

DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (43 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	Blanking zone commands	unused	0-4	0
		Store/overwrite blanking Zone TOP RIGHT	5-9	
		Store/overwrite blanking Zone BOTTOM RIGHT	10-14	
		Store/overwrite blanking Zone TOP LEFT	15-19	
		Store/overwrite blanking Zone BOTTOM LEFT	20-24	
		Recall blanking Zone TOP RIGHT	25-29	
		Recall blanking Zone BOTTOM RIGHT	30-34	
		Recall blanking Zone TOP LEFT	35-39	
		Recall blanking Zone BOTTOM LEFT	40-44	
		Delete blanking Zone TOP RIGHT	45-49	

Mode/ Channel	Function		Value	Default Value
13	Blanking zone commands	Delete blanking Zone BOTTOM RIGHT	50-54	0
		Delete blanking Zone TOP LEFT	55-59	
		Delete blanking Zone BOTTOM LEFT	60-64	
		Delete blanking Zone ALL POINT	65-69	
		Invert blanking Zone OFF	70-74	
		Invert blanking Zone ON	75-79	
		unused	80-99	
		Off	100-109	
		10m	110-119	
		15m	120-129	
		20m	130-139	
		25m	140-149	
14	Zoom: From small to big	20m	150-159	0
		30m	160-169	
15	Zoom Fine	35m	170-179	19
		40m	180-189	
16	Focus: From near to far	45m	190-199	83
		50m	200-255	
17	Focus Fine	Reserved	200-255	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: Continuous adjustment fine		0-255	0
20	Reserved			0
21	Colour Wheel 1	Open	0-3	0
		Colour 1: Red	 4-5	
		Colour 2: Blue	 6-7	
		Colour 3: Orange	 8-9	
		Colour 4: Green	 10-11	
		Colour 5: Pink	 12-13	
		Colour 6: Yellow	 14-15	
		Colour 7: Velvet Green	 16-17	
		Colour 8: Amber	 18-19	
		Colour 9: Light Blue	 20-21	
		Colour 10: Folies Pink	 22-223	
		Colour 11: Slate Blue	 24-25	

Mode/ Channel	Function		Value	Default Value
21	Colour Wheel 1	Colour 12: Lime	 26-27	0
		Colour 13: Dark Amber	 28-29	
		Colour 14: Medium Blue	 30-31	
		Colour 15: Oklahoma Yellow	 32-33	
		Colour 16: CTB	 34-35	
		Multicolors (0-100%)	 36-111	
		Multicolors shake slow to fast	112-127	
		Forwards rainbow effect from fast to slow	128-189	
		No rotation	190-193	
		Backwards rainbow effect from slow to fast	194-255	
22	Colour Wheel 1 Fine		0-255	0
23	Cyan Colour: Cyan (0-white, 255-100% Cyan)		0-255	0
24	Cyan Colour Fine		0-255	0
25	Magenta Colour: Magenta (0-white, 255-100% Magenta)		0-255	0
26	Magenta Colour Fine		0-255	0
27	Yellow Colour: Yellow (0-white, 255-100% Yellow)		0-255	0
28	Yellow Colour Fine		0-255	0
29	Rotating Gobo Wheel	Open (beam)	0-4	0
		Open (spot)	5-9	
		Rot. Gobo 1: Rectangle Line 5	 10-16	
		Rot. gobo 2: Star Bar 5	 17-23	
		Rot. gobo 3: Game Pad Stroke	 24-30	
		Rot. gobo 4: Daisy Stroke	 31-37	
		Rot. gobo 5: Nested Rings	 38-44	
		Rot. gobo 6: Bread Stix	 45-51	
		Rot. gobo 7: Zebra	 52-58	
		Rot. gobo 8: Starfield	 59-65	
		Rot. gobo 9: Circle of Squares	 66-72	
		Rot. gobo 10: Deep Forest	 73-79	
		Gobo 1 shake slow to fast	80-90	
		Gobo 2 shake slow to fast	91-101	
		Gobo 3 shake slow to fast	102-112	
		Gobo 4 shake slow to fast	113-123	
		Gobo 5 shake slow to fast	124-134	
		Gobo 6 shake slow to fast	135-145	
		Gobo 7 shake slow to fast	146-156	
		Gobo 8 shake slow to fast	157-167	
		Gobo 9 shake slow to fast	168-178	
		Gobo 10 shake slow to fast	179-189	
		Gobo wheel rotation forwards from fast to slow	190-221	
		No rotation	222-223	

Mode/ Channel	Function		Value	Default Value
30	Rotating Gobo Wheel Index, Rotation	Gobo wheel rotation f backwards from slow to fast	224-255	0
		Gobo indexing	0-127	
		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	 0-5	0
		Forwards rotation from fast to slow	 6-68	
		Backwards rotation from slow to fast	 69-131	
		Gobo 1: 80% Iris Beam	 132	
		Gobo 2: 60% Iris Beam	 133	
		Gobo 3: 40% Iris Beam	 134	
		Gobo 4: 20% Iris Beam	 135	
		Gobo 5: Dot Line 2	 136	
		Gobo 6: Dot Triangle 3	 137	
		Gobo 7: Dot Square 4	 138	
		Gobo 8: Dot Ring 5	 139	
		Gobo 9: Zig Zag Light	 140	
		Gobo 10: Waves Light	 141	
		Gobo 11: Iron Ball Light	 142	
		Gobo 12: Nested Star	 143	
		Gobo 13: Arrow Ring 3	 144	
		Gobo 14: Split Triangle 2	 145	
		Gobo 15: Helix 3	 146	
		Gobo 16: Compass 4	 147	
		Gobo 17: Nuclear	 148	
		Gobo 18: Half Beam Right	 149	
		Gobo 19: Half Beam Left	 150	
		Gobo 20: Four Lines H	 151	
		Gobo 21: Bold Line	 152	
		Gobo 22: Vertical Line	 153	
		Gobo 23: Split Cross	 154	
		Gobo 24: Ink Stain 2	 155	
		Gobo 25: Circular Saw 4	 156	
		Gobo 26: Starfield Light	 157	
		Gobo 27: Triangle Beam	 158	
		Gobo 28: Square Beam	 159	
		Gobo 29: Nested Cross	 160	
		Gobo 1 shake	161	
		Gobo 2 shake	162	
		Gobo 3 shake	163	

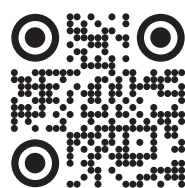
Mode/ Channel	Function		Value	Default Value
32	Static Gobo Wheel	Gobo 4 shake	164	0
		Gobo 5 shake	165	
		Gobo 6 shake	166	
		Gobo 7 shake	167	
		Gobo 8 shake	168	
		Gobo 9 shake	169	
		Gobo 10 shake	170	
		Gobo 11 shake	171	
		Gobo 12 shake	172	
		Gobo 13 shake	173	
		Gobo 14 shake	174	
		Gobo 15 shake	175	
		Gobo 16 shake	176	
		Gobo 17 shake	177	
		Gobo 18 shake	178	
		Gobo 19 shake	179	
		Gobo 20 shake	180	
		Gobo 21 shake	181	
		Gobo 22 shake	182	
		Gobo 23 shake	183	
		Gobo 24 shake	184	
		Gobo 25 shake	185	
		Gobo 26 shake	186	
		Gobo 27 shake	187	
		Gobo 28 shake	188	
		Gobo 29 shake	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 Wheel 1	Open	0-51	0
		Frost 1: Light	52-102	
		Prism 1: 8-facet circular 	103-153	
		Prism 2: Beam Shaper 	154-204	
		Prism 3: 6-facet linear 	205-255	
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
36	Prism 2, Frost	Open	0-51	0
		Frost 1: Heavy	52-102	

Mode/ Channel	Function		Value	Default Value
36	Prism 2, Frost	Prism 1: 8-facet circular 	103-153	0
		Prism 2: 32-facet circular 	154-204	
		Prism 3: 6-facet linear 	205-255	
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	Macro	unused	0-1	0
		Macro1	2-3	
		Macro2	4-5	
		...	...	
		...	...	
		Reserved	184-255	
40	Blanking Zone Number (different zone)	unused	0-9	0
		Blanking Zone #1	10-19	
		Blanking Zone #2	20-29	
		Blanking Zone #3	30-39	
		Blanking Zone #4	40-49	
		unused	50-255	
41	Flat Field	Auto	0	0
		Force Off	1-127	
		Force On	128-255	
42	Reserved			0
43	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
43	unused	70-74	0
	unused	75-79	
	All motor reset	80-84	
	Scan motor reset	85-87	
	Colors 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 Fast	106-108	
	CMY speed Medium	109-111	
	CMY speed Slow	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	
	Pan Degree 360SC	133-135	
	Tilt Degree 360SC	136-138	
	Illumination Limit: 20m Distance	139-141	
	Illumination Limit: 15m Distance	142-144	
	Illumination Limit: 10m Distance	145-147	
	Reset Dimmer Fade Off	148-150	
	Reset Dimmer Fade On	151-153	
	unused	154-156	
	unused	157-159	
	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	
	Pan/Tilt Spd FS Mode	190-192	
	Pan/Tilt Spd Tracking 360	193-195	

Mode/ Channel	Function	Value	Default Value
43	unused	196-198	0
	unused	199-201	
	CMY Path Shortcut	202-204	
	CMY Path Spinout	205-207	
	unused	208-244	
	Enter Blanking Zone Mode	245	
	unused	246-255	

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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