

## ColorSpot 2500E AT - DMX protocol,version 1.0

Mode / Channel			Value	Function	Type of control
1	2	3			
1	1	19	0 - 255	<b>Pan</b> Pan movement by 530°	proportional
2	2	20	0 - 255	<b>Pan Fine</b> Fine control of pan movement	proportional
3	3	21	0 - 255	<b>Tilt</b> Tilt movement by 260°	proportional
4	4	22	0 - 255	<b>Tilt fine</b> Fine control of tilt movement	proportional
5	5	23	0	<b>Pan/Tilt speed , Pan/Tilt time</b> Max. speed (tracking mode)*	step
			1 - 255	<b>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</b> Speed from max. to min. (vector mode)**	proportional
			1 - 255	<b>P./T. time - set Time Mode in menu: Pan/Tilt Mode</b> Time from 0,1 s to 25,5 s. ***	proportional
6	6	24	0 - 9	<b>Power/Special functions</b> Reserved 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 23 (30,1) must be at range: 0-31 DMX).****	step
			10 - 19	Autofocus On	step
			20 - 29	Autofocus Off	step
			30 - 49	Reserved	step
			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 1/gobo 2 moving	step
			120 - 129	Disabled blackout while gobo 1/gobo 2 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 system reset	step
170 - 179	Dimmer/Strobe reset	step			
180 - 189	Focus/Zoom/Frost reset	step			
190 - 199	Iris/Effect/ reset	step			
200 - 209	Total reset	step			
210 - 229	Reserved	step			
230 - 239	Lamp Off	step			
240 - 255	Reserved	step			

**Notes:** \* Range 0-255 DMX at max.speed (0 DMX):

pan=4.5 s

tilt=3.6 s

\*\* Range 0-255 DMX at min. speed (255 DMX):

pan=37min.10 s

tilt=19 min.34 s

\*\*\* 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).

### DMX protocol

10 - 19 Autofocus On  
20 - 29 Autofocus Off  
50 - 59 Pan/Tilt speed mode  
60 - 69 Pan/Tilt time mode  
70 - 79 Blackout while pan/tilt moving  
80 - 89 Disabled blackout while pan/tilt moving  
90 - 99 Blackout while colour wheel moving  
100 - 109 Disabled blackout while colour wheel moving  
110 - 119 Blackout while gobo1/gobo2 moving  
120 - 129 Disabled blackout while gobo1/gobo2moving

### menu „Personality”

Autofocus -->On  
Autofocus -->Off  
Pan/Tilt mode--->Speed Mode  
Pan/Tilt mode--->Time Mode  
Active blackout While-->Pan/Tilt Moving-->On  
Active blackout While-->Pan/Tilt Moving-->Off  
Active blackout While-->Colour Wheel Moving-->On  
Active blackout While-->Colour Wheel Moving-->Off  
Active blackout While-->Gobo Wheels Moving-->On  
Active blackout While-->Gobo Wheels Moving-->Off





Mode / Channel			Value	Function	Type of control
1	2	3			
13	17		34 - 37	<b>Rotation - set rotation on channel(s) 14 (18,19;9,10)</b> Gobo 1 - Rainbow Chips (15030012)	step
			38 - 41	Gobo 2 - Sun Man (15030013)	step
			42 - 45	Gobo 3 - Water Drops (15030014)	step
			46 - 49	Gobo 4 - Triangle Floating (15020123)	step
			50 - 53	Gobo 5 - Laser (15020124)	step
			54 - 57	Gobo 6 - Swirl Electric (15020125)	step
			58 - 69	<b>Shaking gobos from slow to fast</b> Gobo 1 - Rainbow Chips (15030012)	proportional
			70 - 81	Gobo 2 - Sun Man (15030013)	proportional
			82 - 93	Gobo 3 - Water Drops (15030014)	proportional
			94 - 105	Gobo 4 - Triangle Floating (15020123)	proportional
106 - 117	Gobo 5 - Laser (15020124)	proportional			
118 - 129	Gobo 6 - Swirl Electric (15020125)	proportional			
			<b>Shaking gobos from slow to fast</b> <b>Rotation - set rotation on channel(s) 14 (18,19;9,10)</b>		
			130 - 141 Gobo 1 - Rainbow Chips (15030012)	proportional	
			142 - 153 Gobo 2 - Sun Man (15030013)	proportional	
			154 - 165 Gobo 3 - Water Drops (15030014)	proportional	
			166 - 177 Gobo 4 - Triangle Floating (15020123)	proportional	
			178 - 189 Gobo 5 - Laser (15020124)	proportional	
			190 - 201 Gobo 6 - Swirl Electric (15020125)	proportional	
			202 - 221 Forwards gobo wheel 1 rotation from fast to slow	proportional	
			222 - 223 No rotation		
			224 - 243 Backwards gobo wheel 1 rotation from slow to fast	proportional	
			244 - 249 Random gobo 1 selection by audio control (Set microphone sensitivity in menu „Personality“)	step	
			250 - 255 Auto random gobo 1 selection from fast to slow	proportional	
14	18	9	0 - 255	<b>Gobo 1 indexing and rotation</b> <b>Gobo indexing - set position on channel 13 (17;8)</b> Gobo indexing	proportional
			0	<b>Gobo rotation - set position on channel 13 (17;8)</b> No rotation	step
			1 - 127	Forwards gobo rotation from fast to slow	proportional
			128 - 129	No rotation	step
			130 - 255	Backwards gobo rotation from slow to fast	proportional
	19	10	0 - 255	<b>Gobo 1 fine indexing and rotation</b> <b>(set position on channel 13 (17;8))</b> Fine indexing (rotating)	proportional
15	20	11	0 - 9	<b>Rotating gobo wheel 2</b> <b>Index - set indexing on channel(s) 16 (21, 22;12,13)</b> Open/hole	step
			10 - 13	Gobo 1 - Diamante Spot(15040020)	step
			14 - 17	Gobo 2 - Wheel (15020126)	step
			18 - 21	Gobo 3 - Space Tunel (15020127)	step
			22 - 25	Gobo 4 - Bubbles 1 (15020128)	step
			26 - 29	Gobo 5 - 12 Dots (15020129)	step
			30 - 33	Gobo 6 - Radial Dashes (15020130)	step
			34 - 37	<b>Rotation - set rotation on channel(s) 16 (21, 22;12,13)</b> Gobo 1 - Diamante Spot (15040020)	step
			38 - 41	Gobo 2 - Wheel (15020126)	step
			42 - 45	Gobo 3 - Space Tunel (15020127)	step
			46 - 49	Gobo 4 - Bubbles 1 (15020128)	step
			50 - 53	Gobo 5 - 12 Dots (15020129)	step
			54 - 57	Gobo 6 - Radial Dashes (15020130)	step
			58 - 69	<b>Shaking gobos from slow to fast</b> <b>Index - set indexing on channel(s) 16 (21, 22;12,13)</b> Gobo 1 - Diamente Spot (15040020)	proportional
70 - 81	Gobo 2 - Wheel (15020126)	proportional			
82 - 93	Gobo 3 - Space Tunel (15020127)	proportional			
94 - 105	Gobo 4 - Bubbles 1 (15020128)	proportional			
106 - 117	Gobo 5 - 12 Dots (15020129)	proportional			
118 - 129	Gobo 6 - Radial Dashes(15020130)	proportional			



Mode / Channel			Value	Function	Type of control
1	2	3			
	25		0 - 255	<b>Fine effect indexing and rotation (set position on channel 17 (23))</b> Fine indexing (rotating)	proportional
19	26		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 proportional proportional proportional
20	27	16	0 1 - 179 180 - 191  192 - 203 204 - 215 216 - 217 218 - 219 220 - 221 222 - 223  224 - 239 240 - 255	<b>Iris</b> Open From max. diameter to min. diameter Closed <b>Pulse effects with Iris blackout</b> 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) <b>Pulse effects with Iris blackout and zoom</b> Pulse opening from slow to fast Pulse closing from fast to slow	step proportional step  proportional proportional step step step step  proportional proportional
21	28	18	0 - 255	<b>Zoom</b> Zoom from max. to min	proportional
22	29	17	0 - 255	<b>Focus</b> Continuous adjustment from far to near	proportional
23	30	1	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 800W Shutter open, Full lamp power Strobe-effect from slow to fast (max.15 ashes/s) Shutter open, Lamp power reduced to 800 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
24	31	2	0 - 255	<b>Dimmer intensity</b> Dimmer intensity from 0% to 100%	proportional
	32		0 - 255	<b>Fine dimmer intensity</b> Dimmer intensity fine	proportional