line 5		82
	Gobo 53: Star 5		83
	Gobo 54: Star 8		84
	Gobo 55: Star 10		85
	Gobo 56: Star 12		86
	Gobo 57: Arrow Ring 6		87
	Gobo 58: Helix 3		88
	Gobo 59: Five Spokes		89
	Gobo 60: Arrow Ring 3		90
	Gobo 61: Nested Cross		91
	Gobo 62: Split Square 1		92
	Gobo 63: X Cross		93
	Gobo 64: Tilde		94
	Open		95
	Gobo 65: Mirror Ball 9		96
	Gobo 66: Split Target		97
	Gobo 67: Split Square 2		98
	Gobo 68: Split Triangle 2		99
	Gobo 69: Split Circle 2		100
	Gobo 70: Number 0		101
	Gobo 71: Number 1		102
	Gobo 72: Number 2		103
	Gobo 73: Number 3		104
Gobo 74: Number 4		105	
Gobo 75: Number 5		106	
Gobo 76: Number 6		107	
Gobo 77: Number 7		108	
Gobo 78: Number 8		109	
Gobo 79: Number 9		110	
Gobo 1 shake		111	
Gobo 2 shake		112	
Gobo 3 shake		113	
Gobo 4 shake		114	

Mode/Channel	Function	Value	Default Value
22 24 32	Gobo 5 shake		115
	Gobo 6 shake		116
	Gobo 7 shake		117
	Gobo 8 shake		118
	Gobo 9 shake		119
	Gobo 10 shake		120
	Gobo 11 shake		121
	Gobo 12 shake		122
	Gobo 13 shake		123
	Gobo 14 shake		124
	Gobo 15 shake		125
	Gobo 16 shake		126
	Gobo 17 shake		127
	Gobo 18 shake		128
	Gobo 19 shake		129
	Gobo 20 shake		130
	Gobo 21 shake		131
	Gobo 22 shake		132
	Gobo 23 shake		133
	Gobo 24 shake		134
	Gobo 25 shake		135
	Gobo 26 shake		136
	Gobo 27 shake		137
	Gobo 28 shake		138
	Gobo 29 shake		139
	Gobo 30 shake		140
	Gobo 31 shake		141
	Gobo 32 shake		142
	Gobo 33 shake		143
	Gobo 34 shake		144
	Gobo 35 shake		145
	Gobo 36 shake		146
Gobo 37 shake		147	
Gobo 38 shake		148	
Gobo 39 shake		149	
Gobo 40 shake		150	
Gobo 41 shake		151	
Gobo 42 shake		152	
Gobo 43 shake		153	
Gobo 44 shake		154	
Gobo 45 shake		155	
Gobo 46 shake		156	

Mode/Channel	Function	Value	Default Value	
22 24 32	Static Gobo Wheel	Gobo 47 shake	157	0
		Gobo 48 shake	158	
		Gobo 49 shake	159	
		Gobo 50 shake	160	
		Gobo 51 shake	161	
		Gobo 52 shake	162	
		Gobo 53 shake	163	
		Gobo 54 shake	164	
		Gobo 55 shake	165	
		Gobo 56 shake	166	
		Gobo 57 shake	167	
		Gobo 58 shake	168	
		Gobo 59 shake	169	
		Gobo 60 shake	170	
		Gobo 61 shake	171	
		Gobo 62 shake	172	
		Gobo 63 shake	173	
		Gobo 64 shake	174	
		Gobo 65 shake	175	
		Gobo 66 shake	176	
		Gobo 67 shake	177	
		Gobo 68 shake	178	
		Gobo 69 shake	179	
		Gobo 70 shake	180	
		Gobo 71 shake	181	
		Gobo 72 shake	182	
		Gobo 73 shake	183	
		Gobo 74 shake	184	
		Gobo 75 shake	185	
		Gobo 76 shake	186	
		Gobo 77 shake	187	
		Gobo 78 shake	188	
Gobo 79 shake	189			
Clock-wise scroll from fast to slow	190-221			
Reserved	222-223			
Counter clock-wise scroll from slow to fast	224-255			
23 25 33	Prism 1, Frost	Open	0-40	0
		Prism 1: 5-facet circular	 41-83	
		Prism 2: 6-facet circular	 84-126	
		Prism 3: 6-facet linear	 127-169	
		Prism 4: 4 facet-linear	 170-212	
		Heavy Frost	213-255	

Mode/Channel	Function	Value	Default Value	
24 26 34	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	
	35 Prism 1 Index, Rotation Fine	0-255	0	
25 27 36	Prism 2, Frost	Open	0-40	0
		Prism 1: 16-facet circular	 41-83	
		Prism 2: 6-facet circular	 84-126	
		Prism 3: 6-facet linear	 127-169	
		Prism 4: 4-facet linear	 170-212	
		Light Frost	213-255	
26 28 37	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	
	38 Prism 2 Index, Rotation Fine	0-255	0	
27 29 39	Reserved	0-255	0	
28 30 40	Reserved	0-255	0	
29 31 41	Reserved	0-255	0	
30 32 42	Reserved	0-255	0	
31 33 43	Reserved	0-255	0	
32 34 44	Reserved	0-255	0	
33 35 45	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	55-57			
2.4 K	58-60			
16 K	61-63			
25 K	64-69			

Mode/ Channel	Function	Value	Default Value																																																																									
33	35	45	Control, Reset, Internal Programs	Prism Mode Simple	70-74	0	Prism Mode Full	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	unused	100-102	unused	103-105	CMY speed Slow	106-108	CMY speed Medium	109-111	CMY speed Fast	112-114	Prerig INIT Off	115-117	Prerig INIT On	118-120	Pan Degree 540°	121-123	Pan Degree 630°	124-126	Tilt Degree 540°	127-129	Tilt Degree 270°	130-132	CTO Control: Colour Wheel	133-135	CTO Control: Separate Ch	136-138	Illumination Limit: 25 m Distance	139-141	Illumination Limit: 15 m Distance	142-144	Illumination Limit: 8 m Distance	145-147	Reset LED Fade Off	148-150	Reset LED Fade On	151-153	Beam Mode: Limited Range	154-156	Beam Mode: Full Range	157-159	Zoom behavior: Off	160-162	Zoom behavior: Cobra 2	163-165	Pan/Tilt Spd Fast	166-168	Pan/Tilt Spd Medium	169-171	Pan/Tilt Spd Slow	172-174	unused	175-255
				Prism Mode Simple	70-74		0																																																																					
				Prism Mode Full	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																																																																							
				unused	100-102																																																																							
				unused	103-105																																																																							
				CMY speed Slow	106-108																																																																							
				CMY speed Medium	109-111																																																																							
				CMY speed Fast	112-114																																																																							
				Prerig INIT Off	115-117																																																																							
				Prerig INIT On	118-120																																																																							
				Pan Degree 540°	121-123																																																																							
				Pan Degree 630°	124-126																																																																							
				Tilt Degree 540°	127-129																																																																							
				Tilt Degree 270°	130-132																																																																							
				CTO Control: Colour Wheel	133-135																																																																							
				CTO Control: Separate Ch	136-138																																																																							
				Illumination Limit: 25 m Distance	139-141																																																																							
				Illumination Limit: 15 m Distance	142-144																																																																							
				Illumination Limit: 8 m Distance	145-147																																																																							
				Reset LED Fade Off	148-150																																																																							
				Reset LED Fade On	151-153																																																																							
				Beam Mode: Limited Range	154-156																																																																							
				Beam Mode: Full Range	157-159																																																																							
				Zoom behavior: Off	160-162																																																																							
				Zoom behavior: Cobra 2	163-165																																																																							
Pan/Tilt Spd Fast	166-168																																																																											
Pan/Tilt Spd Medium	169-171																																																																											
Pan/Tilt Spd Slow	172-174																																																																											
unused	175-255																																																																											

Errors and omissions for all information given in this DMX chart are possible.
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