

Elation Power Spot 700

DMX Channels

DMX channel selection (DMX protocol. software version 1.28)

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	High- 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	High- Pos ... High- Pos + 1,1° (16 Bit)		0..255	00..FF	0..100
5) Color 1	open (fast)	Chaser from color to color max. 140 BPM => 0,43 s	0..1	00..01	0,2
	open / color 1 (fast)		2..3	02..03	1,0
	color 1, red (fast)		4..5	04..05	1,8
	color 1 / color 2 (fast)		6..7	06..07	2,5
	color 2, magenta (fast)		8..9	08..09	3,3
	color 2 / color 3 (fast)		10..11	0A..0B	4,1
	color 3, purple (fast)		12..13	0C..0D	4,9
	color 3 / color 4 (fast)		14..15	0E..0F	5,7
	color 4, blue (fast)		16..17	10..11	6,5
	color 4 / color 5 (fast)		18..19	12..13	7,3
	color 5, green (fast)		20..21	14..15	8,0
	color 5 / color 6 (fast)		22..23	16..17	8,8
	color 6, yellow (fast)		24..25	18..19	9,6
	color 6 / color 7 (fast)		26..27	1A..1B	10,4
	color 7, orange (fast)		28..29	1C..1D	11,2
	color 7 / color 8 (fast)		30..31	1E..1F	12,0
	color 8, dark blue (fast)		32..33	20..21	12,7
	color 8 / color 9 (fast)		34..35	22..23	13,5
	open (fast)		36..63	24..3F	15..25
	open (slow)		Chaser from color to color max. 70 BPM => 0,86 s	64..65	40..41
open / color 1 (slow)	66..67	42..43		26,1	
color 1, red (slow)	68..69	44..45		26,9	
color 1 / color 2 (slow)	70..71	46..47		27,6	
color 2, magenta (slow)	72..73	48..49		28,4	
color 2 / color 3 (slow)	74..75	4A..4B		29,2	
color 3, purple (slow)	76..77	4C..4D		30,0	
color 3 / color 4 (slow)	78..79	4E..4F		30,8	
color 4, blue (slow)	80..81	50..51		31,6	
color 4 / color 5 (slow)	82..83	52..53		32,4	
color 5, green (slow)	84..85	54..55	33,1		
color 5 / color 6 (slow)	86..87	56..57	33,9		

	color 6, yellow (slow)		88..89	58..59	34,7
	color 6 / color 7 (slow)		90..91	5A..5B	35,5
	color 7, orange (slow)		92..93	5C..5D	36,3
	color 7 / color 8 (slow)		94..95	5E..5F	37,1
	color 8, dark blue (slow)		96..97	60..61	37,8
	color 8 / color 9 (slow)		98..99	62..63	38,6
	open (slow)		100..127	64..7F	40..50
	color rotation STOP		128..129	80..81	50,1
	color rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..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 Æ new color	255	FF	100

Channel	Function	Time and Value	DMX	HEX	%
6) Color 2	open (fast)	Chaser from color to color max. 140 BPM => 0,43 s	0..1	00..01	0,2
	open / color 1 (fast)		2..3	02..03	1,0
	color 1, green (fast)		4..5	04..05	1,8
	color 1 / color 2 (fast)		6..7	06..07	2,5
	color 2, brilliant blue (fast)		8..9	08..09	3,3
	color 2 / color 3 (fast)		10..11	0A..0B	4,1
	color 3, pink (fast)		12..13	0C..0D	4,9
	color 3 / color 4 (fast)		14..15	0E..0F	5,7
	color 4, red (fast)		16..17	10..11	6,5
	color 4 / color 5 (fast)		18..19	12..13	7,3
	color 5, yellow (fast)		20..21	14..15	8,0
	color 5 / color 6 (fast)		22..23	16..17	8,8
	color 6, minus green (fast)		24..25	18..19	9,6
	color 6 / color 7 (fast)		26..27	1A..1B	10,4
	color 7, CTO (fast)		28..29	1C..1D	11,2
	color 7 / color 8 (fast)		30..31	1E..1F	12,0
	color 8, CTC (fast)		32..33	20..21	12,7
	color 8 / color 9 (fast)		34..35	22..23	13,5
	open (fast)		36..63	24..3F	15..25
	open (slow)	Chaser from color to color max. 70 BPM => 0,86 s	64..65	40..41	25,3
color 1, Brilliant Blue (slow)	66..67		42..43	26,1	
color 1 / color 2 (slow)	68..69		44..45	26,9	
color 2, green (slow)	70..71		46..47	27,6	
color 2 / color 3 (slow)		72..73	48..49	28,4	
color 3, pink (slow)		74..75	4A..4B	29,2	

	color 3 / color 4 (slow)		76..77	4C..4D	30,0
	color 4, red (slow)		78..79	4E..4F	30,8
	color 4 / color 5 (slow)		80..81	50..51	31,6
	color 5, yellow (slow)		82..83	52..53	32,4
	color 5 / color 6 (slow)		84..85	54..55	33,1
	color 6, minus green (slow)		86..87	56..57	33,9
	color 6 / color 7 (slow)		88..89	58..59	34,7
	color 7, CTO (slow)		90..91	5A..5B	35,5
	color 7 / color 8 (slow)		92..93	5C..5D	36,3
	color 8, CTC (slow)		94..95	5E..5F	37,1
	color 8 / color 9 (slow)		96..97	60..61	37,8
	color 1, Brilliant Blue (slow)		98..99	62..63	38,6
	open (slow)		100..127	64..7F	40..50
	color rotation STOP		128..129	80..81	50,1
	color rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..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 Æ new color	255	FF	100
7) Gobo 1	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..7	0..7	0..2,9
(indexed)	Gobo 2 (fast)		8..15	8..F	3..5,9
	Gobo 3 (fast)		16..23	10..17	6..8,9
	Gobo 4 (fast)		24..31	18..1F	9..11,9
	Gobo 5 (fast)		32..39	20..27	12..14,9
	Gobo 6 (fast)		40..47	28..2F	15..17,9
	Gobo 7 (fast)		48..55	30..37	18..20,9
	Gobo 8 (fast)		56..63	38..3F	21..23

Channel	Function	Time and Value	DMX	HEX	%
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	64..71	40..47	24..26,9
	Gobo 2 (slow)		72..79	48..4F	27..29,9
	Gobo 3 (slow)		80..87	50..57	30..33,9
	Gobo 4 (slow)		88..95	58..5F	34..36,9
	Gobo 5 (slow)		96..103	60..67	37..39,9
	Gobo 6 (slow)		104..111	68..6F	40..42,9
	Gobo 7 (slow)		112..119	70..77	43..45,9
	Gobo 8 (slow)		120..127	78..7F	46..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4 th sound impulse ↻ new gobo	254	FE	99

	Audio gobo chase, fast	each sound impulse Æ new gobo	255	FF	100
8) Gobo 1	Gobo position 0 ... 540°		0..127	00..7F	0..49
Posi./Rot	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192..253	C0..FD	76..100
	Audio gobo rotation, slow	each 4 th sound impulse ↻ new position	254	FE	99
	Gobo position 0 ... 540°		255	FF	100
9) Gobo 2	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..7	0..7	0..2,9
(indexed)	Gobo 2 (fast)		8..15	8..F	3..5,9
	Gobo 3 (fast)		16..23	10..17	6..8,9
	Gobo 4 (fast)		24..31	18..1F	9..11,9
	Gobo 5 (fast)		32..39	20..27	12..14,9
	Gobo 6 (fast)		40..47	28..2F	15..17,9
	Gobo 7 (fast)		48..55	30..37	18..20,9
	Gobo 8 (fast)		56..63	38..3F	21..23
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	64..71	40..47	24..26,9
	Gobo 2 (slow)		72..79	48..4F	27..29,9
	Gobo 3 (slow)		80..87	50..57	30..33,9
	Gobo 4 (slow)		88..95	58..5F	34..36,9
	Gobo 5 (slow)		96..103	60..67	37..39,9
	Gobo 6 (slow)		104..111	68..6F	40..42,9
	Gobo 7 (slow)		112..119	70..77	43..45,9
	Gobo 8 (slow)		120..127	78..7F	46..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4 th sound impulse ↻ new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse Æ new gobo	255	FF	100
10) Gobo 2	Gobo position 0 ... 540°		0..127	00..7F	0..49
Posi./Rot	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192..253	C0..FD	76..100
	Audio gobo rotation, slow	each 4 th sound impulse ↻ new position	254	FE	99
	Gobo position 0 ... 540°		255	FF	100

Channel	Function	Time and Value	DMX	HEX	%
11) Gobo 3	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..3	00..03	0..1
(fixed)	Gobo 2 (fast)		4..7	04..07	2..3
	Gobo 3 (fast)		8..11	08..0B	3..4

	Gobo 4 (fast)		12..15	0C..0F	5..6
	Gobo 5 (fast)		16..19	10..13	6..7
	Gobo 6 (fast)		20..23	14..17	8..9
	Gobo 7 (fast)		24..27	18..1B	9..10
	Gobo 8 (fast)		28..31	1C..1F	11..12
	Gobo 9 (fast)		32..35	20..23	13..14
	Gobo 10 (fast)		36..39	24..27	14..15
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	64..67	41..43	25..26
	Gobo 2 (slow)		68..71	44..47	27..28
	Gobo 3 (slow)		72..75	48..4B	28..29
	Gobo 4 (slow)		76..79	4C..50	30..31
	Gobo 5 (slow)		80..83	51..53	32..33
	Gobo 6 (slow)		84..87	54..57	33..34
	Gobo 7 (slow)		88..91	58..5B	35..36
	Gobo 8 (slow)		92..95	5C..5F	36..37
	Gobo 9 (slow)		96..99	60..63	38..39
	Gobo 10 (slow)		100..103	64..67	39..40
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase (slow)	each 4 th sound impulse ⇒ new gobo	254	FE	99
	Audio gobo chase (fast)	each sound impulse Æ new gobo	255	FF	100
12)	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. frequent 0,7 Hz	32..47	20..2F	12..12,9
	Audio Shutter		48..63	30..3F	13..25
	Strobe effect , slow - fast	max. frequent 10 Hz	64..239	40..EF	26..93
	Shutter open (lamp start)		240..255	F0..FF	94..100
13)	Dimmer				
	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..255	FC..FF	99..100
14) Focus	In (near) - out (far)	full distance 1,5 sec.	0..255	0..FF	0..100
15) Zoom	Inside (near) - outside (far)	full distance 1,5 sec.	0..255	0..FF	0..100
16) Frost	Open (0%) - retracted (100%)	full distance 1,5 sec.	0..255	0..FF	0..100
17) Prism	Prism swing out		0..5	00..05	0..2
	Prism position 0 ... 540°		6..129	06..7F	0..50
	Prism rotation stop		130..191	80..BF	51..75
	Prism rotation, slow-fast, CW	min. 1,6 turns/h	192..253	C0..FD	76..100
	Prism rotation, fast-slow, CCW	max. 4,4 turns/sec.	254	FE	99
	Audio prism rotation, slow	each 4 th sound impulse ⇒ new prism	255	FF	100
18) Iris	Iris open – closed		0..127	00..7F	00..49

	Ascend with Shutter, random		128..143	80..8F	50..56
	Descend with Shutter, random		144..159	90..9F	56..62
	Ascend with Shutter, audio		160..175	A0..AF	63..68
	Descend with Shutter, audio		176..191	B0..BF	69..74
	Ascend with Shutter	slow - fast	192..207	C0..CF	75..81

Channel	Function	Time and Value	DMX	HEX	%	
	Descend with Shutter	slow - fast	208..223	D0..DF	82..87	
	Pulse - effect	slow - fast	224..239	E0..EF	88..93	
	Ascend - descend effect	slow - fast	240..253	F0..FD	94..99	
	Iris open		254..255	FE..FF	100	
19) Spezial	No function		0..15	00..0F	0..6	
	Gobo 1 shake +/- 10° slow – fast	3,5 moves / min. up to 60 moves / max.	16..31	10..1F	7..12	
	Gobo 1 shake +/- 20° slow – fast	3,5 moves / min. up to 60 moves / max.	32..47	20..2F	13..18	
	Gobo 1 shake +/- 30° slow – fast	3,5 moves / min. up to 60 moves / max.	48..63	30..3F	19..24	
	Gobo 2 shake +/- 10° slow – fast	3,5 moves / min. up to 60 moves / max.	64..79	40..4F	25..31	
	Gobo 2 shake +/- 20° slow – fast	3,5 moves / min. up to 60 moves / max.	80..95	50..5F	32..37	
	Gobo 2 shake +/- 30° slow – fast	3,5 moves / min. up to 60 moves / max.	96..111	60..6F	38..43	
	Color 1 chaser C / C+1 slow – fast	0,7 BPS ... 2,3 BPS => 1,43 s ... 0,43 s	112..127	70..7F	44..50	
	Color 1 chaser C / C+2 slow – fast	0,7 BPS ... 2,0 BPS => 1,43 s ... 0,5 s	128..143	80..8F	51..56	
	Color 2 chaser C / C+1 slow – fast	0,7 BPS ... 2,3 BPS => 1,43 s ... 0,43 s	144..159	90..9F	57..62	
	Color 2 chaser C / C+2 slow – fast	0,7 BPS ... 2,0 BPS => 1,43 s ... 0,5 s	160..175	A0..AF	63..68	
	Audio Pan / Tilt slow	each 4 th sound impulse → new position	176..191	B0..BF	69..74	
	Audio Pan / Tilt fast	each sound impulse → new position	192..207	C0..CF	75..81	
	No function		208..223	D0..DF	82..87	
	Fan min. as long as temp. < 90°C		224..229	E0..E5	88..90	
	Lamp OFF (min. 3 sec.) if Shutter closed '000'		230..249	E6..F9	92..97	
	Reset		250..255	FA..FF	98..100	
20) 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

Channel	Function	Time and Value	DMX	HEX	%
	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
21) Speed Pan/Tilt	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	Channel 12	240..255	F0..FF	94..100
Lamp OFF	Lamp OFF (min. 3 sec.) if Shutter closed '000'	Channel 19 and Channel 12	230..249 0	6E..9F 0	92..97 0
Reset		Channel 19	250..255	FA..FF	98..100