

## ColorWash 250 AT-DMX Protocol-version 1.0

Mode/Channel				Value	Function	Type of control
1	2	3	4			
1	1	1	1	0 - 255	<b>Pan</b> Pan movement by 530°	proportional
2	2	2	2	0 - 255	<b>Pan Fine</b> Fine control of pan movement	proportional
3	3	3	3	0 - 255	<b>Tilt</b> Tilt movement by 280°	proportional
4	4	4	4	0 - 255	<b>Tilt fine</b> Fine control of tilt movement	proportional
5	5	5	5	0	<b>Pan/Tilt speed , Pan/Tilt time</b> Max. speed (tracking mode)	step
				1 - 255	<b><i>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</i></b> Speed from max. to min. (vector mode)	proportional
				1 - 255	<b><i>P./T. time - set Time Mode in menu: Pan/Tilt Mode</i></b> Time from 0,1 s to 25,5 s. *	proportional
6	6	6	6	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 16 (15,18,20) must be at range: 0-31 DMX). **</i>	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 - 129	Reserved <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	Reserved	step
				170 - 179	Dimmer/Strobe reset	step
				180 - 189	Zoom/effect wheel reset	step
				190 - 199	Reserved	step
				200 - 209	Total reset	step
210 - 229	Reserved	step				
230 - 239	Lamp Off	step				
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) to 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			
7	7	9	9	0	<b>Colour wheel</b> <b><i>Continual positioning</i></b> Open/white	proportional
				18	Dark red	proportional
				36	Dark blue	proportional
				54	Green	proportional
				72	CTF 3200K	proportional
				90	CTF 6000K	proportional
				108	UV filter	proportional
				128-129	White	proportional
				130-139	<b><i>Positioning</i></b> Dark red	step
				140-149	Dark blue	step
				150-159	Green	step
				160-169	CTF 3200K	step
				170-179	CTF 6000K	step
180-189	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				
8		10		0 - 255	<b>Colour wheel - fine positioning</b> Fine positioning	proportional
9	8	11	10	0 - 255	<b>Cyan</b> Cyan (0-white, 255-full cyan)	proportional
10	9	12	11	0 - 255	<b>Magenta</b> Magenta (0-white, 255-full magenta)	proportional
11	10	13	12	0 - 255	<b>Yellow</b> Yellow (0-white, 255-full yellow)	proportional
12	11	14	13	0 - 255	<b>Speed of CMY + dimmer</b> Speed from max. (0) to min.(255)	proportional
13	12	15	14	0 - 7	<b>CMY colour macros</b> No function	step
				8 - 15	Macro 1	step
				16 -23	Macro 2	step
				24-31	Macro 3	step
				32-39	Macro 4	step
				40-47	Macro 5	step
				48-55	Macro 6	step
				56-63	Macro 7	step
				64-71	Macro 8	step
				72-79	Macro 9	step
				80-87	Macro 10	step
				88-95	Macro 11	step
				96-103	Macro 12	step
				104-111	Macro 13	step
				112-119	Macro 14	step
				120-127	Macro 15	step
				128-135	Macro 16	step
				136-143	Macro 17	step
				144-151	Macro 18	step
				152-159	Macro 19	step
				160-167	Macro 20	step
				168-175	Macro 21	step
176-183	Macro 22	step				

Mode/Channel				Value	Function	Type of control
1	2	3	4			
13	12	15	14	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
14	13	16	15	0-70	<b>Effect wheel</b> Full beam	step
				71-179	Beam shaper	proportional
				180-199	Swivelling beam effect from slow to fast	proportional
				200-255	Frost filter	step
15	14	17	16	0 - 255	<b>Zoom</b> Coarse zoom from min. to max.beam angle	proportional
16	15	18	17	0 - 31	<b>Shutter, strobe</b> Shutter closed,	step
				32 - 63	Shutter open,	step
				64 - 95	Strobe-effect from slow to fast (max.15 ashes/s)	proportional
				96 - 127	Shutter open,	step
				128 - 143	Opening pulse in sequences from slow to fast	proportional
				144 - 159	Closing pulse in sequences from fast to slow	proportional
				160 - 191	Shutter open	step
				192 - 223	Random strobe-effect from slow to fast	proportional
224 - 255	Shutter open	step				
17	16	19	18	0 - 255	<b>Dimmer intensity</b> Dimmer intensity from 0% to 100%	proportional
18		20		0 - 255	<b>Fine dimmer intensity</b> Dimmer intensity fine	proportional

**Notes:**

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