

Colorspot 250 AT-DMX Protocol-version 2.1

Mode/Channel				Value	Function	Type of control
1	2	3	4			
1	1	1	1	0-255	Pan Pan movement by 530°	proportional
2	2	2	2	0-255	Pan fine Fine control of pan movement	proportional
3	3	3	3	0-255	Tilt Tilt movement by 280°	proportional
4	4	4	4	0-255	Tilt fine Fine control of tilt movement	proportional
5	5	5	5	0	Pan/Tilt speed , Pan/Tilt time Max.speed (tracking mode)	step
				1-255	<i>P./T. speed- set Speed Mode in menu: P.t.Mo.</i> Speed from max. to min. (vector mode)	proportional
				1-255	<i>P./T. time - set Time Mode in menu: P.t.Mo.</i> Time from 0.1s to 25.5s. *	proportional
6	6	6	6	0-49	Power/Special functions Reserved	step
					<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 16(13, 18, 15) must be at range:0-31 DMX). **</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	step
					<i>To activate following functions, stop in DMX value for at least 3 s.</i>	
				130-139	Lamp On, reset(total reset except pan/tilt reset)	step
				140-149	Pan/Tilt reset	step
				150-159	Colour wheel reset	step
				160-169	Gobo wheel reset	step
				170-179	Dimmer/Strobe reset	step
				180-189	Focus reset	step
				190-199	Prism reset	step
				200-209	Total reset	step
				210-229	Reserved	step
				230-239	Lamp Off	step
				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 five-pointed star (from small to large)	proportional
				224-255	Figure of cross (from small to large)	proportional

Mode/Channel				Value	Function	Type of control
1	2	3	4			
		8	8	0 1-127 128-129 130-255	Pan/Tilt macro speed <i>Set pan/tilt speed (channel 5) to 0</i> No macro generation Macro generation from fast to slow -forwards No macro generation Macro generation from slow to fast- backwards	step proportional step proportional
7	7	9	9	0 11 23 34 46 58 70 81 93 105 117 128	Colour wheel <i>In range 0-128 DMX is possible fine colour positioning- set value on channel 8 (10)</i> Open/white Dark green Red Light azure Magenta UV filter Yellow Green Pink Blue Deep red White	proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional
				130-135 136-141 142-147 148-153 154-159 160-165 166-171 172-177 178-183 184-189 190-215 216-217 218-243 244-249 250-255	Dark green Red Light azure Magenta UV filter Yellow Green Pink Blue Deep red Forwards rainbow effect from fast to slow No rotation Backwards rainbow effect from slow to fast Random colour selection by audio control (Set microphone sensitivity in menu "Personality") Auto random colour selection from fast to slow	step step step step step step step step step step proportional step proportional step proportional
8		10		0-255	Colour wheel-fine positioning Fine positioning	proportional
9	8	11	10	0-3 4-7 8-11 12-15 16-19 20-23 24-27 28-31 32-35 36-39 40-43 44-47 48-51	Rotating gobo wheel <i>Index - set indexing on channel 10 (9,12,11)</i> Open/hole Gobo 1 (15030016) Gobo 2 (15040011) Gobo 3 (15020137) Gobo 4 (15020138) Gobo 5 (15020139) Gobo 6 (15020140) Gobo 7 (15020141) <i>Rotation - set rotation on channel 10 (9,12,11)</i> Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5	step step step step step step step step step step step step step

Mode/Channel				Value	Function	Type of control
1	2	3	4			
				240-247 248-255	Macro 11 Macro 12	step step
13	11	15	13	0 1-127 128-129 130-255	Prism rotation No rotation Forwards rotation from fast to slow No rotation Backwards rotation from slow to fast	step proportional step proportional
14	12	16	14	0-255	Focus Coarse focus	proportional
15		17		0-255	Focus fine Fine focus adjustment	
16	13	18	15	0-31 32-63 64-95 96-127 128-143 144-159 160-191 192-223 224-255	Shutter,Strobe Shutter closed No function (shutter open) Strobe-effect from slow to fast No function (shutter open) Opening pulse in sequences from slow to fast Closing pulse in sequences from fast to slow No function (shutter open) Random strobe-effect from slow to fast No function (shutter open)	step step proportional step proportional proportional step proportional step
17	14	19	16	0-255	Dimmer Coarse gradual adjustment of the dimmer intensity from 0 to 100%	proportional
18		20		0-255	Dimmer fine Dimmer intensity fine	proportional

* Short times are not used for long tracks(e.g. 0.5s for track 0-255 DMX). Times are restricted by mechanical parameters of the fixture.

** The switch-functions have priority to the equivalent functions in menu "Personality"but the setting by DMX is not saved to the memory(after switching the fixture on,the setting from menu "Personality" is loaded and after that can be changed with DMX value on the channel 6).

<u>DMX protocol</u>	<u>menu "PerS"</u>
50-59 Pan/Tilt speed mode	P.t.Mo.--->SP.Mo.
60-69 Pan/Tilt time mode	P.t.Mo.--->ti.Mo.
70-79 Blackout while pan/tilt moving	A.blc.-->P.t.M.-->On
80-89 Disabled blackout while pan/tilt moving	A.blc.-->P.t.M.-->Off
90-99 Blackout while colour wheel moving	A.blc.-->Col.M.-->On
100-109 Disabled blackout while colour wheel moving	A.blc.-->Col.M.-->Off
110-119 Blackout while gobo wheel moving	A.blc.-->Gob.M.-->On
120-129 Disabled blackout while gobo wheel moving	A.blc.-->Gob.M.-->Off