




## DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (60 DMX CHANNELS) - V1

Mode/Channel		Function	Value	Default Value	
Std	Ex				
1	1	PAN Movement 8bit	0-255	128	
2	2	Pan Fine 16bit	0-255	0	
3	3	TILT Movement 8bit	0-255	128	
4	4	Tilt Fine 16bit	0-255	0	
	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	
5	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	
6	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	
7	8	Shutter, Strobe	Shutter closed	0-10	15
			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	
8	9	Dimmer Intensity: 0 to 100%	0-255	0	
9	10	Dimmer Intensity Fine	0-255	0	
10	11	Zoom From Small To Big: From 4° to 57°	0-255	128	
11	12	Zoom Fine	0-255	0	
12	13	Focus: From near to far	0-255	128	
13	14	Focus Fine	0-255	0	
	15	Auto Focus	Auto Focus Off	0-50	0
			5m	51-100	
			7.5 m	101-150	
			10 m	151-200	
			15 m	201-255	
16	Auto Focus Fine	0-255	0		
14	17	Colour Wheel	Open / white	0-3	0
			Colour 1: CTB 1/4	4-7	
			Colour 2: Magenta	8-11	

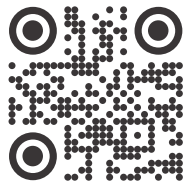
Mode/Channel		Function	Value	Default Value	
14	17	Colour Wheel	Colour 3: Congo Blue	12-15	0
			Colour 4: Green	16-19	
			Colour 5: Orange	20-23	
			Colour 6: Blue	24-27	
			Colour 7: Red	28-31	
			Colour indexing	32-127	
			Forwards rainbow effect from fast to slow	128-189	
			No rotation	190-193	
		Backwards rainbow effect from slow to fast	194-255		
15	18	Colour Wheel Fine	0-255	0	
16	19	Cyan Colour (0-white, 255-100% Cyan)	0-255	0	
		Cyan Colour Fine	0-255	0	
17	21	Magenta Colour (0-white, 255-100% magenta)	0-255	0	
		Magenta Colour Fine	0-255	0	
18	23	Yellow Colour (0-white, 255-100% Yellow)	0-255	0	
		Yellow Colour Fine	0-255	0	
19	25	CTO Colour (0-white, 255-100% CTO)	0-255	0	
		CTO Colour Fine	0-255	0	
20	27	CTP Colour (0-white, 255-100% CTP)	0-255	0	
		CTP Colour Fine	0-255	0	
28	CTP Colour Fine	0-255	0		
29	Reserved				
30	Reserved				
31	Reserved				
21	32	Rotating Gobo Wheel	Open	0-9	0
			Rot. gobo 1: Dot Line 4	10-19	
			Rot. gobo 2: Dot Triangle 3	20-29	
			Rot. gobo 3: Square Beam 4	30-39	
			Rot. gobo 4: Five Spokes	40-49	
			Rot. gobo 5: Breaking Glass	50-59	
			Rot. gobo 6: Waves	60-69	
			Rot. gobo 7: Scrim Filter	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 backwards from slow to fast	224-255				

Mode/Channel	Function		Value	Default Value	
22	33	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		
23	34	Rotating Gobo Wheel Index, Rotation Fine		0-255	0
24	35	Animation Wheel	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	
37	Iris	Max. diameter to Min.diameter		0-191	0
		Pulse closing fast to slow		192-223	
		Pulse opening slow to fast		224-255	
26	38	Beam Shaper	Open	0-127	0
			Beam Shaper	 128-255	
27	39	Beam Shaper Index, Rotation	Beam Shaper 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	
40	BeamShaper Index, Rotation Fine		0-255	0	
28	41	Frost 1: 0-100%		0-255	0
29	42	Blade 1A: Open to Close		0-255	0
43	Blade 1A Fine: Open to Close Fine		0-255	0	
30	44	Blade 1B: Open to Close		0-255	0
45	Blade 1B Fine: Open to Close Fine		0-255	0	
31	46	Blade 2A: Open to Close		0-255	0
47	Blade 2A Fine: Open to Close Fine		0-255	0	
32	48	Blade 2B: Open to Close		0-255	0
49	Blade 2B Fine: Open to Close Fine		0-255	0	
33	50	Blade 3A: Open to Close		0-255	0
51	Blade 3A Fine: Open to Close Fine		0-255	0	
34	52	Blade 3B: Open to Close		0-255	0
53	Blade 3B Fine: Open to Close Fine		0-255	0	
35	54	Blade 4A: Open to Close		0-255	0
55	Blade 4A Fine: Open to Close Fine		0-255	0	
36	56	Blade 4B: Open to Close		0-255	0
57	Blade 4B Fine: Open to Close Fine		0-255	0	
37	58	All Blade Rotation: +/- 90°		0-255	128
59	All Blade Rotation Fine		0-255	0	
38	60	Control, Reset, Internal Programs	unused	0-4	0
			Display Off	5-9	
			Display On	10-14	

Mode/Channel	Function		Value	Default Value	
38	60	Control, Reset, Internal Programs	Display Invert Off	15-19	0
			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	
			Frost Progressive On	103-105	
			CMY speed Fast	106-108	
			CMY speed Medium	109-111	
			CMY speed Slow	112-114	
unused	115-117				
unused	118-120				
Sun Protection Off	121-123				
Sun Protection On	124-126				
Pan Reverse Off	127-129				
Pan Reverse On	130-132				
Tilt Reverse Off	133-135				
Tilt Reverse On	136-138				
Pan Degree 540°	139-141				
Pan Degree 630°	142-144				
Tilt Degree 540°	145-147				
Tilt Degree 270°	148-150				

Mode/ Channel	Function		Value	Default Value	
38	60	Control, Reset, Internal Programs	Feedback Off	151-153	0
			Feedback On	154-156	
			Init PAN Off	157-159	
			Init PAN On	160-162	
			Init TILT Off	163-165	
			Init TILT On	166-168	
			Prerig INIT Off	169-171	
			Prerig INIT On	172-174	
			Reset Mode (Fast)	175-177	
			Reset Mode (All Rot Gobos)	178-180	
			Pan/Tilt Spd Fast	181-183	
			Pan/Tilt Spd Medium	184-186	
			Pan/Tilt Spd Slow	187-189	
			Pan/Tilt F/S Mode	190	
			Pan/Tilt Tracking 360	191	
			unused	192	
			Zoom/Focus Spd Fast	193-195	
			Zoom/Focus Spd Medium	196-198	
			Zoom/Focus Spd Slow	199-201	
			Reset LED Fade Off	202-204	
			Reset LED Fade On	205-207	
			Defog Off	208-210	
			Defog Auto	211-213	
			Defog On	214-216	
			unused	217-255	

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](http://www.ayrton.eu)



**AYRTON**  
Digital Lighting