

## Single Control Values

Tour (47CH)	Channel	Function	Value	Percent/Setting
	1	<b>Pan</b>	000ó255	0–100%
	2	<b>Fine Pan</b>	000ó255	0–100%
	3	<b>Continuous Pan</b>	000	No function
			001ó127	Counterclockwise rotation, slow to fast
			128	Stop
			129ó255	Clockwise rotation, slow to fast
	4	<b>Tilt Macro</b>	000ó047	No function
			048ó055	Tilt macro 1
			056ó063	Tilt macro 2
			064ó071	Tilt macro 3
			072ó079	Tilt macro 4
			080ó087	Tilt macro 5
			088ó095	Tilt macro 6
			096ó103	Tilt macro 7
			104ó111	Tilt macro 8
			112ó119	Tilt macro 9
			120ó127	Tilt macro 10
			128ó135	Tilt macro 11
			136ó143	Tilt macro 12
			144ó151	Tilt macro 13
			152ó159	Tilt macro 14
			160ó167	Tilt macro 15
		168ó175	Tilt macro 16	
		176ó183	Tilt macro 17	
		184ó191	Tilt macro 18	
		192ó199	Tilt macro 19	
		200ó207	Tilt macro 20	
		208ó215	Tilt macro 21	
		216ó223	Tilt macro 22	
		224ó231	Tilt macro 23	
		232ó239	Tilt macro 24	
		240ó247	Tilt macro 25	
		248ó255	Tilt macro 26	
	5	<b>Tilt Macro Speed</b>	000ó255	Fast to slow

Tour (47CH cont.)	Channel	Function	Value	Percent/Setting
6	Control		000 009	No function
			010 014	Manual tilt blackout
			015 019	Cancel manual tilt blackout
			020 024	1 fixture macro
			025 029	2 fixture macro 1
			030 034	2 fixture macro 2
			035 039	4 fixture macro 1
			040 044	4 fixture macro 2
			045 049	4 fixture macro 3
			050 054	4 fixture macro 4
			055 059	Pan reset
			060 064	Tilt reset
			065 069	No function (reserved for future use)
			070 074	Reset all
			075 079	No function (reserved for future use)
			080 084	Pan/Tilt reverse
			085 089	Pan reverse
			090 094	Tilt reverse
			095 099	Cancel pan reverse
			100 104	Cancel tilt reverse
			105 109	Cancel pan/tilt reverse
			110 114	No function (reserved for future use)
			115 119	Link all heads to head 1
			120 124	Unlink all heads from head 1
			125 129	No function (reserved for future use)
	130 134	No function (reserved for future use)		
	135 139	Dimmer speed mode fast		
	140 144	Dimmer speed mode smooth		
	145 255	No function		
7	Dimmer		000 255	0–100%
8	Shutter		000 019	Off
			020 024	On
			025 064	Strobe 1, fast to slow
			065 069	On
			070 084	Strobe 2 (Fast on, slow off) fast to slow
			085 089	On
			090 104	Strobe 3 (Slow on, fast off) fast to slow
			105 109	On
			110 124	Strobe 4 (Random) fast to slow
			125 129	On
			130 144	Strobe 5 (Random fast on, slow off) fast to slow
			145 149	On
			150 164	Strobe 6 (Random slow on, fast off) fast to slow
			165 169	On
			170 184	Strobe 7 (Pulse) fast to slow
			185 189	On
			190 204	Strobe 8 (Random pulse) fast to slow
			205 209	On
			210 224	Strobe 9 (Fade in, fade out) fast to slow
			225 229	On
	230 244	Strobe 10 (Random pulse) fast to slow		
	245 255	On		

Tour (47CH cont.)	Channel	Function	Value	Percent/Setting
			000 ∘ 013	No function
			014 ∘ 020	Color 1
			021 ∘ 028	Color 2
			029 ∘ 036	Color 3
			037 ∘ 044	Color 4
			045 ∘ 052	Color 5
			053 ∘ 060	Color 6
			061 ∘ 068	Color 7
			069 ∘ 076	Color 8
			077 ∘ 084	Color 9
			085 ∘ 092	Color 10
			093 ∘ 100	Color 11
			101 ∘ 108	Color 12
			109 ∘ 116	Color 13
			117 ∘ 124	Color 14
			125 ∘ 133	Color 15
			134 ∘ 185	No function
			186 ∘ 207	Rainbow effect, fast to slow
			208 ∘ 213	Stop
			214 ∘ 235	Reverse Rainbow effect, fast to slow
			236 ∘ 240	No function
			241 ∘ 255	Color jump, fast to slow
	9	Color Macro		

Tour (47CH cont.)	Channel	Function	Value	Percent/Setting				
				Head 1	Head 2	Head 3	Head 4	Head 5
			000 005	●	●	●	●	●
			006 011	○	●	●	●	●
			012 017	○	○	●	●	●
			018 023	○	○	○	●	●
			024 029	○	○	○	○	●
			030 035	○	○	○	○	○
			036 041	●	○	○	○	○
			042 047	●	●	○	○	○
			048 053	●	●	●	○	○
			054 059	●	●	●	●	○
			060 065	●	●	●	●	●
			066 071	○	○	○	○	○
			072 077	●	○	○	○	○
			078 083	○	●	○	○	○
			084 089	○	○	●	○	○
			090 095	○	○	○	●	○
			096 101	○	○	○	○	●
			102 107	○	○	○	○	○
			108 113	●	●	○	○	○
			114 119	○	●	●	○	○
			120 125	○	○	●	●	○
			126 131	○	○	○	●	●
			132 137	●	○	○	○	●
			138 143	○	○	○	○	○
			144 149	○	●	●	●	●
			150 155	●	○	●	●	●
			156 161	●	●	○	●	●
			162 167	●	●	●	○	●
			168 173	●	●	●	●	○
			174 179	○	○	○	○	○
			180 185	○	○	○	○	●
			186 191	○	○	○	●	●
			192 197	○	○	●	●	●
			198 203	○	●	●	●	●
			204 209	●	●	●	●	●
			210 215	○	○	○	○	○
			216 221	●	●	●	○	○
			222 227	○	●	●	●	○
			228 233	○	○	●	●	●
			234 239	●	○	○	●	●
			240 245	●	●	○	○	●
			246 255	●	●	●	●	●

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**On/Off Preset**  
(● = on; ○ = off)

Tour (47CH cont.)	Channel	Function	Value	Percent/Setting
11	LED Macro/ Auto Program	000	015	No function
		016	020	LED Macro 1
		021	025	LED Macro 2
		026	030	LED Macro 3
		031	035	LED Macro 4
		036	040	LED Macro 5
		041	045	LED Macro 6
		046	050	LED Macro 7
		051	055	LED Macro 8
		056	060	LED Macro 9
		061	065	LED Macro 10
		066	070	LED Macro 11
		071	075	LED Macro 12
		076	080	LED Macro 13
		081	085	LED Macro 14
		086	090	LED Macro 15
		091	095	LED Macro 16
		096	100	LED Macro 17
		101	105	LED Macro 18
		106	110	LED Macro 19
		111	115	LED Macro 20
		116	120	LED Macro 21
		121	125	LED Macro 22
		126	130	LED Macro 23
		131	135	LED Macro 24 (cycle 1–23)
		136	140	Auto program 1
		141	145	Auto program 2
		146	150	Auto program 3
		151	155	Auto program 4
		156	160	Auto program 5
		161	165	Auto program 6
166	170	Auto program 7		
171	175	Auto program 8		
176	180	Auto program 9		
181	185	Auto program 10		
186	190	Auto program 11		
191	195	Auto program 12		
196	200	Auto program 13		
201	205	Auto program 14		
206	210	Auto program 15		
211	215	Auto program 16		
216	220	Auto program 17		
221	225	Auto program 18		
226	230	Auto program 19		
231	235	Auto program 20		
236	240	Auto program 21		
241	245	Auto program 22		
246	250	Auto program 23		
251	255	Auto program 24 (cycle 1–23)		
12	LED Macro Speed	000	255	Slow to fast

Tour (47CH cont.)	Channel	Function	Value	Percent/Setting
	13	Tilt 1	000○ 255	0–100%
	14	Fine Tilt 1	000○ 255	0–100%
	15	Continuous Tilt 1	000	No function
			001○ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129○ 255	Clockwise rotation, slow to fast
	16	Head 1 Red	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	17	Head 1 Green	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	18	Head 1 Blue	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	19	Head 1 White	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	20	Tilt 2	000○ 255	0–100%
	21	Fine Tilt 2	000○ 255	0–100%
	22	Continuous Tilt 2	000	No function
			001○ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129○ 255	Clockwise rotation, slow to fast
	23	Head 2 Red	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	24	Head 2 Green	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	25	Head 2 Blue	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	26	Head 2 White	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	27	Tilt 3	000○ 255	0–100%
	28	Fine Tilt 3	000○ 255	0–100%
	29	Continuous Tilt 3	000	No function
			001○ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129○ 255	Clockwise rotation, slow to fast
	30	Head 3 Red	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	31	Head 3 Green	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	32	Head 3 Blue	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	33	Head 3 White	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	34	Tilt 4	000○ 255	0–100%
	35	Fine Tilt 4	000○ 255	0–100%
	36	Continuous Tilt 4	000	No function
			001○ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129○ 255	Clockwise rotation, slow to fast
	37	Head 4 Red	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	38	Head 4 Green	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	39	Head 4 Blue	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	40	Head 4 White	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	41	Tilt 5	000○ 255	0–100%
	42	Fine Tilt 5	000○ 255	0–100%
	43	Continuous Tilt 5	000	No function
			001○ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129○ 255	Clockwise rotation, slow to fast
	44	Head 5 Red	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	45	Head 5 Green	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	46	Head 5 Blue	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	47	Head 5 White	000○ 255	RGBW mode: 0–100% / CMY mode: 100%–0

<b>Advanced Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(47CH)	1	Pan	000 ∘ 255	0–100%
	2	Fine Pan	000 ∘ 255	0–100%
	3	Continuous Pan	000	No function
			001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop
			129 ∘ 255	Clockwise rotation, slow to fast
	4	Tilt 1	000 ∘ 255	0–100%
	5	Fine Tilt 1	000 ∘ 255	0–100%
	6	Tilt 2	000 ∘ 255	0–100%
	7	Fine Tilt 2	000 ∘ 255	0–100%
	8	Tilt 3	000 ∘ 255	0–100%
	9	Fine Tilt 3	000 ∘ 255	0–100%
	10	Tilt 4	000 ∘ 255	0–100%
	11	Fine Tilt 4	000 ∘ 255	0–100%
12	Tilt 5	000 ∘ 255	0–100%	
13	Fine Tilt 5	000 ∘ 255	0–100%	
14	Continuous Tilt 1	000	No function	
		001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
15	Continuous Tilt 2	000	No function	
		001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
16	Continuous Tilt 3	000	No function	
		001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
17	Continuous Tilt 4	000	No function	
		001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
18	Continuous Tilt 5	000	No function	
		001 ∘ 127 128	Counterclockwise rotation, slow to fast Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	

Advanced Mode	Channel	Function	Value	Percent/Setting
(47CH cont.)	19	Tilt Macro	000 047	No function
			048 055	Tilt macro 1
			056 063	Tilt macro 2
			064 071	Tilt macro 3
			072 079	Tilt macro 4
			080 087	Tilt macro 5
			088 095	Tilt macro 6
			096 103	Tilt macro 7
			104 111	Tilt macro 8
			112 119	Tilt macro 9
			120 127	Tilt macro 10
			128 135	Tilt macro 11
			136 143	Tilt macro 12
			144 151	Tilt macro 13
			152 159	Tilt macro 14
			160 167	Tilt macro 15
			168 175	Tilt macro 16
			176 183	Tilt macro 17
			184 191	Tilt macro 18
			192 199	Tilt macro 19
			200 207	Tilt macro 20
			208 215	Tilt macro 21
			216 223	Tilt macro 22
			224 231	Tilt macro 23
			232 239	Tilt macro 24
			240 247	Tilt macro 25
248 255	Tilt macro 26			
20	Tilt Macro Speed	000 255	Fast to slow	



Advanced Mode	Channel	Function	Value	Percent/Setting
(47CH cont.)	21	Control	000 ∘ 009	No function
			010 ∘ 014	Manual tilt blackout
			015 ∘ 019	Cancel manual tilt blackout
			020 ∘ 024	1 fixture macro
			025 ∘ 029	2 fixture macro 1
			030 ∘ 034	2 fixture macro 2
			035 ∘ 039	4 fixture macro 1
			040 ∘ 044	4 fixture macro 2
			045 ∘ 049	4 fixture macro 3
			050 ∘ 054	4 fixture macro 4
			055 ∘ 059	Pan reset
			060 ∘ 064	Tilt reset
			065 ∘ 069	No function (reserved for future use)
			070 ∘ 074	Reset all
			075 ∘ 079	No function (reserved for future use)
			080 ∘ 084	Pan/Tilt reverse
			085 ∘ 089	Pan reverse
			090 ∘ 094	Tilt reverse
			095 ∘ 099	Cancel pan reverse
			100 ∘ 104	Cancel tilt reverse
			105 ∘ 109	Cancel pan/tilt reverse
110 ∘ 114	No function (reserved for future use)			
115 ∘ 119	Link all heads to head 1			
120 ∘ 124	Unlink all heads from head 1			
125 ∘ 129	No function (reserved for future use)			
130 ∘ 134	No function (reserved for future use)			
135 ∘ 139	Dimmer speed mode fast			
140 ∘ 144	Dimmer speed mode smooth			
145 ∘ 255	No function			
22	Dimmer		000 ∘ 255	0–100%
	23	Shutter	000 ∘ 019	Off
			020 ∘ 024	On
			025 ∘ 064	Strobe 1, fast to slow
			065 ∘ 069	On
			070 ∘ 084	Strobe 2 (Fast on, slow off) fast to slow
			085 ∘ 089	On
			090 ∘ 104	Strobe 3 (Slow on, fast off) fast to slow
			105 ∘ 109	On
			110 ∘ 124	Strobe 4 (Random) fast to slow
			125 ∘ 129	On
			130 ∘ 144	Strobe 5 (Random fast on, slow off) fast to slow
			145 ∘ 149	On
			150 ∘ 164	Strobe 6 (Random slow on, fast off) fast to slow
			165 ∘ 169	On
			170 ∘ 184	Strobe 7 (Pulse) fast to slow
			185 ∘ 189	On
			190 ∘ 204	Strobe 8 (Random pulse) fast to slow
			205 ∘ 209	On
			210 ∘ 224	Strobe 9 (Fade in, fade out) fast to slow
			225 ∘ 229	On
230 ∘ 244	Strobe 10 (Random pulse) fast to slow			
245 ∘ 255	On			

Advanced Mode	Channel	Function	Value	Percent/Setting
(47CH cont.)	24	Color Macro	000 013	No function
			014 020	Color 1
			021 028	Color 2
			029 036	Color 3
			037 044	Color 4
			045 052	Color 5
			053 060	Color 6
			061 068	Color 7
			069 076	Color 8
			077 084	Color 9
			085 092	Color 10
			093 100	Color 11
			101 108	Color 12
			109 116	Color 13
			117 124	Color 14
			125 133	Color 15
			134 185	No function
			186 207	Rainbow effect, fast to slow
			208 213	Stop
			214 235	Reverse Rainbow effect, fast to slow
			236 240	No function
			241 255	Color jump, fast to slow

Advanced Mode (47CH cont.)	Channel	Function	Value	Percent/Setting				
				Head 1	Head 2	Head 3	Head 4	Head 5
			000 005	●	●	●	●	●
			006 011	○	●	●	●	●
			012 017	○	○	●	●	●
			018 023	○	○	○	●	●
			024 029	○	○	○	○	●
			030 035	○	○	○	○	○
			036 041	●	○	○	○	○
			042 047	●	●	○	○	○
			048 053	●	●	●	○	○
			054 059	●	●	●	●	○
			060 065	●	●	●	●	●
			066 071	○	○	○	○	○
			072 077	●	○	○	○	○
			078 083	○	●	○	○	○
			084 089	○	○	●	○	○
			090 095	○	○	○	●	○
			096 101	○	○	○	○	●
			102 107	○	○	○	○	○
			108 113	●	●	○	○	○
			114 119	○	●	●	○	○
			120 125	○	○	●	●	○
			126 131	○	○	○	●	●
			132 137	●	○	○	○	●
			138 143	○	○	○	○	○
			144 149	○	●	●	●	●
			150 155	●	○	●	●	●
			156 161	●	●	○	●	●
			162 167	●	●	●	○	●
			168 173	●	●	●	●	○
			174 179	○	○	○	○	○
			180 185	○	○	○	○	●
			186 191	○	○	○	●	●
			192 197	○	○	●	●	●
			198 203	○	●	●	●	●
			204 209	●	●	●	●	●
			210 215	○	○	○	○	○
			216 221	●	●	●	○	○
			222 227	○	●	●	●	○
			228 233	○	○	●	●	●
			234 239	●	○	○	●	●
			240 245	●	●	○	○	●
			246 255	●	●	●	●	●

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**On/Off Preset**  
(● = on; ○ = off)

Advanced Mode	Channel	Function	Value	Percent/Setting
(47CH cont.)	26	LED Macro/ Auto Program	000 015	No function
			016 020	LED Macro 1
			021 025	LED Macro 2
			026 030	LED Macro 3
			031 035	LED Macro 4
			036 040	LED Macro 5
			041 045	LED Macro 6
			046 050	LED Macro 7
			051 055	LED Macro 8
			056 060	LED Macro 9
			061 065	LED Macro 10
			066 070	LED Macro 11
			071 075	LED Macro 12
			076 080	LED Macro 13
			081 085	LED Macro 14
			086 090	LED Macro 15
			091 095	LED Macro 16
			096 100	LED Macro 17
			101 105	LED Macro 18
			106 110	LED Macro 19
			111 115	LED Macro 20
			116 120	LED Macro 21
			121 125	LED Macro 22
			126 130	LED Macro 23
			131 135	LED Macro 24 (cycle 1–23)
			136 140	Auto program 1
			141 145	Auto program 2
			146 150	Auto program 3
			151 155	Auto program 4
			156 160	Auto program 5
			161 165	Auto program 6
			166 170	Auto program 7
			171 175	Auto program 8
			176 180	Auto program 9
			181 185	Auto program 10
			186 190	Auto program 11
			191 195	Auto program 12
			196 200	Auto program 13
			201 205	Auto program 14
			206 210	Auto program 15
			211 215	Auto program 16
			216 220	Auto program 17
			221 225	Auto program 18
			226 230	Auto program 19
			231 235	Auto program 20
			236 240	Auto program 21
			241 245	Auto program 22
246 250	Auto program 23			
251 255	Auto program 24 (cycle 1–23)			
27	LED Macro Speed	000 0255	Slow to fast	

<b>Advanced Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(47CH cont.)	28	Head 1 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	29	Head 1 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	30	Head 1 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	31	Head 1 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	32	Head 2 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	33	Head 2 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	34	Head 2 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	35	Head 2 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	36	Head 3 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	37	Head 3 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	38	Head 3 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	39	Head 3 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	40	Head 4 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	41	Head 4 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	42	Head 4 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
43	Head 4 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0	
44	Head 5 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0	
45	Head 5 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0	
46	Head 5 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0	
47	Head 5 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0	

Standard Mode	Channel	Function	Value	Percent/Setting
(25CH)	1	Pan	000○255	0–100%
	2	Continuous Pan	000	No function
			001○127	Counterclockwise rotation, slow to fast
			128	Stop
	3	Tilt 1	129○255	Clockwise rotation, slow to fast
			000○255	0–100%
			000○255	0–100%
	4	Tilt 2	000○255	0–100%
	5	Tilt 3	000○255	0–100%
	6	Tilt 4	000○255	0–100%
	7	Tilt 5	000○255	0–100%
	8	Continuous Tilt 1	000	No function
001○127			Counterclockwise rotation, slow to fast	
128			Stop	
129○255			Clockwise rotation, slow to fast	
9	Continuous Tilt 2	000	No function	
		001○127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129○255	Clockwise rotation, slow to fast	
10	Continuous Tilt 3	000	No function	
		001○127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129○255	Clockwise rotation, slow to fast	
11	Continuous Tilt 4	000	No function	
		001○127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129○255	Clockwise rotation, slow to fast	
12	Continuous Tilt 5	000	No function	
		001○127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129○255	Clockwise rotation, slow to fast	

Standard Mode	Channel	Function	Value	Percent/Setting
(25CH cont.)	13	Tilt Macro	000ó 047	No function
			048ó 055	Tilt macro 1
			056ó 063	Tilt macro 2
			064ó 071	Tilt macro 3
			072ó 079	Tilt macro 4
			080ó 087	Tilt macro 5
			088ó 095	Tilt macro 6
			096ó 103	Tilt macro 7
			104ó 111	Tilt macro 8
			112ó 119	Tilt macro 9
			120ó 127	Tilt macro 10
			128ó 135	Tilt macro 11
			136ó 143	Tilt macro 12
			144ó 151	Tilt macro 13
			152ó 159	Tilt macro 14
			160ó 167	Tilt macro 15
			168ó 175	Tilt macro 16
			176ó 183	Tilt macro 17
			184ó 191	Tilt macro 18
			192ó 199	Tilt macro 19
			200ó 207	Tilt macro 20
			208ó 215	Tilt macro 21
			216ó 223	Tilt macro 22
			224ó 231	Tilt macro 23
			232ó 239	Tilt macro 24
			240ó 247	Tilt macro 25
248ó 255	Tilt macro 26			
14	Tilt Macro Speed	000ó 255	Fast to slow	

Standard Mode	Channel	Function	Value	Percent/Setting
(25CH cont.)	15	Control	000 009	No function
			010 014	Manual tilt blackout
			015 019	Cancel manual tilt blackout
			020 024	1 fixture macro
			025 029	2 fixture macro 1
			030 034	2 fixture macro 2
			035 039	4 fixture macro 1
			040 044	4 fixture macro 2
			045 049	4 fixture macro 3
			050 054	4 fixture macro 4
			055 059	Pan reset
			060 064	Tilt reset
			065 069	No function (reserved for future use)
			070 074	Reset all
			075 079	No function (reserved for future use)
			080 084	Pan/Tilt reverse
			085 089	Pan reverse
			090 094	Tilt reverse
			095 099	Cancel pan reverse
			100 104	Cancel tilt reverse
			105 109	Cancel pan/tilt reverse
			110 114	No function (reserved for future use)
			115 119	Link all heads to head 1
			120 124	Unlink all heads from head 1
			125 129	No function (reserved for future use)
130 134	No function (reserved for future use)			
135 139	Dimmer speed mode fast			
140 144	Dimmer speed mode smooth			
145 255	No function			
16	Dimmer		000 255	0–100%
	17	Shutter	000 019	Off
			020 024	On
			025 064	Strobe 1, fast to slow
			065 069	On
			070 084	Strobe 2 (Fast on, slow off) fast to slow
			085 089	On
			090 104	Strobe 3 (Slow on, fast off) fast to slow
			105 109	On
			110 124	Strobe 4 (Random) fast to slow
			125 129	On
			130 144	Strobe 5 (Random fast on, slow off) fast to slow
			145 149	On
			150 164	Strobe 6 (Random slow on, fast off) fast to slow
			165 169	On
			170 184	Strobe 7 (Pulse) fast to slow
			185 189	On
			190 204	Strobe 8 (Random pulse) fast to slow
			205 209	On
			210 224	Strobe 9 (Fade in, fade out) fast to slow
			225 229	On
230 244	Strobe 10 (Random pulse) fast to slow			
245 255	On			



Standard Mode	Channel	Function	Value	Percent/Setting
(25CH cont.)	18	Color Macro	000 ∘ 013	No function
			014 ∘ 020	Color 1
			021 ∘ 028	Color 2
			029 ∘ 036	Color 3
			037 ∘ 044	Color 4
			045 ∘ 052	Color 5
			053 ∘ 060	Color 6
			061 ∘ 068	Color 7
			069 ∘ 076	Color 8
			077 ∘ 084	Color 9
			085 ∘ 092	Color 10
			093 ∘ 100	Color 11
			101 ∘ 108	Color 12
			109 ∘ 116	Color 13
			117 ∘ 124	Color 14
			125 ∘ 133	Color 15
			134 ∘ 185	No function
			186 ∘ 207	Rainbow effect, fast to slow
			208 ∘ 213	Stop
			214 ∘ 235	Reverse Rainbow effect, fast to slow
			236 ∘ 240	No function
			241 ∘ 255	Color jump, fast to slow

Standard Mode (25CH cont.)	Channel	Function	Value	Percent/Setting				
				Head 1	Head 2	Head 3	Head 4	Head 5
			000 005	●	●	●	●	●
			006 011	○	●	●	●	●
			012 017	○	○	●	●	●
			018 023	○	○	○	●	●
			024 029	○	○	○	○	●
			030 035	○	○	○	○	○
			036 041	●	○	○	○	○
			042 047	●	●	○	○	○
			048 053	●	●	●	○	○
			054 059	●	●	●	●	○
			060 065	●	●	●	●	●
			066 071	○	○	○	○	○
			072 077	●	○	○	○	○
			078 083	○	●	○	○	○
			084 089	○	○	●	○	○
			090 095	○	○	○	●	○
			096 101	○	○	○	○	●
			102 107	○	○	○	○	○
			108 113	●	●	○	○	○
			114 119	○	●	●	○	○
			120 125	○	○	●	●	○
			126 131	○	○	○	○	●
			132 137	●	○	○	○	●
			138 143	○	○	○	○	○
			144 149	○	●	●	●	●
			150 155	●	○	●	●	●
			156 161	●	●	○	●	●
			162 167	●	●	●	○	●
			168 173	●	●	●	●	○
			174 179	○	○	○	○	○
			180 185	○	○	○	○	●
			186 191	○	○	○	●	●
			192 197	○	○	●	●	●
			198 203	○	●	●	●	●
			204 209	●	●	●	●	●
			210 215	○	○	○	○	○
			216 221	●	●	●	○	○
			222 227	○	●	●	●	○
			228 233	○	○	●	●	●
			234 239	●	○	○	●	●
			240 245	●	●	○	○	●
			246 255	●	●	●	●	●

19 On/Off Preset  
(● = on; ○ = off)

Standard Mode	Channel	Function	Value	Percent/Setting
(25CH cont.)	20	<b>LED Macro/ Auto Program</b>	000 ∘ 015	No function
			016 ∘ 020	LED Macro 1
			021 ∘ 025	LED Macro 2
			026 ∘ 030	LED Macro 3
			031 ∘ 035	LED Macro 4
			036 ∘ 040	LED Macro 5
			041 ∘ 045	LED Macro 6
			046 ∘ 050	LED Macro 7
			051 ∘ 055	LED Macro 8
			056 ∘ 060	LED Macro 9
			061 ∘ 065	LED Macro 10
			066 ∘ 070	LED Macro 11
			071 ∘ 075	LED Macro 12
			076 ∘ 080	LED Macro 13
			081 ∘ 085	LED Macro 14
			086 ∘ 090	LED Macro 15
			091 ∘ 095	LED Macro 16
			096 ∘ 100	LED Macro 17
			101 ∘ 105	LED Macro 18
			106 ∘ 110	LED Macro 19
			111 ∘ 115	LED Macro 20
			116 ∘ 120	LED Macro 21
			121 ∘ 125	LED Macro 22
			126 ∘ 130	LED Macro 23
			131 ∘ 135	LED Macro 24 (cycle 1–23)
136 ∘ 140	Auto program 1			
141 ∘ 145	Auto program 2			
146 ∘ 150	Auto program 3			
151 ∘ 155	Auto program 4			
156 ∘ 160	Auto program 5			
161 ∘ 165	Auto program 6			
166 ∘ 170	Auto program 7			
171 ∘ 175	Auto program 8			
176 ∘ 180	Auto program 9			
181 ∘ 185	Auto program 10			
186 ∘ 190	Auto program 11			
191 ∘ 195	Auto program 12			
196 ∘ 200	Auto program 13			
201 ∘ 205	Auto program 14			
206 ∘ 210	Auto program 15			
211 ∘ 215	Auto program 16			
216 ∘ 220	Auto program 17			
221 ∘ 225	Auto program 18			
226 ∘ 230	Auto program 19			
231 ∘ 235	Auto program 20			
236 ∘ 240	Auto program 21			
241 ∘ 245	Auto program 22			
246 ∘ 250	Auto program 23			
251 ∘ 255	Auto program 24 (cycle 1–23)			
21	<b>LED Macro Speed</b>	000 ∘ 255	Slow to fast	

<b>Standard Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(25CH cont.)	22	Red	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	23	Green	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	24	Blue	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	25	White	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0

<b>Basic Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(18CH)	1	Pan	000 ∘ 255	0–100%
	2	Continuous Pan	000	No function
			001 ∘ 127	Counterclockwise rotation, slow to fast
			128	Stop
	3	Tilt All	129 ∘ 255	Clockwise rotation, slow to fast
			000 ∘ 255	0–100%
			4	Continuous Tilt All
	001 ∘ 127	Counterclockwise rotation, slow to fast		
	128	Stop		
	5	Tilt Offset	129 ∘ 255	Clockwise rotation, slow to fast
			000 ∘ 255	Offset heads from each other, 0–360°
			6	Tilt Macro
	048 ∘ 055	Tilt macro 1		
	056 ∘ 063	Tilt macro 2		
	064 ∘ 071	Tilt macro 3		
	072 ∘ 079	Tilt macro 4		
	080 ∘ 087	Tilt macro 5		
	088 ∘ 095	Tilt macro 6		
	096 ∘ 103	Tilt macro 7		
	104 ∘ 111	Tilt macro 8		
	112 ∘ 119	Tilt macro 9		
120 ∘ 127	Tilt macro 10			
128 ∘ 135	Tilt macro 11			
136 ∘ 143	Tilt macro 12			
144 ∘ 151	Tilt macro 13			
152 ∘ 159	Tilt macro 14			
160 ∘ 167	Tilt macro 15			
168 ∘ 175	Tilt macro 16			
176 ∘ 183	Tilt macro 17			
184 ∘ 191	Tilt macro 18			
192 ∘ 199	Tilt macro 19			
200 ∘ 207	Tilt macro 20			
208 ∘ 215	Tilt macro 21			
216 ∘ 223	Tilt macro 22			
224 ∘ 231	Tilt macro 23			
232 ∘ 239	Tilt macro 24			
240 ∘ 247	Tilt macro 25			
248 ∘ 255	Tilt macro 26			
7	Tilt Macro Speed	000 ∘ 255	Fast to slow	

Basic Mode	Channel	Function	Value	Percent/Setting
(18CH cont.)	8	Control	000 ∘ 009	No function
			010 ∘ 014	Manual tilt blackout
			015 ∘ 019	Cancel manual tilt blackout
			020 ∘ 024	1 fixture macro
			025 ∘ 029	2 fixture macro 1
			030 ∘ 034	2 fixture macro 2
			035 ∘ 039	4 fixture macro 1
			040 ∘ 044	4 fixture macro 2
			045 ∘ 049	4 fixture macro 3
			050 ∘ 054	4 fixture macro 4
			055 ∘ 059	Pan reset
			060 ∘ 064	Tilt reset
			065 ∘ 069	No function (reserved for future use)
			070 ∘ 074	Reset all
			075 ∘ 079	No function (reserved for future use)
			080 ∘ 084	Pan/Tilt reverse
			085 ∘ 089	Pan reverse
			090 ∘ 094	Tilt reverse
			095 ∘ 099	Cancel pan reverse
			100 ∘ 104	Cancel tilt reverse
			105 ∘ 109	Cancel pan/tilt reverse
			110 ∘ 114	No function (reserved for future use)
			115 ∘ 119	Link all heads to head 1
			120 ∘ 124	Unlink all heads from head 1
			125 ∘ 129	No function (reserved for future use)
130 ∘ 134	No function (reserved for future use)			
135 ∘ 139	Dimmer speed mode fast			
140 ∘ 144	Dimmer speed mode smooth			
145 ∘ 255	No function			
9	Dimmer		000 ∘ 255	0–100%
	10	Shutter	000 ∘ 019	Off
			020 ∘ 024	On
			025 ∘ 064	Strobe 1, fast to slow
			065 ∘ 069	On
			070 ∘ 084	Strobe 2 (Fast on, slow off) fast to slow
			085 ∘ 089	On
			090 ∘ 104	Strobe 3 (Slow on, fast off) fast to slow
			105 ∘ 109	On
			110 ∘ 124	Strobe 4 (Random) fast to slow
			125 ∘ 129	On
			130 ∘ 144	Strobe 5 (Random fast on, slow off) fast to slow
			145 ∘ 149	On
			150 ∘ 164	Strobe 6 (Random slow on, fast off) fast to slow
			165 ∘ 169	On
			170 ∘ 184	Strobe 7 (Pulse) fast to slow
			185 ∘ 189	On
			190 ∘ 204	Strobe 8 (Random pulse) fast to slow
			205 ∘ 209	On
			210 ∘ 224	Strobe 9 (Fade in, fade out) fast to slow
			225 ∘ 229	On
230 ∘ 244	Strobe 10 (Random pulse) fast to slow			
245 ∘ 255	On			

Basic Mode	Channel	Function	Value	Percent/Setting
(18CH cont.)	11	Color Macro	000 013	No function
			014 020	Color 1
			021 028	Color 2
			029 036	Color 3
			037 044	Color 4
			045 052	Color 5
			053 060	Color 6
			061 068	Color 7
			069 076	Color 8
			077 084	Color 9
			085 092	Color 10
			093 100	Color 11
			101 108	Color 12
			109 116	Color 13
			117 124	Color 14
			125 133	Color 15
			134 185	No function
			186 207	Rainbow effect, fast to slow
			208 213	Stop
			214 235	Reverse Rainbow effect, fast to slow
			236 240	No function
			241 255	Color jump, fast to slow

Basic Mode (18CH cont.)	Channel	Function	Value	Percent/Setting				
				Head 1	Head 2	Head 3	Head 4	Head 5
			000ó005	●	●	●	●	●
			006ó011	○	●	●	●	●
			012ó017	○	○	●	●	●
			018ó023	○	○	○	●	●
			024ó029	○	○	○	○	●
			030ó035	○	○	○	○	○
			036ó041	●	○	○	○	○
			042ó047	●	●	○	○	○
			048ó053	●	●	●	○	○
			054ó059	●	●	●	●	○
			060ó065	●	●	●	●	●
			066ó071	○	○	○	○	○
			072ó077	●	○	○	○	○
			078ó083	○	●	○	○	○
			084ó089	○	○	●	○	○
			090ó095	○	○	○	●	○
			096ó101	○	○	○	○	●
			102ó107	○	○	○	○	○
			108ó113	●	●	○	○	○
			114ó119	○	●	●	○	○
			120ó125	○	○	●	●	○
			126ó131	○	○	○	●	●
			132ó137	●	○	○	○	●
			138ó143	○	○	○	○	○
			144ó149	○	●	●	●	●
			150ó155	●	○	●	●	●
			156ó161	●	●	○	●	●
			162ó167	●	●	●	○	●
			168ó173	●	●	●	●	○
			174ó179	○	○	○	○	○
			180ó185	○	○	○	○	●
			186ó191	○	○	○	●	●
			192ó197	○	○	●	●	●
			198ó203	○	●	●	●	●
			204ó209	●	●	●	●	●
			210ó215	○	○	○	○	○
			216ó221	●	●	●	○	○
			222ó227	○	●	●	●	○
			228ó233	○	○	●	●	●
			234ó239	●	○	○	●	●
			240ó245	●	●	○	○	●
			246ó255	●	●	●	●	●

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**On/Off Preset**  
(● = on; ○ = off)

Basic Mode	Channel	Function	Value	Percent/Setting
(18CH cont.)	13	LED Macro/ Auto Program	000 015	No function
			016 020	LED Macro 1
			021 025	LED Macro 2
			026 030	LED Macro 3
			031 035	LED Macro 4
			036 040	LED Macro 5
			041 045	LED Macro 6
			046 050	LED Macro 7
			051 055	LED Macro 8
			056 060	LED Macro 9
			061 065	LED Macro 10
			066 070	LED Macro 11
			071 075	LED Macro 12
			076 080	LED Macro 13
			081 085	LED Macro 14
			086 090	LED Macro 15
			091 095	LED Macro 16
			096 100	LED Macro 17
			101 105	LED Macro 18
			106 110	LED Macro 19
			111 115	LED Macro 20
			116 120	LED Macro 21
			121 125	LED Macro 22
			126 130	LED Macro 23
			131 135	LED Macro 24 (cycle 1–23)
			136 140	Auto program 1
			141 145	Auto program 2
			146 150	Auto program 3
			151 155	Auto program 4
			156 160	Auto program 5
			161 165	Auto program 6
			166 170	Auto program 7
			171 175	Auto program 8
			176 180	Auto program 9
			181 185	Auto program 10
			186 190	Auto program 11
			191 195	Auto program 12
			196 200	Auto program 13
			201 205	Auto program 14
			206 210	Auto program 15
			211 215	Auto program 16
			216 220	Auto program 17
			221 225	Auto program 18
			226 230	Auto program 19
			231 235	Auto program 20
			236 240	Auto program 21
			241 245	Auto program 22
246 250	Auto program 23			
251 255	Auto program 24 (cycle 1–23)			
14	LED Macro Speed	000 0255	Slow to fast	



<b>Basic Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(18CH cont.)	15	Red	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	16	Green	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	17	Blue	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0
	18	White	000 ∘ 255	RGBW mode: 0–100% / CMY mode: 100%–0

### Dual Control Movement Values

<b>Advanced Movement Mode</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
(23CH)	1	Pan	000 ∘ 255	0–100%
	2	Fine Pan	000 ∘ 255	0–100%
	3	Continuous Pan	000	No function
			001 ∘ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129 ∘ 255	Clockwise rotation, slow to fast
	4	Tilt 1	000 ∘ 255	0–100%
	5	Fine Tilt 1	000 ∘ 255	0–100%
	6	Tilt 2	000 ∘ 255	0–100%
	7	Fine Tilt 2	000 ∘ 255	0–100%
	8	Tilt 3	000 ∘ 255	0–100%
	9	Fine Tilt 3	000 ∘ 255	0–100%
	10	Tilt 4	000 ∘ 255	0–100%
	11	Fine Tilt 4	000 ∘ 255	0–100%
	12	Tilt 5	000 ∘ 255	0–100%
	13	Fine Tilt 5	000 ∘ 255	0–100%
	14	Continuous Tilt 1	000	No function
			001 ∘ 127	Counterclockwise rotation, slow to fast
	128		Stop	
	129 ∘ 255		Clockwise rotation, slow to fast	
15	Continuous Tilt 2	000	No function	
		001 ∘ 127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
16	Continuous Tilt 3	000	No function	
		001 ∘ 127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
17	Continuous Tilt 4	000	No function	
		001 ∘ 127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	
18	Continuous Tilt 5	000	No function	
		001 ∘ 127	Counterclockwise rotation, slow to fast	
		128	Stop	
		129 ∘ 255	Clockwise rotation, slow to fast	

Advanced Movement Mode	Channel	Function	Value	Percent/Setting
(23CH cont.)	19	Tilt Macro	000ó 047	No function
			048ó 055	Tilt macro 1
			056ó 063	Tilt macro 2
			064ó 071	Tilt macro 3
			072ó 079	Tilt macro 4
			080ó 087	Tilt macro 5
			088ó 095	Tilt macro 6
			096ó 103	Tilt macro 7
			104ó 111	Tilt macro 8
			112ó 119	Tilt macro 9
			120ó 127	Tilt macro 10
			128ó 135	Tilt macro 11
			136ó 143	Tilt macro 12
			144ó 151	Tilt macro 13
			152ó 159	Tilt macro 14
			160ó 167	Tilt macro 15
			168ó 175	Tilt macro 16
			176ó 183	Tilt macro 17
			184ó 191	Tilt macro 18
			192ó 199	Tilt macro 19
			200ó 207	Tilt macro 20
			208ó 215	Tilt macro 21
			216ó 223	Tilt macro 22
			224ó 231	Tilt macro 23
			232ó 239	Tilt macro 24
			240ó 247	Tilt macro 25
248ó 255	Tilt macro 26			
20	Tilt Macro Speed	000ó 255	Fast to slow	
21	Dimmer	000ó 255	0–100%	
	22	Shutter	000ó 019	Off
			020ó 024	On
			025ó 064	Strobe 1, fast to slow
			065ó 069	On
			070ó 084	Strobe 2 (Fast on, slow off) fast to slow
			085ó 089	On
			090ó 104	Strobe 3 (Slow on, fast off) fast to slow
			105ó 109	On
			110ó 124	Strobe 4 (Random) fast to slow
			125ó 129	On
			130ó 144	Strobe 5 (Random fast on, slow off) fast to slow
			145ó 149	On
			150ó 164	Strobe 6 (Random slow on, fast off) fast to slow
			165ó 169	On
			170ó 184	Strobe 7 (Pulse) fast to slow
			185ó 189	On
			190ó 204	Strobe 8 (Random pulse) fast to slow
			205ó 209	On
			210ó 224	Strobe 9 (Fade in, fade out) fast to slow
			225ó 229	On
230ó 244	Strobe 10 (Random pulse) fast to slow			
245ó 255	On			

<b>Advanced Movement Mode</b> (23CH cont.)	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>23</b>	<b>Control</b>	000 ∘ 009	No function
			010 ∘ 014	Manual tilt blackout
			015 ∘ 019	Cancel manual tilt blackout
			020 ∘ 024	1 fixture macro
			025 ∘ 029	2 fixture macro 1
			030 ∘ 034	2 fixture macro 2
			035 ∘ 039	4 fixture macro 1
			040 ∘ 044	4 fixture macro 2
			045 ∘ 049	4 fixture macro 3
			050 ∘ 054	4 fixture macro 4
			055 ∘ 059	Pan reset
			060 ∘ 064	Tilt reset
			065 ∘ 069	No function (reserved for future use)
			070 ∘ 074	Reset all
			075 ∘ 079	No function (reserved for future use)
			080 ∘ 084	Pan/Tilt reverse
			085 ∘ 089	Pan reverse
			090 ∘ 094	Tilt reverse
			095 ∘ 099	Cancel pan reverse
			100 ∘ 104	Cancel tilt reverse
			105 ∘ 109	Cancel pan/tilt reverse
			110 ∘ 114	No function (reserved for future use)
			115 ∘ 119	Link all heads to head 1
			120 ∘ 124	Unlink all heads from head 1
			125 ∘ 129	No function (reserved for future use)
130 ∘ 134	No function (reserved for future use)			
135 ∘ 139	Dimmer speed mode fast			
140 ∘ 144	Dimmer speed mode smooth			
145 ∘ 255	No function			

<b>Standard Movement Mode</b> (17CH)	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Pan</b>	000 ∘ 255	0–100%
			000	No function
	<b>2</b>	<b>Continuous Pan</b>	001 ∘ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129 ∘ 255	Clockwise rotation, slow to fast
<b>3</b>	<b>Tilt 1</b>	000 ∘ 255	0–100%	
<b>4</b>	<b>Tilt 2</b>	000 ∘ 255	0–100%	
<b>5</b>	<b>Tilt 3</b>	000 ∘ 255	0–100%	
<b>6</b>	<b>Tilt 4</b>	000 ∘ 255	0–100%	
<b>7</b>	<b>Tilt 5</b>	000 ∘ 255	0–100%	
	<b>8</b>	<b>Continuous Tilt 1</b>	000	No function
			001 ∘ 127	Counterclockwise rotation, slow to fast
			128	Stop
	<b>9</b>	<b>Continuous Tilt 2</b>	129 ∘ 255	Clockwise rotation, slow to fast
			000	No function
			001 ∘ 127	Counterclockwise rotation, slow to fast
			128	Stop
			129 ∘ 255	Clockwise rotation, slow to fast

Standard Movement Mode (17CH cont.)	Channel	Function	Value	Percent/Setting
10	Continuous Tilt 3	000	No function	
		001 0 127 128	Counterclockwise rotation, slow to fast Stop	
		129 0 255	Clockwise rotation, slow to fast	
11	Continuous Tilt 4	000	No function	
		001 0 127 128	Counterclockwise rotation, slow to fast Stop	
		129 0 255	Clockwise rotation, slow to fast	
12	Continuous Tilt 5	000	No function	
		001 0 127 128	Counterclockwise rotation, slow to fast Stop	
		129 0 255	Clockwise rotation, slow to fast	
13	Tilt Macro	000 0 047	No function	
		048 0 055	Tilt macro 1	
		056 0 063	Tilt macro 2	
		064 0 071	Tilt macro 3	
		072 0 079	Tilt macro 4	
		080 0 087	Tilt macro 5	
		088 0 095	Tilt macro 6	
		096 0 103	Tilt macro 7	
		104 0 111	Tilt macro 8	
		112 0 119	Tilt macro 9	
		120 0 127	Tilt macro 10	
		128 0 135	Tilt macro 11	
		136 0 143	Tilt macro 12	
		144 0 151	Tilt macro 13	
		152 0 159	Tilt macro 14	
		160 0 167	Tilt macro 15	
		168 0 175	Tilt macro 16	
		176 0 183	Tilt macro 17	
		184 0 191	Tilt macro 18	
		192 0 199	Tilt macro 19	
		200 0 207	Tilt macro 20	
		208 0 215	Tilt macro 21	
		216 0 223	Tilt macro 22	
		224 0 231	Tilt macro 23	
		232 0 239	Tilt macro 24	
		240 0 247	Tilt macro 25	
248 0 255	Tilt macro 26			
14	Tilt Macro Speed	000 0 255	Fast to slow	
15	Dimmer	000 0 255	0–100%	

Standard Movement Mode (17CH cont.)	Channel	Function	Value	Percent/Setting
	16	Shutter	000ó019	Off
			020ó024	On
			025ó064	Strobe 1, fast to slow
			065ó069	On
			070ó084	Strobe 2 (Fast on, slow off) fast to slow
			085ó089	On
			090ó104	Strobe 3 (Slow on, fast off) fast to slow
			105ó109	On
			110ó124	Strobe 4 (Random) fast to slow
			125ó129	On
			130ó144	Strobe 5 (Random fast on, slow off) fast to slow
			145ó149	On
			150ó164	Strobe 6 (Random slow on, fast off) fast to slow
			165ó169	On
			170ó184	Strobe 7 (Pulse) fast to slow
			185ó189	On
			190ó204	Strobe 8 (Random pulse) fast to slow
			205ó209	On
			210ó224	Strobe 9 (Fade in, fade out) fast to slow
			225ó229	On
230ó244	Strobe 10 (Random pulse) fast to slow			
245ó255	On			

<b>Standard Movement Mode</b> (17CH cont.)	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>17</b>	<b>Control</b>	000 009	No function
			010 014	Manual tilt blackout
			015 019	Cancel manual tilt blackout
			020 024	1 fixture macro
			025 029	2 fixture macro 1
			030 034	2 fixture macro 2
			035 039	4 fixture macro 1
			040 044	4 fixture macro 2
			045 049	4 fixture macro 3
			050 054	4 fixture macro 4
			055 059	Pan reset
			060 064	Tilt reset
			065 069	No function (reserved for future use)
			070 074	Reset all
			075 079	No function (reserved for future use)
			080 084	Pan/Tilt reverse
			085 089	Pan reverse
			090 094	Tilt reverse
			095 099	Cancel pan reverse
			100 104	Cancel tilt reverse
			105 109	Cancel pan/tilt reverse
			110 114	No function (reserved for future use)
			115 119	Link all heads to head 1
			120 124	Unlink all heads from head 1
			125 129	No function (reserved for future use)
			130 134	No function (reserved for future use)
			135 139	Dimmer speed mode fast
140 144	Dimmer speed mode smooth			
145 255	No function			

<b>Basic Movement Mode</b> (10CH)	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Pan</b>	000 255	0–100%
			000	No function
	<b>2</b>	<b>Continuous Pan</b>	001 127	Counterclockwise rotation, slow to fast
			128	Stop
			129 255	Clockwise rotation, slow to fast
	<b>3</b>	<b>Tilt All</b>	000 255	0–100%
			000	No function
	<b>4</b>	<b>Continuous Tilt All</b>	001 127	Counterclockwise rotation, slow to fast
			128	Stop
			129 255	Clockwise rotation, slow to fast
<b>5</b>	<b>Tilt Offset</b>	000 255	Offset heads from each other, 0–360°	

Basic Movement Mode (10CH cont.)	Channel	Function	Value	Percent/Setting
6	Tilt Macro		000ó 047	No function
			048ó 055	Tilt macro 1
			056ó 063	Tilt macro 2
			064ó 071	Tilt macro 3
			072ó 079	Tilt macro 4
			080ó 087	Tilt macro 5
			088ó 095	Tilt macro 6
			096ó 103	Tilt macro 7
			104ó 111	Tilt macro 8
			112ó 119	Tilt macro 9
			120ó 127	Tilt macro 10
			128ó 135	Tilt macro 11
			136ó 143	Tilt macro 12
			144ó 151	Tilt macro 13
			152ó 159	Tilt macro 14
			160ó 167	Tilt macro 15
			168ó 175	Tilt macro 16
			176ó 183	Tilt macro 17
			184ó 191	Tilt macro 18
			192ó 199	Tilt macro 19
			200ó 207	Tilt macro 20
			208ó 215	Tilt macro 21
			216ó 223	Tilt macro 22
			224ó 231	Tilt macro 23
			232ó 239	Tilt macro 24
			240ó 247	Tilt macro 25
	248ó 255	Tilt macro 26		
7	Tilt Macro Speed	000ó 255	Fast to slow	
8	Dimmer	000ó 255	0–100%	
9	Shutter		000ó 019	Off
			020ó 024	On
			025ó 064	Strobe 1, fast to slow
			065ó 069	On
			070ó 084	Strobe 2 (Fast on, slow off) fast to slow
			085ó 089	On
			090ó 104	Strobe 3 (Slow on, fast off) fast to slow
			105ó 109	On
			110ó 124	Strobe 4 (Random) fast to slow
			125ó 129	On
			130ó 144	Strobe 5 (Random fast on, slow off) fast to slow
			145ó 149	On
			150ó 164	Strobe 6 (Random slow on, fast off) fast to slow
			165ó 169	On
			170ó 184	Strobe 7 (Pulse) fast to slow
			185ó 189	On
			190ó 204	Strobe 8 (Random pulse) fast to slow
			205ó 209	On
			210ó 224	Strobe 9 (Fade in, fade out) fast to slow
			225ó 229	On
	230ó 244	Strobe 10 (Random pulse) fast to slow		
	245ó 255	On		

Basic Movement Mode (10CH cont.)	Channel	Function	Value	Percent/Setting
			000 009	No function
			010 014	Manual tilt blackout
			015 019	Cancel manual tilt blackout
			020 024	1 fixture macro
			025 029	2 fixture macro 1
			030 034	2 fixture macro 2
			035 039	4 fixture macro 1
			040 044	4 fixture macro 2
			045 049	4 fixture macro 3
			050 054	4 fixture macro 4
			055 059	Pan reset
			060 064	Tilt reset
			065 069	No function (reserved for future use)
			070 074	Reset all
			075 079	No function (reserved for future use)
	10	Control	080 084	Pan/Tilt reverse
			085 089	Pan reverse
			090 094	Tilt reverse
			095 099	Cancel pan reverse
			100 104	Cancel tilt reverse
			105 109	Cancel pan/tilt reverse
			110 114	No function (reserved for future use)
			115 119	Link all heads to head 1
			120 124	Unlink all heads from head 1
			125 129	No function (reserved for future use)
			130 134	No function (reserved for future use)
			135 139	Dimmer speed mode fast
			140 144	Dimmer speed mode smooth
			145 255	No function



## Dual Control Pixel Values

RGBW Mode	Channel	Function	Value	Percent/Setting
(20CH)	1	Head 1 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	2	Head 1 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	3	Head 1 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	4	Head 1 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	5	Head 2 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	6	Head 2 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	7	Head 2 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	8	Head 2 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	9	Head 3 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	10	Head 3 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	11	Head 3 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	12	Head 3 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	13	Head 4 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	14	Head 4 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	15	Head 4 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	16	Head 4 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	17	Head 5 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	18	Head 5 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	19	Head 5 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	20	Head 5 White	000○255	RGBW mode: 0–100% / CMY mode: 100%–0

RGB Mode	Channel	Function	Value	Percent/Setting
(15CH)	1	Head 1 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	2	Head 1 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	3	Head 1 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	4	Head 2 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	5	Head 2 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	6	Head 2 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	7	Head 3 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	8	Head 3 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	9	Head 3 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	10	Head 4 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	11	Head 4 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	12	Head 4 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	13	Head 5 Red	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	14	Head 5 Green	000○255	RGBW mode: 0–100% / CMY mode: 100%–0
	15	Head 5 Blue	000○255	RGBW mode: 0–100% / CMY mode: 100%–0