

COBRA From SW 111

DMX channel's functions and their values (45DMX channels):

Mode/Channel			Value	Function
St	Ba	Ex		
1	1	1		PAN Movement 8bit :
			0-255	Pan Movement
2		2		Pan Fine 16bit
			0-255	Fine control of Pan movement
3	2	3		TILT Movement 8bit :
			0-255	Tilt Movement
4		4		Tilt Fine 16bit
			0-255	Fine control of Tilt movement
5	3	5		Speed Pan/Tilt movement:
			0-225	max to min speed
			226-235	blackout by movement
			236-245	blackout by all wheel changing
			246-255	no function
6	4	6		Pan Motor continuous rotation
			0-63	stop rotation by spinout
			64-127	stop rotation by shortcut
			128-189	Forwards Pan rotation from fast to slow
			190-193	No rotation
			194-255	Backwards Pan rotation from slow to fast
7	5	7		Tilt Motor continuous rotation
			0-63	stop rotation by spinout
			64-127	stop rotation by shortcut
			128-189	Forwards Tilt rotation from fast to slow
			190-193	No rotation
8	6	8		Shutter, strobe:
			0-10	Shutter closed
			11-20	No function (shutter open)
			21-117	Strobe effect slow to fast
			118-126	No function (shutter open)
			127-180	Pulse-effect in sequences
			181-191	No function (shutter open)
			192-245	Random strobe effect slow to fast
246-255	No function (shutter open)			
9	7	9		Dimmer intensity:
			0-255	Intensity 0 to 100%
		10		Fine Dimmer intensity:
			0-255	Dimmer intensity fine
10	8	11		CTO Color :
			0-255	CTO (0-white, 255-100% CTO)
11	9	12		CTO Color Fine :
			0-255	CTO Fine
12	10	13		Reserved

13	11	14		Zoom :
			0-255	Zoom adjustment from small to big
		15		Zoom Fine:
			0-255	Zoom adjustment Fine
14	12	16		Focus :
			0-255	Continuous adjustment from near to far
		17		Focus Fine:
			0-255	Continuous adjustment Fine
15	13	18		Auto Focus :
			0-50	Auto Focus Off
			51-100	5m
			101-150	7.5m
			151-200	10m
		201-255	15m	
16	14	19		AutoFocus Fine:
			0-255	Continuous adjustment Fine
17	15	20		Zoom mode:
			0-84	Beam mode
			85-169	Spot mode
			170-255	Special mode
18	16	21		Color Wheel :
			0-63	CTO (0-white, 63-100% CTO)
			64	Color 1
			65	Color 2
			66	Color 3
			67	Color 4
			68	Color 5
			69	Color 6
			70	Color 7
			71	Color 8
			72	Color 9
			73	Color 10
			74	Color 11
			75	Color 12
			76	Color 13
			77	Color 14
			78	Color 15
			79	Color 16
			80	Color 17
			81	Color 18
			82	Color 19
			83	Color 20
			84	Color 21
			85	Color 22
			86	Color 23
87	Color 24			
88	Color 25			
89	Color 26			
90	Color 27			
		91-127	unused	
		128-189	Forwards rainbow effect from fast to slow	
		190-193	No rotation	
		194-255	Backwards rainbow effect from slow to fast	
		22		Color Wheel Fine:
			0-255	Color Wheel colour change to any position Fine
19	17	23		Cyan Color :
			0-255	Cyan (0-white, 255-100% Cyan)
		24		Cyan Color Fine :
			0-255	Cyan Fine
20	18	25		Magenta Color :
			0-255	Magenta (0-white, 255-100% magenta)
		26		Magenta Color Fine :
			0-255	Magenta Fine
21	19	27		Yellow Color :
			0-255	Yellow (0-white, 255-100% Yellow)
		28		Yellow Color Fine :
			0-255	Yellow Fine

22	20	29		Rotating gobos, cont. rotation :
			0-9	Open
			10-13	Rot. gobo 1
			14-17	Rot. gobo 2
			18-21	Rot. gobo 3
			22-25	Rot. gobo 4
			26-29	Rot. gobo 5
			30-33	Rot. gobo 6
			34-37	Rot. gobo 7
			38-41	Rot. gobo 8
			42-45	Rot. gobo 9
			46-49	Rot. gobo 10
			50-53	Rot. gobo 11
			54-57	Rot. gobo 12
			58-68	Gobo 1 shake slow to fast
			69-79	Gobo 2 shake slow to fast
			80-90	Gobo 3 shake slow to fast
			91-101	Gobo 4 shake slow to fast
			102-112	Gobo 5 shake slow to fast
			113-123	Gobo 6 shake slow to fast
			124-134	Gobo 7 shake slow to fast
			135-145	Gobo 8 shake slow to fast
			146-156	Gobo 9 shake slow to fast
			157-167	Gobo 10 shake slow to fast
168-178	Gobo 11 shake slow to fast			
179-189	Gobo 12 shake slow to fast			
190-221	Gobo wheel rotation forwards from fast to slow			
222-223	No rotation			
224-255	Gobo wheel rotation f backwards from slow to fast			
23	21	30		Rotating gobo index,rotating gobo rotation 1:
			0-127	Gobo indexing
			128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
			194-255	Backwards gobo rotation from slow to fast
		31		Rotating gobo indexing Fine :
			0-255	Fine indexing

Static Gobo:	
0-2	Open
3-14	Forwards rotation from fast to slow
15-17	No rotation
18-29	Backwards rotation from slow to fast
30	Gobo 1
31	Gobo 2
32	Gobo 3
33	Gobo 4
34	Gobo 5
35	Gobo 6
36	Gobo 7
37	Gobo 8
38	Gobo 9
39	Gobo 10
40	Gobo 11
41	Gobo 12
42	Gobo 13
43	Gobo 14
44	Gobo 15
45	Gobo 16
46	Gobo 17
47	Gobo 18
48	Gobo 19
49	Gobo 20
50	Gobo 21
51	Gobo 22
52	Gobo 23
53	Gobo 24
54	Gobo 25
55	Gobo 26
56	Gobo 27
57	Gobo 28
58	Gobo 29
59	Gobo 30
60	Gobo 31
61	Gobo 32
62	Gobo 33
63	Gobo 34
64	Gobo 35
65	Open
66	Gobo 36
67	Gobo 37
68	Gobo 38
69	Gobo 39
70	Gobo 40
71	Gobo 41
72	Gobo 42
73	Gobo 43
74	Gobo 44
75	Gobo 45
76	Gobo 46
77	Gobo 47
78	Gobo 48
79	Gobo 49
80	Gobo 50
81	Gobo 51
82	Gobo 52
83	Gobo 53
84	Gobo 54
85	Gobo 55
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87	Gobo 57
88	Gobo 58
89	Gobo 59
90	Gobo 60
91	Gobo 61
92	Gobo 62
93	Gobo 63
94	Gobo 64

24 22 32

95 Open
96 Gobo 65
97 Gobo 66
98 Gobo 67
99 Gobo 68
100 Gobo 69
101 Gobo 70
102 Gobo 71
103 Gobo 72
104 Gobo 73
105 Gobo 74
106 Gobo 75
107 Gobo 76
108 Gobo 77
109 Gobo 78
110 Gobo 79
111 Gobo 1 shake slow to fast
112 Gobo 2 shake slow to fast
113 Gobo 3 shake slow to fast
114 Gobo 4 shake slow to fast
115 Gobo 5 shake slow to fast
116 Gobo 6 shake slow to fast
117 Gobo 7 shake slow to fast
118 Gobo 8 shake slow to fast
119 Gobo 9 shake slow to fast
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			166	Gobo 56 shake slow to fast
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			171	Gobo 61 shake slow to fast
			172	Gobo 62 shake slow to fast
			173	Gobo 63 shake slow to fast
			174	Gobo 64 shake slow to fast
			175	Gobo 65 shake slow to fast
			176	Gobo 66 shake slow to fast
			177	Gobo 67 shake slow to fast
			178	Gobo 68 shake slow to fast
			179	Gobo 69 shake slow to fast
			180	Gobo 70 shake slow to fast
			181	Gobo 71 shake slow to fast
			182	Gobo 72 shake slow to fast
			183	Gobo 73 shake slow to fast
			184	Gobo 74 shake slow to fast
			185	Gobo 75 shake slow to fast
			186	Gobo 76 shake slow to fast
			187	Gobo 77 shake slow to fast
			188	Gobo 78 shake slow to fast
			189	Gobo 79 shake slow to fast
			190-221	Clock-wise scroll from fast to slow
			222-223	Reserved
			224-255	Counter clock-wise scroll from slow to fast
25	23	33		Prism 1, Frost:
			0-40	Open
			41-83	Prism 1
			84-126	Prism 2
			127-169	Prism 3
			170-212	Prism 4
			213-255	Frost
26	24	34		Rotating prism index, rotating prism rotation 1
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		35		Rotating prism indexing Fine 1:
			0-255	Fine indexing
27	25	36		Prism 2, Frost:
			0-40	Open
			41-83	Prism 1
			84-126	Prism 2
			127-169	Prism 3
			170-212	Prism 4
			213-255	Frost
28	26	37		Rotating prism index, rotating prism rotation 2
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		38		Rotating prism indexing Fine 2:
			0-255	Fine indexing
29	27	39		Pan degree blackout coarse
			0-255	
30	28	40		Pan degree blackout fine
			0-255	
31	29	41		Pan black out size
			0-255	0 to 100% : size of the black out zone
32	30	42		Tilt degree blackout coarse
			0-255	
33	31	43		Tilt degree blackout fine
			0-255	
34	32	44		Tilt black out size
			0-255	0 to 100% : size of the black out zone

35	33	45	Control, reset, internal programs:
			0-4 unused
			5-9 Display Off
			10-14 Display On
			15-19 Display Invert Off
			20-24 Display Invert On
			25-26 Auto fan control mode
			27-28 Stage fan control mode
			29-30 Silence fan control mode
			31-32 Super Silence fan control mode
			33-34 Constant Fans Off
			35-36 Constant Fans On
			37-44 unused
			45-49 Square Law
			50-54 Linear
			55-57 1.2K
			58-60 2.4K
			61-63 16K
			64-69 25K
			70-74 Prism Mode Simple
			75-79 Prism Mode Full
			80-84 All motor reset
			85-87 Scan motor reset
			88-90 Colors motor reset
			91-93 Gobo motor reset
			94 unused
			95 Reset P/T Fade Off
			96 Reset P/T Fade On
			97-99 Other motor reset
			100-102 unused
			103-105 unused
			106-108 CMY speed Slow
			109-111 CMY speed Medium
			112-114 CMY speed Fast
			115-117 Prerig INIT Off
			118-120 Prerig INIT On
			121-123 Pan Degree 540°
			124-126 Pan Degree 630°
			127-129 Tilt Degree 540°
			130-132 Tilt Degree 270°
			133-135 CTO Control: Color Wheel
			136-138 CTO Control: Separate Ch
			139-255 unused