

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	

Basic Mode	Channel	Function	Value	Percent/Setting
(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

Advanced Movement Mode	Channel	Function	Value	Percent/Setting
(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 (23CH cont.)	Channel	Function	Value	Percent/Setting
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
21	Dimmer	000	255	0–100%
22	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 Movement Mode (23CH cont.)	Channel	Function	Value	Percent/Setting
	23	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			

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

Standard Movement Mode (17CH cont.)	Channel	Function	Value	Percent/Setting
	17	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			

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