DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (47 DMX CHANNELS) - V109

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	246-247	
		Execute blanking zone command (10 sec before action)	248	
		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	

Mode/ Channel	Function		Value	Default Value
13	**Blanking Zone Commands**	Recall blanking Zone BOTTOM LEFT	40-44	0
		Delete blanking Zone TOP RIGHT	45-49	
		Delete blanking Zone BOTTOM RIGHT	50-54	
		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	
		10 m	110-119	
		15 m	120-129	
		20 m	130-139	
		25 m	140-149	
		30 m	150-159	
		35 m	160-169	
		40 m	170-179	
		45 m	180-189	
		50 m	190-199	
		55 m	200-209	
		60 m	210-219	
		Reserved	220-255	
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
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	

Mode/ Channel	Function		Value	Default Value
21	**Colour Wheel**	Colour 6: Yellow	69	0
		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 rainwbow effect from fast to slow	128-189	
		No rotation	190-193	
		Backwards rainwbow 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	
		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 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**	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
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	
		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	

Mode/ Channel	Function		Value	Default Value
32	Static Gobo Wheel	Gobo 18: Waves Light	47	0
		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	
		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	

Mode/ Channel	Function		Value	Default Value
32	Static Gobo Wheel	Gobo 59: Five Spokes	89	0
		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	
		Gobo 10 shake slow to fast	120	
		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	

Mode/ Channel	Function		Value	Default Value
32	Static Gobo Wheel	Gobo 21 shake slow to fast	131	0
		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	
		Gobo 52 shake slow to fast	162	
		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	
32	Static Gobo Wheel	Gobo 63 shake slow to fast	173	0
		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	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	
		Light Frost	213-255	
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	0-40	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	
		Heavy 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	

Mode/ Channel	Function		Value	Default Value
37	**Prism 2 Index, Rotation**	Backwards prism rotation from slow to fast	194-255	0
38	**Prism 2 Index, Rotation Fine**		0-255	0
39	**Prism 3**	Open	0-7	0
		Multiplier prism 1: 5-facet circular 	8-131	
		Multiplier prism 3: 5-facet linear 	132-255	
40	**Prism 3 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	**Prism 3 Index, Rotation 1/3 Fine**		0-255	0
42	**Prism 4**	Open	0-7	0
		Multiplier prism 2: 7-facet linear 	8-131	
		Multiplier prism 4: 12-facet circular 	132-255	
43	**Prism 4 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	**Prism 4 Index, Rotation 2/4 Fine**		0-255	0
45	**Macro**	unused	0-1	0
		Macro1	2-3	
		Macro2	4-5	
		...	...	
		Macro106	156-157	
		Reserved	158-255	
46	**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	
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	
		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	
		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	
		Pan Degree 360SC	133-135	
		Tilt Degree 360SC	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	
		Defog Off	160-162	
		Defog Auto	163-165	
		Defog On	166-168	
		unused	169-180	

Mode/ Channel	Function		Value	Default Value
47	Control, Reset, Internal Programs	Pan/Tilt Spd Fast	181-183	0
		Pan/Tilt Spd Medium	184-186	
		Pan/Tilt Spd Slow	187-189	
		Pan/Tilt Spd FS Mode	190-192	
		Pan/Tilt Spd Spd Tracking 360	193-195	
		Encoder Select Photoelectric	196-198	
		Encoder Select Magnet	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.

SCAN FOR MORE

www.ayrton.eu

AYRTON

Digital Lighting