

## ColorSpot 700E AT - DMX Protocol - version 1.3

Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
1	1	1	1	26	1	0 - 255	<b>Pan</b> Pan movement by 530°	proportional
2	2	2	2	27	-	0 - 255	<b>Pan Fine</b> Fine control of pan movement	proportional
3	3	3	3	28	2	0 - 255	<b>Tilt</b> Tilt movement by 280°	proportional
4	4	4	4	29	-	0 - 255	<b>Tilt fine</b> Fine control of tilt movement	proportional
5	5	5	5	30	3	0	<b>Pan/Tilt speed , Pan/Tilt time</b> Max. speed (tracking mode)	step
						1 - 255	<i><b>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</b></i> Speed from max. to min. (vector mode)	proportional
						1 - 255	<i><b>P./T. time - set Time Mode in menu: Pan/Tilt Mode</b></i> Time from 0.1 s to 25.5 s.	proportional
6	6	6	6	31	4	0 - 49	<b>Power/Special functions</b> 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	<b>Pan/Tilt macro selection</b> 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	<b>Pan/Tilt macro speed</b> <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	6				
9	9	7	7	10	5	0	<b>Colour wheel</b> <b>Continual positioning</b> Open/white	proportiona proportiona proportiona proportional proportional proportional proportional proportional proportional	
						16	Deep red		
						32	Deep blue		
						48	Orange		
						64	Green		
						80	Light red		
						96	Amber		
						112	UV filter		
						128-129	White		
						130-137	<b>Positioning</b> Deep red		step
						138-145	Deep blue		step
						146-153	Orange		step
						154-163	Green		step
						164-171	Light red		step
						172-181	Amber		step
182-189	UV filter	step							
190 - 215	Forwards rainbow effect from fast to slow	proportional							
216 - 217	No rotation	step							
218 - 243	Backwards rainbow effect from slow to fast	proportional							
244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality“)	step							
250 - 255	Auto random colour selection from fast to slow	proportional							
10	-	8	-	11	-	0 - 255	<b>Colour wheel - fine positioning</b> Fine positioning	proportional	
11	10	9	8	4	6	0 - 255	<b>Cyan</b> Cyan (0-white, 255-full cyan)	proportional	
12	11	10	9	6	7	0 - 255	<b>Magenta</b> Magenta (0-white, 255-full magenta)	proportional	
13	12	11	10	8	8	0 - 255	<b>Yellow</b> Yellow (0-white, 255-full yellow)	proportional	
14	13	12	11	-	9	0 - 255	<b>CTO filter</b> (0-6000K, 255-3200K)	proportional	
15	14	13	12	16	10	0 - 7	<b>CMY colour macros</b> No function	step step step step step step step step step step step step step step step step step step step	
						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	6			
15	14	13	12	16	10	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	-	11	0 - 255	<b>Speed of CMY and CTO filter</b> Speed from max. to min.	proportional
17	16	15	14	17	12	0-31	<b>Animation wheel</b> 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	15	18	13	0	<b>Animation wheel rotation and indexing</b> <i>Rotation of animation wheel</i> No rotation	step
						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> From fast to slow	proportional
19	18	17	16	15	14	0	<b>Static gobo wheel</b> <b>Continual Positioning</b> <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
						65 - 69	<b>Positioning</b> 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	6							
19	18	17	16	15	14	90 - 94	Gobo 6	step				
						95 - 99	Gobo 7	step				
						100 - 104	Gobo 8	step				
						105 - 109	Gobo 9	step				
						<b><i>Shaking gobos from slow to fast</i></b>						
						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	proportiona										
20	-	18	-	-	-	0-255	<b>Fine static gobo wheel</b> Fine positioning	proportional				
21	19	19	17	12	15	<b>Rotating gobo wheel</b> <b><i>Index - set indexing on channel 22 (20)</i></b>						
						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				
						<b><i>Rotation - set rotation on channel 22 (20)</i></b>						
						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				
						<b><i>Shaking gobos from slow to fast</i></b>						
						<b><i>Index - set indexing on channel 22 (20)</i></b>						
						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				
						<b><i>Shaking gobos from slow to fast</i></b>						
<b><i>Rotation - set rotation on channel 22 (20)</i></b>												
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	6			
21	19	19	17	12	15	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	16	0 - 255 0 1 - 127 128 - 129 130 - 255	<b>Rot. gobo indexing and rotation</b> <b><u>Gobo indexing</u> - set position on channel 21 (19)</b> Gobo indexing <b><u>Gobo rotation</u> - set position on channel 21 (19)</b> 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	<b>Gobo fine indexing</b> Fine indexing	proportional
24	21	22	19	19	17	0 - 19 20 - 127 <b>128 - 255 Prism/gobo macros</b> 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	<b>Prism</b> Open position (hole) 3-facet rotating prism <b>Prism/gobo macros</b> 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	-	18	0 1 - 127 128 - 129 130 - 255	<b>Prism rotation</b> 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	-	19	0 1 - 179 180 - 189 190 - 211 212 - 233 234 - 255	<b>Frost</b> 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	<b>Frost fine</b> Smooth frosting	proportional
28	24	26	22	20	20	0 1 - 179 180 - 191	<b>Iris</b> Open From max.diameter to min.diameter Closed	step proportional step

Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
28	24	26	22	20	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	<b>Iris fine</b> Iris fine	proportional
30	25	28	23	24	21	0 - 255	<b>Zoom</b> Zoom from max. to min.beam angle	proportional
31	-	29	-	25	-	0-255	<b>Zoom fine</b> Zoom fine	proportional
32	26	30	24	22	22	0 - 255	<b>Focus</b> Continuous adjustment from far to near	proportional
33	-	31	-	23	-	0- 255	<b>Focus fine</b> Focus fine	proportional
34	27	32	25	1	23	0 - 31 32 - 63 64 - 95 96 - 127 128 - 143 144 - 159 160 - 191  192 - 223 224 - 255	<b>Shutter, strobe</b> Shutter closed, Lamp power reduced to 350 W (after 10 s*) Shutter open, Full lamp power Strobe-effect from slow to fast (max.12 flashes/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 flashes/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	24	0 - 255	<b>Dimmer intensity</b> Dimmer intensity from 0% to 100% (In range of 0-8 DMX,lamp power reduced to 350 W)	proportional
36	-	34	-	3	-	0 - 255	<b>Fine dimmer intensity</b> Dimmer intensity fine	proportional
-	-	-	-	5	-		<b>No function</b>	
-	-	-	-	7	-		<b>No function</b>	
-	-	-	-	9	-		<b>No function</b>	

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