



## COBRA From SW 123 and above

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

Mode/Channel			Value	Function	Default Value
St	Ba	Ex			
1	1	1		<b>PAN Movement 8bit :</b>	128
			0-255	Pan Movement	
2		2		<b>Pan Fine 16bit</b>	0
			0-255	Fine control of Pan movement	
3	2	3		<b>TILT Movement 8bit :</b>	128
			0-255	Tilt Movement	
4		4		<b>Tilt Fine 16bit</b>	0
			0-255	Fine control of Tilt movement	
5	3	5		<b>Speed Pan/Tilt movement:</b>	0
			0-225	max to min speed	
			226-235	blackout by movement	
			236-245	blackout by all wheel changing	
6	4	6		<b>Pan Motor continuous rotation</b>	0
			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		<b>Tilt Motor continuous rotation</b>	0
			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	
194-255	Backwards Tilt rotation from slow to fast				
8	6	8		<b>Shutter, strobe:</b>	11
			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		<b>Dimmer intensity:</b>	0
			0-255	Intensity 0 to 100%	
		10		<b>Fine Dimmer intensity:</b>	0
			0-255	Dimmer intensity fine	

10	8	11		<b>CTO Color :</b>	0
			0-255	CTO (0-white, 255-100% CTO)	
11	9	12		<b>CTO Color Fine :</b>	0
			0-255	CTO Fine	
12	10	13		Reserved	

13	11	14		<b>Zoom :</b>	19
			0-255	Zoom adjustment from small to big	
		15		<b>Zoom Fine:</b>	83
			0-255	Zoom adjustment Fine	
14	12	16		<b>Focus :</b>	90
			0-255	Continuous adjustment from near to far	
		17		<b>Focus Fine:</b>	192
			0-255	Continuous adjustment Fine	
15	13	18		<b>Auto Focus :</b>	0
			0-50	Auto Focus Off	
			51-100	5m	
			101-150	7.5m	
			151-200	10m	
			201-255	15m	
16	14	19		<b>AutoFocus Fine:</b>	0
			0-255	Continuous adjustment Fine	
17	15	20		<b>Zoom mode:</b>	0
			0-84	Beam mode	
			85-169	Spot mode	
			170-255	Special mode	
18	16	21		<b>Color Wheel :</b>	0
			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		<b><u>Color Wheel Fine:</u></b>	0
			0-255	Color Wheel colour change to any position Fine	
19	17	23		<b><u>Cyan Color :</u></b>	0
			0-255	Cyan (0-white, 255-100% Cyan)	
		24		<b><u>Cyan Color Fine :</u></b>	0
			0-255	Cyan Fine	
20	18	25		<b><u>Magenta Color :</u></b>	0
			0-255	Magenta (0-white, 255-100% magenta)	
		26		<b><u>Magenta Color Fine :</u></b>	0
			0-255	Magenta Fine	
21	19	27		<b><u>Yellow Color :</u></b>	0
			0-255	Yellow (0-white, 255-100% Yellow)	
		28		<b><u>Yellow Color Fine :</u></b>	0
			0-255	Yellow Fine	

22	20	29		<b>Rotating gobos, cont. rotation :</b>	0
			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		<b>Rotating gobo index,rotating gobo rotation 1:</b>	0
			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		<b>Rotating gobo indexing Fine :</b>	0
			0-255	Fine indexing	

	<b>Fixed Gobo:</b>	0
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	





			149	Gobo 39 shake	
			150	Gobo 40 shake	
			151	Gobo 41 shake	
			152	Gobo 42 shake	
			153	Gobo 43 shake	
			154	Gobo 44 shake	
			155	Gobo 45 shake	
			156	Gobo 46 shake	
			157	Gobo 47 shake	
			158	Gobo 48 shake	
			159	Gobo 49 shake	
			160	Gobo 50 shake	
			161	Gobo 51 shake	
			162	Gobo 52 shake	
			163	Gobo 53 shake	
			164	Gobo 54 shake	
			165	Gobo 55 shake	
			166	Gobo 56 shake	
			167	Gobo 57 shake	
			168	Gobo 58 shake	
			169	Gobo 59 shake	
			170	Gobo 60 shake	
			171	Gobo 61 shake	
			172	Gobo 62 shake	
			173	Gobo 63 shake	
			174	Gobo 64 shake	
			175	Gobo 65 shake	
			176	Gobo 66 shake	
			177	Gobo 67 shake	
			178	Gobo 68 shake	
			179	Gobo 69 shake	
			180	Gobo 70 shake	
			181	Gobo 71 shake	
			182	Gobo 72 shake	
			183	Gobo 73 shake	
			184	Gobo 74 shake	
			185	Gobo 75 shake	
			186	Gobo 76 shake	
			187	Gobo 77 shake	
			188	Gobo 78 shake	
			189	Gobo 79 shake	
			190-221	Clock-wise scroll from fast to slow	
			222-223	Reserved	
			224-255	Counter clock-wise scroll from slow to fast	
				<b>Prism 1, Frost:</b>	0
			0-40	Open	
			41-83	Prism 1	
			84-126	Prism 2	
			127-169	Prism 3	
			170-212	Prism 4	
			213-255	Frost	
				<b>Rotating prism index, rotating prism rotation 1</b>	0
			0-127	Prism indexing	
			128-189	Forwards prism rotation from fast to slow	
25	23	33			
26	24	34			

			190-193	No rotation	
			194-255	Backwards prism rotation from slow to fast	
		35		<b>Rotating prism indexing Fine 1:</b>	0
			0-255	Fine indexing	
27	25	36		<b>Prism 2 、 Frost:</b>	0
			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		<b>Rotating prism index, rotating prism rotation 2</b>	0
			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		<b>Rotating prism indexing Fine 2:</b>	0
			0-255	Fine indexing	
29	27	39		<b>Pan degree blackout coarse</b>	0
			0-255		
30	28	40		<b>Pan degree blackout fine</b>	0
			0-255		
31	29	41		<b>Pan black out size</b>	0
			0-255	0 to 100% : size of the black out zone	
32	30	42		<b>Tilt degree blackout coarse</b>	0
			0-255		
33	31	43		<b>Tilt degree blackout fine</b>	0
			0-255		
34	32	44		<b>Tilt black out size</b>	0
			0-255	0 to 100% : size of the black out zone	

35	33	45		<b>Control, reset, internal programs:</b>	0
			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				
139-141	Illumination Limit: 25m Distance				
142-144	Illumination Limit: 15m Distance				
145-147	Illumination Limit: 8m Distance				
148-150	Reset LED Fade Off				
151-153	Reset LED Fade On				
154-156	Beam Mode: Limited Range				
157-159	Beam Mode: Full Range				
160-162	Zoom behavior:Off				
163-165	Zoom behavior:Cobra 2				
160-255	unused				