

DMX Channel Selection (DMX Protocol)

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 530°	min. 2.65 s	0..255	00..FF	0..100
2) PAN-fine	Low- Pos ... High- Pos + 2.1° (16 Bit)		0..255	00..FF	0..100
3) Tilt-coarse	0 .. 285°	min. 1.8 s	0..255	00..FF	0..100
4) Tilt-fine	Low- Pos ... High- Pos + 1.1° (16 Bit)		0..255	00..FF	0..100
5) Color*	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 th sound impulse → new color	254	FE	99	
Audio color chaser fast	each sound impulse → new color	255	FF	100	
6) Cyan	Cyan color intensity 0% - 100%		0..255	00..FF	0..100
7) Magenta	Magenta color intensity 0% - 100%		0..255	00..FF	0..100
8) Yellow	Yellow color intensity 0% - 100%		0..255	00..FF	0..100
9) Shutter	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
	Shutter open		240..255	F0..FF	94..100
	Lamp ON (ignition)		254..255	FE..FF	99..100
10) Dimmer	Dimmer closed (0%)		0..3	0..3	0..1
	Dimmer 1%...99%	movement time 0,3 Sek.	4..251	4..FB	2..98
	Dimmer open (100%)		252..255	FC..FF	99..100
11) Beam shape	Open		0..15	0..0F	0..5
	Shaper		16..239	10..EF	6..94
	Frost		240..255	F0..FF	95..100
	No function		0..15	00..0F	0..6

Channel	Function	Time and Value	DMX	HEX	%	
	No function		0..15	00..0F	0..6	
12) Special	Audio CMY chaser slow		26..31	10..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..127	70..7F	44..50	
	Lamp OFF (only if shutter is closed)!		230..249	E6..F9	92..97	
	Reset		250..255	FA..FF	98..100	
13) Movement	No movement		0	00	0	
	Movement	Size	Phase			
	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..159	80..9F	51..62	
Circle (inverse)	size / phase see also PAN		160..191	A0..BF	63..75	
lying eight	size / phase see also PAN		192..223	C0..DF	76..87	
random movement	size see also PAN		224..255	E0..FF	88..100	
	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	
Lamp ON	Shutter open		254..255	FE..FF	99..100	
Lamp OFF	Channel 12 (min. 3 sec.) (only if shutter is closed, channel 9 = 0 ..15)		230..249	E6..F9	92..97	