

ColorSpot 700E AT - DMX Protocol-version 1.2

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	26	0 - 255	Pan Pan movement by 530°	proportional
2	2	2	2	27	0 - 255	Pan Fine Fine control of pan movement	proportional
3	3	3	3	28	0 - 255	Tilt Tilt movement by 280°	proportional
4	4	4	4	29	0 - 255	Tilt fine Fine control of tilt movement	proportional
5	5	5	5	30	0	Pan/Tilt speed , Pan/Tilt time Max. speed (tracking mode)	step
					1 - 255	<i>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</i> Speed from max. to min. (vector mode)	proportional
					1 - 255	<i>P./T. time - set Time Mode in menu: Pan/Tilt Mode</i> Time from 0.1 s to 25.5 s.	proportional
6	6	6	6	31	0 - 49	Power/Special functions Reserved <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 s. („Shutter, Strobe” channel 34 (27) must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i>	
					50 - 59	Pan/Tilt speed mode	step
					60 - 69	Pan/Tilt time mode	step
					70 - 79	Blackout while pan/tilt moving	step
					80 - 89	Disabled blackout while pan/tilt moving	step
					90 - 99	Blackout while colour wheel moving	step
					100 - 109	Disabled blackout while colour wheel moving	step
					110 - 119	Blackout while gobo wheel moving	step
					120-129	Disabled blackout while gobo wheel moving <i>To activate following functions, stop in DMX value for at least 3 s.</i>	step
					130 - 139	Lamp On,reset(total reset except pan/tilt reset)	step
					140 - 149	Pan/Tilt reset	step
					150 - 159	Colour system reset	step
					160 - 169	Gobo wheels reset	step
					170 - 179	Dimmer/strobe reset	step
					180 - 189	Zoom/focus/animation wheel reset	step
					190 - 199	Iris/prism reset	step
200 - 209	Total reset	step					
210 - 229	Reserved	step					
230 - 239	Lamp Off						
240 - 255	Reserved	step					
7	7	-	-	-	0 - 9	Pan/Tilt macro selection Disabled pan/tilt macro	step
					10 - 31	Reserved	step
					32 - 63	Figure of circle (from small to large)	proportional
					64 - 95	Figure of horizontal eight (from small to large)	proportional
					96 - 127	Figure of vertical eight (from small to large)	proportional
					128 - 159	Figure of rectangle (from small to large)	proportional
					160 - 191	Figure of triangle (from small to large)	proportional
					192 - 223	Figure of star (from small to large)	proportional
224 - 255	Figure of cross (from small to large)	proportional					
8	8	-	-	-	0	Pan/Tilt macro speed <i>(Set pan/tilt speed (channel 5) at 0)</i> No macro generation	step
					1 - 127	Macro generation from fast to slow-forwards	proportional
					128 - 129	No macro generation	step
					130 - 255	Macro generation from slow to fast-backwards	proportional

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
9	9	7	7	10		Colour wheel	proportiona proportiona proportiona proportional proportional proportional proportional proportional proportional proportional step step step step step step step proportional step proportional step proportional
					0	Open/white	
					16	Deep red	
					32	Deep blue	
					48	Orange	
					64	Green	
					80	Light red	
					96	Amber	
					112	UV filter	
					128-129	White	
						Positioning	
					130-137	Deep red	
					138-145	Deep blue	
					146-153	Orange	
					154-163	Green	
164-171	Light red						
172-181	Amber						
182-189	UV filter						
190 - 215	Forwards rainbow effect from fast to slow						
216 - 217	No rotation						
218 - 243	Backwards rainbow effect from slow to fast						
244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality”)						
250 - 255	Auto random colour selection from fast to slow						
10	-	8	-	11	0 - 255	Colour wheel - fine positioning Fine positioning	proportional
11	10	9	8	4	0 - 255	Cyan Cyan (0-white, 255-full cyan)	proportional
12	11	10	9	6	0 - 255	Magenta Magenta (0-white, 255-full magenta)	proportional
13	12	11	10	8	0 - 255	Yellow Yellow (0-white, 255-full yellow)	proportional
14	13	12	11	-	0 - 255	CTO filter (0-6000K, 255-3200K)	proportional
15	14	13	12	16		CMY colour macros	step step step step step step step step step step step step step step step step step step step
					0 - 7	No function	
					8 - 15	Macro 1	
					16 -23	Macro 2	
					24-31	Macro 3	
					32-39	Macro 4	
					40-47	Macro 5	
					48-55	Macro 6	
					56-63	Macro 7	
					64-71	Macro 8	
					72-79	Macro 9	
					80-87	Macro 10	
					88-95	Macro 11	
					96-103	Macro 12	
					104-111	Macro 13	
					112-119	Macro 14	
					120-127	Macro 15	
					128-135	Macro 16	
					136-143	Macro 17	
144-151	Macro 18						
152-159	Macro 19						

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
15	14	13	12	16	160-167	Macro 20	step
					168-175	Macro 21	step
					176-183	Macro 22	step
					184-191	Macro 23	step
					192-199	Macro 24	step
					200 - 207	Macro 25	step
					208 - 215	Macro 26	step
					216 - 223	Macro 27	step
					224 - 231	Macro 28	step
					232 - 239	Macro 29	step
					240 - 243	Macro 30 - Random rainbow effect from fast to slow	proportional
					244 - 249	Random macro selection by audio control (Set microphone sensitivity in menu "PErS")	step
				250 - 255	Auto random macro selection from fast to slow	proportional	
16	15	14	13	-	Speed of CMY and CTO filter 0 - 255 Speed from max. to min.	proportional	
17	16	15	14	17	0-31	Animation wheel Open	step
					32-47	Horizontal indexed position-set indexing on channel 18 (17)	step
					48-63	Vertical indexed position-set indexing on channel 18 (17)	step
					64-79	Cont.rotation,horizon. position-set speed on channel 18 (17)	step
					80-95	Cont.rotation,vertical. position-set speed on channel 18 (17)	step
					96-111	Horizontal pulse effects-set speed on channel 18 (17)	step
					112-127	Vertical pulse effects-set speed on channel 18 (17)	step
					128-191	Indexed angle position from horizont. to vert. with indexing (set indexing on channel 18 (17))	step
					192-255	Indexed angle position from vertic. to horizont. with rotation (set rotation on channel 18 (17))	step
					18	17	16
1-127	Forward rotation from fast to slow	proportional					
128-129	No rotation	step					
130-255	Backward rotation from slow to fast	proportional					
0-255	<i>Indexing of animation wheel</i> Indexed angle	proportional					
0-255	<i>Speed of pulse effects</i>	proportional					
0-255	From fast to slow	proportional					
19	18	17	16	15	0	Static gobo wheel Continual Positioning <i>In range 0-64 DMX is possible fine gobo positioning - set value on channel 20</i> Open/hole	proportional
					7	Gobo 1	proportional
					13	Gobo 2	proportional
					19	Gobo 3	proportional
					26	Gobo 4	proportional
					32	Gobo 5	proportional
					39	Gobo 6	proportional
					45	Gobo 7	proportional
					51	Gobo 8	proportional
					58	Gobo 9	proportional
					64	Open/hole	proportional
						Positioning	
					65 - 69	Gobo 1	step
					70 - 74	Gobo 2	step
					75 - 79	Gobo 3	step
80 - 84	Gobo 4	step					
85 - 89	Gobo 5	step					

Mode/Channel					Value	Function	Type of control				
1	2	3	4	5							
19	18	17	16	15	90 - 94	Gobo 6	step				
					95 - 99	Gobo 7	step				
					100 - 104	Gobo 8	step				
					105 - 109	Gobo 9	step				
					<i>Shaking gobos from slow to fast</i>						
					110 - 119	Gobo 1	proportional				
					120 - 129	Gobo 2	proportional				
					130 - 139	Gobo 3	proportional				
					140 - 149	Gobo 4	proportional				
					150 - 159	Gobo 5	proportional				
					160 - 169	Gobo 6	proportional				
					170 - 179	Gobo 7	proportional				
					180 - 189	Gobo 8	proportional				
					190 - 199	Gobo 9	proportional				
					200 - 201	Open/hole					
					202 - 221	Forwards gobo wheel rotation from fast to slow	proportional				
					222 - 223	No rotation					
					224 - 243	Backwards gobo wheel rotation from slow to fast	proportional				
					244 - 249	Random gobo selection by audio control (Set microphone sensitivity in menu „Personality”)	step				
250 - 255	Auto random gobo selection from fast to slow	proportional									
20	-	18	-	-	0-255	Fine static gobo wheel Fine positioning	proportional				
21	19	19	17	12	Rotating gobo wheel						
					<i>Index - set indexing on channel 22 (20)</i>						
					0 - 3	Open/hole	step				
					4 - 7	Gobo 1	step				
					8 - 11	Gobo 2	step				
					12 - 15	Gobo 3	step				
					16 - 19	Gobo 4	step				
					20 - 23	Gobo 5	step				
					24 - 27	Gobo 6	step				
					28 - 31	Gobo 7	step				
					<i>Rotation - set rotation on channel 22 (20)</i>						
					32 - 35	Gobo 1	step				
					36 - 39	Gobo 2	step				
					40 - 43	Gobo 3	step				
					44 - 47	Gobo 4	step				
					48 - 51	Gobo 5	step				
					52 - 55	Gobo 6	step				
					56 - 59	Gobo 7	step				
					<i>Shaking gobos from slow to fast</i>						
					<i>Index - set indexing on channel 22 (20)</i>						
					60 - 69	Gobo 1	proportional				
					70 - 79	Gobo 2	proportional				
					80 - 89	Gobo 3	proportional				
					90 - 99	Gobo 4	proportional				
					100 - 109	Gobo 5	proportional				
					110 - 119	Gobo 6	proportional				
					120 - 129	Gobo 7	proportional				
					<i>Shaking gobos from slow to fast</i>						
					<i>Rotation - set rotation on channel 22 (20)</i>						
					130 - 139	Gobo 1	proportional				
					140 - 149	Gobo 2	proportional				
					150 - 159	Gobo 3	proportional				
					160 - 169	Gobo 4	proportional				
170 - 179	Gobo 5	proportional									
180 - 189	Gobo 6	proportional									
190 - 199	Gobo 7	proportional									

Mode/channel					Value	Function	Type of control
1	2	3	4	5			
21	19	19	17	-	200 - 201 202 - 221 222 - 223 224 - 243 244 - 249 250 - 255	Open/hole Forwards gobo wheel rotation from fast to slow No rotation Backwards gobo wheel rotation from slow to fast Random gobo selection by audio control (Set microphone sensitivity in menu „Personality”) Auto random gobo selection from fast to slow	step proportional step proportional step proportiona
22	20	20	18	13	0 - 255 0 1 - 127 128 - 129 130 - 255	Rot. gobo indexing and rotation <u>Gobo indexing</u> - set position on channel 21 (19) Gobo indexing <u>Gobo rotation</u> - set position on channel 21 (19) No rotation Forwards gobo rotation from fast to slow No rotation Backwards gobo rotation from slow to fast	proportional step proportional step proportional
23	-	21	-	14	0-255	Gobo fine indexing Fine indexing	proportional
24	21	22	19	19	0 - 19 20 - 127 128 - 255 128 - 135 136 - 143 144 - 151 152 - 159 160 - 167 168 - 175 176 - 183 184 - 191 192 - 199 200 - 207 208 - 215 216 - 223 224 - 231 232 - 239 240 - 247 248 - 255	Prism Open position (hole) 3-facet rotating prism Prism/gobo macros Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16	step step step step step step step step step step step step step step step
25	22	23	20	-	0 1 - 127 128 - 129 130 - 255	Prism rotation No rotation Forwards rotation from fast to slow proportional No rotation Backwards rotation from slow to fast	step proportional step proportional
26	23	24	21	-	0 1 - 179 180 - 189 190 - 211 212 - 233 234 - 255	Frost Open Frost from 0% to 100% 100% frost Pulse closing from slow to fast Pulse opening from fast to slow Ramping from fast to slow	step proportional step proportional proportional proportional
27	-	25	-	-	0-255	Frost fine Smooth frosting	proportional
28	24	26	22	20	0 1 - 179 180 - 191	Iris Open From max.diameter to min.diameter Closed	step proportional step

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
28	24	26	22	20	192 - 219 220 - 247 248 - 249 250 - 251 252 - 253 254 - 255	<i>Pulse effects with Iris blackout:</i> Pulse opening from slow to fast Pulse closing from fast to slow Random pulse opening (fast) Random pulse opening (slow) Random pulse closing (fast) Random pulse closing (slow)	proportional proportional step step step step
29	-	27	-	21	0 - 255	Iris fine Iris fine	proportional
30	25	28	23	24	0 - 255	Zoom Zoom from max. to min.beam angle	proportional
31	-	29	-	25	0-255	Zoom fine Zoom fine	proportional
32	26	30	24	22	0 - 255	Focus Continuous adjustment from far to near	proportional
33	-	31	-	23	0- 255	Focus fine Focus fine	proportional
34	27	32	25	1	0 - 31 32 - 63 64 - 95 96 - 127 128 - 143 144 - 159 160 - 191 192 - 223 224 - 255	Shutter, strobe Shutter closed, Lamp power reduced to 350 W (after 10 s*) Shutter open, Full lamp power Strobe-effect from slow to fast (max.15 ashes/s) Shutter open, Lamp power reduced to 350 W Opening pulse in sequences from slow to fast Closing pulse in sequences from fast to slow Shutter open, Electronic strobing „ZAP” from slow to fast (from 7 to 33 ashes/s) Random strobe-effect from slow to fast Shutter open, Full lamp power	step step proportional step proportional proportional proportional proportional step
35	28	33	26	2	0 - 255	Dimmer intensity Dimmer intensity from 0% to 100% (In range of 0-3 DMX,lamp power reduced to 350 W)	proportional
36	-	34	-	3	0 - 255	Fine dimmer intensity Dimmer intensity fine	proportional
-	-	-	-	5		No function	
-	-	-	-	7		No function	
-	-	-	-	9		No function	

* 10s=default time delay,this value can be changed by "Lamp Low Power Delay" menu.