

**4 DMX Channel Selection (DMX Protocol)**

Channel	Function	Time and Value	DMX	HEX	%
<b>1) PAN-coarse</b>	0.. 530°	min. 2.65 s	0..255	00..FF	0..100
<b>2) PAN-fine</b>	Low- Pos ... High- Pos + 2.1° (16 Bit)		0..255	00..FF	0..100
<b>3) Tilt-coarse</b>	0 .. 285°	min. 1.8 s	0..255	00..FF	0..100
<b>4) Tilt-fine</b>	Low- Pos ... High- Pos + 1.1° (16 Bit)		0..255	00..FF	0..100
<b>5) Color*</b>	open (fast)	Chaser from color to color max. 140 BPM → 0,43 s	0..3	00..03	0,2
	color 1, Brilliant Blue (fast)		4..7	04..07	1,8
	color 2, Blue (fast)		8..11	08..0B	3,3
	color 3, Blue Purple (fast)		12..15	0C..0F	4,9
	color 4, Pink (fast)		16..19	10..13	6,5
	color 5, Orange (fast)		20..23	14..17	8,0
	color 6, Italian Blue (fast)		24..27	18..1B	9,6
	color 7, Turquoise (fast)		28..31	1C..1F	11,2
	color 8, Jade (fast)		32..35	20..23	12,7
	color 9, CTB 001 (fast)		36..39	24..27	14,3
	color 10, CTO 02 (fast)		40..43	28..2B	15,9
	color 11, Red (fast)		44..47	2C..2F	17,5
	open (fast)	48..63	30..3F	19,0	
	open (slow)	Chaser from color to color max. 70 BPM → 0,86 s	64..67	40..43	25,3
	color 1, Brilliant Blue (slow)		68..71	44..47	26,9
	color 2, Blue (slow)		72..75	48..4B	28,4
	color 3, Blue Purple (slow)		76..79	4C..4F	30,0
	color 4, Pink (slow)		80..83	50..53	31,6
	color 5, Orange (slow)		84..87	54..57	33,1
	color 6, Italian Blue (slow)		88..91	58..5B	34,7
	color 7, Turquoise (slow)		92..95	5C..5F	36,3
	color 8, Jade (slow)		96..99	60..63	37,8
	color 9, CTB 001 (slow)		100..103	64..67	39,4
	color 10, CTO 02 (slow)		104..107	68..6B	41,0
color 11, Red (slow)	108..111		6C..6F	42,5	
open (slow)	112..127	70..7F	44,1		
color rotation, slow-fast, CW	min. 1.4 turns/h	128..191	80..BF	50..75	
color rotation, fast-slow, CCW	max. 2.9 turns/sec.	192..253	C0..FD	76..98	
Audio color chaser slow	each 4 <sup>th</sup> sound impulse → new color	254	FE	99	
Audio color chaser fast	each sound impulse → new color	255	FF	100	
<b>6) Cyan</b>	Cyan color intensity 0% - 100%		0..255	00..FF	0..100
<b>7) Magenta</b>	Magenta color intensity 0% - 100%		0..255	00..FF	0..100
<b>8) Yellow</b>	Yellow color intensity 0% - 100%		0..255	00..FF	0..100
<b>9) Shutter</b>	Shutter closed		0..15	00..0F	0..6
	Random Strobe (different pattern)		16..31	10..1F	7..11,9
	Strobe Pulse effect , slow - fast	min. frequency 0,7 Hz	32..47	20..2F	12..12,9
	Strobe effect , slow - fast	max. frequency 10 Hz	48..239	30..EF	13..93

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	Shutter open		240..25 5	F0..FF	94..100	
	<b>Lamp ON (ignition)</b>		254..25 5	FE..FF	99..100	
<b>10) Dimmer</b>	Dimmer closed (0%)		0..3	0..3	0..1	
	Dimmer 1%...99%	movement time 0,3 Sec.	4..251	4..FB	2..98	
	Dimmer open (100%)		252..25 5	FC..FF	99..100	
<b>11) Beam shape</b>	Open		0..15	0..0F	0..5	
	Shaper		16..239	10..EF	6..94	
	Frost		240..25 5	F0..FF	95..100	
<b>12) Special</b>	No function		0..15	00..0F	0..6	
	Audio CMY chaser slow		16..23	10..17	7..9	
	Audio CMY chaser fast		24..31	18..1F	10..12	
	Rotating color chaser		32..63	20..3F	13..24	
	Color chaser C / C+1 slow – fast		64..79	40..4F	25..31	
	Color chaser C / C+2 slow – fast		80..95	50..5F	32..37	
	PAN/Tilt chaser slow		96..111	60..6F	38..43	
	PAN/Tilt chaser fast		112..12 7	70..7F	44..50	
	<b>Lamp OFF (only if shutter is closed)!</b>		230..24 9	E6..F9	92..97	
	<b>Reset</b>		250..25 5	FA..FF	98..100	
<b>13) Movement</b>	No movement		0	00	0	
	<b>Movement</b>	<b>Size</b>	<b>Phase</b>			
	PAN	1	0°	01..01	01..01	0,5
		1	90°	02..03	02..03	1,0
		1	180°	04..05	04..05	1,7
		1	270°	06..07	06..07	2,5
	PAN	2	0°	08..09	08..09	3,3
		2	90°	10..11	0A..0B	4,1
		2	180°	12..13	0C..0D	4,9
		2	270°	14..15	0E..0F	5,7
	PAN	3	0°	16..17	11..11	6,5
		3	90°	18..19	12..13	7,3
		3	180°	20..21	14..15	8,0
		3	270°	22..23	16..17	8,8
	PAN	4	0°	24..25	18..19	9,6
		4	90°	26..27	1A..1B	10,4
		4	180°	28..29	1C..1D	11,2
		4	270°	30..31	1E..1F	12
	TILT	size / phase see also PAN		32..63	20..3F	13..25
	PAN / TILT	size / phase see also PAN		64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see also PAN		96..127	60..7F	38..50
Circle	size / phase see also PAN		128..15 9	80..9F	51..62	
Circle (inverse)	size / phase see also PAN		160..19 1	A0..BF	63..75	
lying eight	size / phase see also PAN		192..22 3	C0..DF	76..87	

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	random movement	size see also PAN	224..25 5	E0..FF	88..100
<b>14) Speed Pan/Tilt</b>	Pan/Tilt relative movement		0..15	00..0F	0..6
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).	Pan Min. 530° = 200 s Pan Max. 530° = 2.65 s Tilt Min. 285° = 110 s Tilt Max. 285° = 1.8 s	16..255	10..FF	7..100

<b>Lamp ON</b>	Shutter open		254..25 5	FE..FF	99..100
<b>Lamp OFF</b>	Channel 12 ( min. 3 sec. ) (only if shutter is closed, channel 9 = 0 ..15)		230..24 9	E6..F9	92..97

\* Be sure the “*FCOL*” function is set to ‘*ON*’ to control the color wheel continuously. This function will allow split colors.