

9.DMX PROTOCOL

Mode/Channel			Value	Function
38	22	16		
1	1	1		Pan
			0..255	PAN Movement
2	2	2		Pan -fine
			0..255	Fine control of Pan movement
3	3	3		Tilt
			0..255	Tilt Movement
4	4	4		Tile -fine
			0..255	Fine control of Tilt movement
5	5	5		Speed pan/tile
			0..225	max to min speed
			226..235	blackout by movement
			236..255	no function
6	6	6		Dimmer
			0..255	Dimmer 0%...100%
7	7	7		Shutter
			0..31	Shutter closed
			32..63	shutter open
			64..95	Strobe effect slow to fast
			96..127	shutter open
			128..159	Pulse-effect in sequences slow to fast
			160..191	shutter open
			192..223	Random strobe effect slow to fast
			224..255	shutter open
8	8	8		Red
			0..255	0-100% Red dimmer from dark to bright
9	9	9		Green
			0..255	0-100% Green dimmer from dark to bright
10	10	10		Blue
			0..255	0-100% Blue dimmer from dark to bright

11	11	11		White
			0..255	0-100% White dimmer from dark to bright
12	12	12		Zoom
			0..255	In(near)to out(far)
13	13	13		Virtual color
			0..0	No Function
			1..13	Red
			14..27	Green
			28..41	Blue
			42..55	White
			56..69	Red+White
			70..83	Green+White
			84..97	Blue+White
			98..111	Green+Blue
			112..125	Red+Blue
			126..139	Red+Green
			140..153	Green+Blue+White
			154..167	Red+Blue+White
			168..181	Red+Green+White
			182..195	Red+Blue+Green+White
			196..202	2700K
			203..209	3200K
			210..216	3500K
			217..223	5000K
			224..230	5500K
			231..237	6000K
			238..244	6500K
			245..251	7000K
			252..255	8000K
14	14	14		Color Temp
			0..15	No Function
			16..45	Below3200K
			46..75	3200K - 3500K
			76..105	3500K - 5000K
			106..135	5000K - 5500K
			136..165	5500K - 6000K
			166..195	6000K - 6500K
			196..225	6500K - 7000K
			226..255	7000K - 8000K

15	15	15		Visual Tungsten Lamp
			0..15	No Function
			16..255	Tungsten lamp effect is gradually enhanced
16	16			Foreground color for patterns
		0..0	No Function	
		1..13	Red	
		14..27	Green	
		28..41	Blue	
		42..55	White	
		56..69	Red+White	
		70..83	Green+White	
		84..97	Blue+White	
		98..111	Green+Blue	
		112..125	Red+Blue	
		126..139	Red+Green	
		140..153	Green+Blue+White	
		154..167	Red+Blue+White	
		168..181	Red+Green+White	
		182..195	Red+Blue+Green+White	
		196..202	2700K	
		203..209	3200K	
		210..216	3500K	
		217..223	5000K	
		224..230	5500K	
		231..237	6000K	
		238..244	6500K	
245..251	7000K			
252..255	8000K			
17	17			Foreground dimmer
			Choose Foreground color for Dynamic/Static Scene, no function for Multicolor Scene	
		000..255	Foreground dimmer 0 – 100%.	

18	18		Background color for patterns
		0..0	No Function
		1..13	Red
		14..27	Green
		28..41	Blue
		42..55	White
		56..69	Red+White
		70..83	Green+White
		84..97	Blue+White
		98..111	Green+Blue
		112..125	Red+Blue
		126..139	Red+Green
		140..153	Green+Blue+White
		154..167	Red+Blue+White
		168..181	Red+Green+White
		182..195	Red+Blue+Green+White
		196..202	2700K
		203..209	3200K
		210..216	3500K
		217..223	5000K
		224..230	5500K
		231..237	6000K
		238..244	6500K
245..251	7000K		
252..255	8000K		
19	19		Background dimmer
			Choose Background color for Dynamic/Static Scene,no function for Multicolor Scene
		000..255	Background dimmer 0 – 100%,
20	20		Patterns
		000..015	No function
		016..031	Static patterns
		032..045	Dynamic Scene1
		046..059	Dynamic Scene2
		060..073	Dynamic Scene3
		074..087	Dynamic Scene4
		088..101	Dynamic Scene5
		102..115	Dynamic Scene6
		116..129	Dynamic Scene7
		130..143	Dynamic Scene8
		144..157	Multicolor Dynamic Scene1
		158..171	Multicolor Dynamic Scene2
		172..185	Multicolor Dynamic Scene3
		186..199	Multicolor Dynamic Scene4
		200..213	Multicolor Dynamic Scene5
		214..227	Multicolor Dynamic Scene6
228..241	Multicolor Dynamic Scene7		
242..255	Multicolor Dynamic Scene8		

21	21		Static patterns or patterns speed
		Static Patterns (If Patterns channel is in the interval 016 – 031)	
		000..015	static scene1
		016..031	static scene2
		032..047	static scene3
		048..063	static scene4
		064..079	static scene5
		080..095	static scene6
		096..111	static scene7
		112..127	static scene8
		128..143	static scene9
		144..159	static scene10
		160..175	static scene11
		176..191	static scene12
		192..207	static scene13
		208..223	static scene14
		224..239	static scene15
		240..255	static scene16
		Dynamic Patterns (If Patterns channel is in the interval 032 – 255)	
		000..023	No function
		024..137	Forward speed from zero speed to fast speed
		138..141	Stop movement
		142..255	Reverse speed from zero speed to fast speed

22				Red in Pixel 1
			0..255	Red in pixel 1 saturation control (0-100%)
23				Green in Pixel 1
			0..255	Green in pixel 1 saturation control (0-100%)
24				Blue in Pixel 1
			0..255	Blue in pixel 1 saturation control(0-100%)
25				White in pixel 1
			0..255	White in pixel 1 saturation control(0-100%)
26				Red in pixel 2
			0..255	Red in pixel 2 saturation control(0-100%)
27				Green in pixel 2
			0..255	Green in pixel 2 saturation control(0-100%)
28				Blue in pixel 2
			0..255	Blue in pixel 2 saturation control(0-100%)
29				White in pixel 2
			0..255	White in pixel 2 saturation control(0-100%)
30				Red in Pixel 3
			0..255	Red in pixel 3 saturation control (0-100%)
31				Green in pixel 3
			0..255	Green in pixel 3 saturation control(0-100%
32				Blue in pixel 3
			0..255	Blue in pixel 3 saturation control(0-100%)
33				White in pixel 3
			0..255	White in pixel 3 saturation control(0-100%)
34				Red in Pixel 4
			0..255	Red in pixel 4 saturation control (0-100%)

35				Green in pixel 4
			0..255	Green in pixel 4 saturation control(0-100%)
36				Blue in pixel 4
			0..255	Blue in pixel 4 saturation control(0-100%)
37				White in pixel 4
			0..255	White in pixel 4 saturation control(0-100%)
38	22	16		Special function
			0..19	No function
			20..29	No function
			30..39	No function
			40..79	No function
			80..89	All Motor reset
			90..94	SCAN Motor Reset
			95..99	ZOOM Motor Reset
			100..119	Internal program 1
			120..139	Internal program 2
			140..159	Internal program 3
			160..179	Internal program 4
			180..199	Internal program 5
			200..219	Internal program 6
			220..239	Internal program 7
240..255	Internal Sound program 1			