



AYRTON

COBRA:

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
			194-255	Backwards Tilt rotation from slow to fast
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		Reserved
11	9	12		Reserved
12	10	13		Reserved
13	11	14		Zoom :

13	11	14	0-255	Zoom adjustment from small to big
		15		<u>Zoom Fine:</u>
			0-255	Zoom adjustment Fine
14	12	16		<u>Focus :</u>
			0-255	Continuous adjustment from near to far
		17		<u>Focus Fine:</u>
			0-255	Continuous adjustment Fine
15	13	18		<u>Auto Focus :</u>
			0-50	Auto Focus Off
			51-100	5m
			101-150	7.5m
			151-200	10m
			201-255	15m
16	14	19		<u>AutoFocus Fine:</u>
			0-255	Continuous adjustment Fine
17	15	20		<u>Zoom mode:</u>
			0-84	Beam mode
			85-169	Spot mode
			170-255	Special mode
18	16	21		<u>Color Wheel :</u>
			0-63	CTO (0-white, 255-100% 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
				<u>Color Wheel Fine:</u>

		22	0-255	Color Wheel colour change to any position Fine
19	17	23		<u>Cyan Color :</u>
			0-255	Cyan (0-white, 255-100% Cyan)
		24		<u>Cyan Color Fine :</u>
			0-255	Cyan Fine
20	18	25		<u>Magenta Color :</u>
			0-255	Magenta (0-white, 255-100% magenta)
		26		<u>Magenta Color Fine :</u>
			0-255	Magenta Fine
21	19	27		<u>Yellow Color :</u>
			0-255	Yellow (0-white, 255-100% Yellow)
		28		<u>Yellow Color Fine :</u>
			0-255	Yellow Fine
22	20	29		<u>Rotating gobos, cont. rotation :</u>
			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		<u>Rotating gobo index, rotating gobo rotation 1:</u>
			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		<u>Rotating gobo indexing Fine :</u>
			0-255	Fine indexing
				<u>Fixed Gobo:</u>

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	
			86	Gobo 56	
			87	Gobo 57	
			88	Gobo 58	
			89	Gobo 59	
			90	Gobo 60	
			91	Gobo 61	
			92	Gobo 62	
			93	Gobo 63	
			94	Gobo 64	
			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	
24	22	32	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	
			120	Gobo 10 shake slow to fast	
			121	Gobo 11 shake slow to fast	
			122	Gobo 12 shake slow to fast	
			123	Gobo 13 shake slow to fast	
			124	Gobo 14 shake slow to fast	
			125	Gobo 15 shake slow to fast	

126	Gobo 16 shake slow to fast
127	Gobo 17 shake slow to fast
128	Gobo 18 shake slow to fast
129	Gobo 19 shake slow to fast
130	Gobo 20 shake slow to fast
131	Gobo 21 shake slow to fast
132	Gobo 22 shake slow to fast
133	Gobo 23 shake slow to fast
134	Gobo 24 shake slow to fast
135	Gobo 25 shake slow to fast
136	Gobo 26 shake slow to fast
137	Gobo 27 shake slow to fast
138	Gobo 28 shake slow to fast
139	Gobo 29 shake slow to fast
140	Gobo 30 shake slow to fast
141	Gobo 31 shake slow to fast
142	Gobo 32 shake slow to fast
143	Gobo 33 shake slow to fast
144	Gobo 34 shake slow to fast
145	Gobo 35 shake slow to fast
146	Gobo 36 shake slow to fast
147	Gobo 37 shake slow to fast
148	Gobo 38 shake slow to fast
149	Gobo 39 shake slow to fast
150	Gobo 40 shake slow to fast
151	Gobo 41 shake slow to fast
152	Gobo 42 shake slow to fast
153	Gobo 43 shake slow to fast
154	Gobo 44 shake slow to fast
155	Gobo 45 shake slow to fast
156	Gobo 46 shake slow to fast
157	Gobo 47 shake slow to fast
158	Gobo 48 shake slow to fast
159	Gobo 49 shake slow to fast
160	Gobo 50 shake slow to fast
161	Gobo 51 shake slow to fast
162	Gobo 52 shake slow to fast
163	Gobo 53 shake slow to fast
164	Gobo 54 shake slow to fast
165	Gobo 55 shake slow to fast
166	Gobo 56 shake slow to fast
167	Gobo 57 shake slow to fast
168	Gobo 58 shake slow to fast
169	Gobo 59 shake slow to fast
170	Gobo 60 shake slow to fast
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		<u>Prism 1、Frost:</u>
			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		<u>Rotating prism index, rotating prism rotation 1</u>
			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		<u>Rotating prism indexing Fine 1:</u>
			0-255	Fine indexing
27	25	36		<u>Prism 2、Frost:</u>
			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		<u>Rotating prism index, rotating prism rotation 2</u>
			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		<u>Rotating prism indexing Fine 2:</u>
			0-255	Fine indexing
29	27	39		<u>Pan degree blackout coarse</u>
			0-255	
30	28	40		<u>Pan degree blackout fine</u>
			0-255	
				<u>Pan black out size</u>

31	29	41	0-255	0 to 100% : size of the black out zone
32	30	42		<u>Tilt degree blackout coarse</u>
			0-255	
33	31	43		<u>Tilt degree blackout fine</u>
			0-255	
34	32	44		<u>Tilt black out size</u>
			0-255	0 to 100% : size of the black out zone
35	33	45		<u>Control, reset, internal programs:</u>
			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	Gobo correction Off
			75-79	Gobo correction On
			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	Frost Progressive Off
			103-105	Frost Progressive On
			106-108	CMY speed Slow
			109-111	CMY speed Fast
			112-255	unused