






















## DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (47 DMX CHANNELS) - V1

Mode/Channel	Function		Value	Default Value
Ex				
1	PAN Movement 8bit		0-255	128
2	Pan Fine 16bit: Fine control of Pan movement		0-255	0
3	TILT Movement 8bit		0-255	128
4	Tilt Fine 16bit: Fine control of Tilt movement		0-255	0
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	
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	
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	
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	
9	Dimmer Intensity		0-255	0
10	Dimmer Intensity Fine		0-255	0
11	CTO Colour: 0-white, 255-100% CTO		0-255	0
12	CTO Colour Fine		0-255	0
13	Reserved			0
14	Zoom: From small to big		0-255	19
15	Zoom Fine		0-255	83
16	Focus: From near to far		0-255	90
17	Focus Fine		0-255	192
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	
19	Auto Focus Fine		0-255	0


Mode/Channel	Function		Value	Default Value
20	Zoom Mode	Beam mode	0-84	0
		Spot mode	85-169	
		Special mode	170-255	
21	Colour Wheel	Open	0	0
		Multicolours 1, 2, 3 (0-100%)	1-63	
		Colour 1: Red	 64	
		Colour 2: Blue	 65	
		Colour 3: Orange	 66	
		Colour 4: Green	 67	
		Colour 5: Pink	 68	
		Colour 6: Yellow	 69	
		Colour 7: Velvet Green	 70	
		Colour 8: Amber	 71	
		Colour 9: Light Blue	 72	
		Colour 10: Follies Pink	 73	
		Colour 11: Slate Blue	 74	
		Colour 12: Dark Green	 75	
		Colour 13: Dark Amber	 76	
		Colour 14: Medium Blue	 77	
		Colour 15: Oklahoma Yellow	 78	
		Colour 16: Multicolours #1	 79	
		Colour 17: Multicolours #2	 80	
		Colour 18: Minus Green 1/4	 81	
		Colour 19: Minus Green 1/2	 82	
Multicolours 1 shake slow to fast	83-91			
Multicolours 2 shake slow to fast	92-100			
Multicolours 3 shake slow to fast	101-109			
unused	110-127			
Forward rainbwow effect from fast to slow	128-189			
No rotation	190-193			
Backwards rainbwow effect from slow to fast	194-255			
22	Colour Wheel Fine		0-255	0
23	Cyan Colour (0-white, 255-100% Cyan)		0-255	0
24	Cyan Colour Fine		0-255	0
25	Magenta Colour (0-white, 255-100% magenta)		0-255	0
26	Magenta Colour Fine		0-255	0
27	Yellow Colour (0-white, 255-100% Yellow)		0-255	0
28	Yellow Colour Fine		0-255	0
29	Rotating Gobo Wheel	Open	0-9	0
		Rot. gobo 1: Eccentric Dot	 10-13	
		Rot. gobo 2: Lines Mix	 14-17	









Mode/Channel	Function	Value	Default Value	
29	Rotating Gobo Wheel	Rot. gobo 3: Dot Square 4	18-21	0
		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 Light	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	
		30	Rotating Gobo Wheel Index, Rotation	
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	
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	
		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			

Mode/Channel	Function	Value	Default Value	
32	Static Gobo Wheel	Gobo 7: Dot Square 4	36	0
		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	
		Gobo 22: Iris 8	51	
		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	
		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	

Mode/Channel	Function	Value	Default Value	
32	Static Gobo Wheel	Gobo 48: Split Circle 6	78	0
		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 slow to fast	111			
Gobo 2 shake slow to fast	112			
Gobo 3 shake slow to fast	113			
Gobo 4 shake slow to fast	114			
Gobo 5 shake slow to fast	115			
Gobo 6 shake slow to fast	116			
Gobo 7 shake slow to fast	117			
Gobo 8 shake slow to fast	118			
Gobo 9 shake slow to fast	119			

Mode/Channel	Function	Value	Default Value	
32	Static Gobo Wheel	Gobo 10 shake slow to fast	120	0
		Gobo 11 shake slow to fast	121	
		Gobo 12 shake slow to fast	122	
		Gobo 13 shake slow to fast	123	
		Gobo 14 shake slow to fast	124	
		Gobo 15 shake slow to fast	125	
		Gobo 16 shake slow to fast	126	
		Gobo 17 shake slow to fast	127	
		Gobo 18 shake slow to fast	128	
		Gobo 19 shake slow to fast	129	
		Gobo 20 shake slow to fast	130	
		Gobo 21 shake slow to fast	131	
		Gobo 22 shake slow to fast	132	
		Gobo 23 shake slow to fast	133	
		Gobo 24 shake slow to fast	134	
		Gobo 25 shake slow to fast	135	
		Gobo 26 shake slow to fast	136	
		Gobo 27 shake slow to fast	137	
		Gobo 28 shake slow to fast	138	
		Gobo 29 shake slow to fast	139	
		Gobo 30 shake slow to fast	140	
		Gobo 31 shake slow to fast	141	
		Gobo 32 shake slow to fast	142	
		Gobo 33 shake slow to fast	143	
		Gobo 34 shake slow to fast	144	
		Gobo 35 shake slow to fast	145	
		Gobo 36 shake slow to fast	146	
		Gobo 37 shake slow to fast	147	
		Gobo 38 shake slow to fast	148	
		Gobo 39 shake slow to fast	149	
		Gobo 40 shake slow to fast	150	
		Gobo 41 shake slow to fast	151	
Gobo 42 shake slow to fast	152			
Gobo 43 shake slow to fast	153			
Gobo 44 shake slow to fast	154			
Gobo 45 shake slow to fast	155			
Gobo 46 shake slow to fast	156			
Gobo 47 shake slow to fast	157			
Gobo 48 shake slow to fast	158			
Gobo 49 shake slow to fast	159			
Gobo 50 shake slow to fast	160			
Gobo 51 shake slow to fast	161			

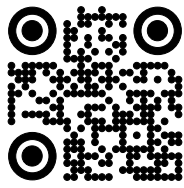
Mode/Channel	Function	Value	Default Value	
32	Gobo 52 shake slow to fast	162	0	
	Gobo 53 shake slow to fast	163		
	Gobo 54 shake slow to fast	164		
	Gobo 55 shake slow to fast	165		
	Gobo 56 shake slow to fast	166		
	Gobo 57 shake slow to fast	167		
	Gobo 58 shake slow to fast	168		
	Gobo 59 shake slow to fast	169		
	Gobo 60 shake slow to fast	170		
	Gobo 61 shake slow to fast	171		
	Gobo 62 shake slow to fast	172		
	Gobo 63 shake slow to fast	173		
	Gobo 64 shake slow to fast	174		
	Gobo 65 shake slow to fast	175		
	Gobo 66 shake slow to fast	176		
	Gobo 67 shake slow to fast	177		
	Gobo 68 shake slow to fast	178		
	Gobo 69 shake slow to fast	179		
	Gobo 70 shake slow to fast	180		
	Gobo 71 shake slow to fast	181		
	Gobo 72 shake slow to fast	182		
	Gobo 73 shake slow to fast	183		
	Gobo 74 shake slow to fast	184		
	Gobo 75 shake slow to fast	185		
	Gobo 76 shake slow to fast	186		
	Gobo 77 shake slow to fast	187		
	Gobo 78 shake slow to fast	188		
	Gobo 79 shake slow to fast	189		
	Clock-wise scroll from fast to slow	190-221		
	Reserved	222-223		
	Counter clock-wise scroll from slow to fast	224-255		
	33	Prism 1, Frost		Open
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	
34			Prism 1 Index, Rotation	Prism indexing
	Forwards prism rotation from fast to slow	128-189		
	No rotation	190-193		
	Backwards prism rotation from slow to fast	194-255		

Mode/Channel	Function	Value	Default Value	
35	Prism 1 Index, Rotation Fine	0-255	0	
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	
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	
39	Other Prism	Open	0-7	0
		Other prism 1: 5-facet circular 	8-131	
		Other prism 3: 5-facet linear 	132-255	
40	Other Prism Index, Rotation 1/3	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	
41	Other Prism Index, Rotation 1/3 Fine	0-255	0	
42	Other Prism	Open	0-7	0
		Other prism 2: 7-facet linear 	8-131	
		Other prism 4: 12-facet circular 	132-255	
43	Other Prism Index, Rotation 2/4	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	
44	Other Prism Index, Rotation 2/4 Fine	0-255	0	
45	Macro	unused	0-1	0
		Macro1	2-3	
		Macro2	4-5	
		...	...	
		Macro106	212-213	
		Reserved	214-255	
46	Unused		0	
47	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	

Mode/Channel	Function	Value	Default Value
47	Auto fan control mode	25-26	0
	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	
	Prism Mode Simple	70-74	
	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	

Mode/Channel	Function	Value	Default Value
47	Beam Mode: Full Range	157-159	0
	Defog Off	160-162	
	Defog Auto	163-165	
	Defog On	166-168	
	unused	169-171	
	unused	172-174	
	unused	175-177	
	unused	178-180	
	Pan/Tilt Spd Fast	181-183	
	Pan/Tilt Spd Medium	184-186	
	Pan/Tilt Spd Slow	187-189	
	unused	190-255	

*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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