

Q-8

DMX protocol

Protocol rev. 1.01



Mode
10 Channel Strobe (Q-7 + Strobe Emulation)

Valid from firmware version
1.27

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter (Panel)	0	7	0,0%	2,7%	Closed	Fast → Slow	8 (3,1%)	Snap
		8	15	3,1%	5,9%	Open			
		16	151	6,3%	59,2%	Strobe			
		152	175	59,6%	68,6%	Pulse Up	Slow → Fast		
		176	199	69,0%	78,0%	Pulse Down			
		200	244	78,4%	95,7%	Random			
		245	255	96,1%	100,0%	Open			
2	Intensity (Panel)	0	255	0,0%	100,0%	0% → 100% Intensity		0 (0%)	Fade
3	CTC (Panel)	0	0	0,0%	0,0%	5600K	See CTC chart	0 (0%)	Fade
		1	4	0,4%	1,6%	RAW			
		5	255	2,0%	100,0%	2000K → 10000K			
4	Red (Panel)	0	255	0,0%	100,0%	0% → 100% Red		255 (100%)	Fade
5	Green (Panel)	0	255	0,0%	100,0%	0% → 100% Green		255 (100%)	Fade
6	Blue (Panel)	0	255	0,0%	100,0%	0% → 100% Blue		255 (100%)	Fade
7	Intensity (Strobe Blinder 1+2)	0	255	0,0%	100,0%	0% → 100% Intensity	Both Strobe Blinders	0 (0%)	Fade
8	Duration (Strobe Blinder 1+2)	0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade
9	Rate (Strobe Blinder 1+2)	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade
10	Effect (Strobe Blinder 1+2)	0	5	0,0%	2,0%	No Effect	Compatible with traditional xenon-lamp strobes.	0 (0%)	Snap
		6	42	2,4%	16,5%	Halogen Attack			
		43	85	16,9%	33,3%	Halogen Decay			
		86	128	33,7%	50,2%	Halogen Attack and Decay			
		129	171	50,6%	67,1%	Random Pixel			
		172	214	67,5%	83,9%	Lightning			
		215	255	84,3%	100,0%	Spikes			

Mode
12 Channel Simplified

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	Intensity (Panel)	0 255	0,0% 100,0%	0% → 100% Intensity		0 (0%)	Fade
2	Duration (Panel)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
3	Rate (Panel)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
4	Effect (Panel)	0 5	0,0% 2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap
		6 10	2,4% 3,9%	Flicker			
		11 15	4,3% 5,9%	Random Pixel			
		16 20	6,3% 7,8%	Random			
		21 25	8,2% 9,8%	Flicker Individual Color			
		26 30	10,2% 11,8%	Random Strobe Color			
		31 35	12,2% 13,7%	Random Spike Color			
		36 40	14,1% 15,7%	Random Spike Pixel			
		41 45	16,1% 17,6%	Pre-Red			
		46 50	18,0% 19,6%	Pre-Green			
		51 55	20,0% 21,6%	Pre-Blue			
		56 60	22,0% 23,5%	RGB Flicker			
		61 65	23,9% 25,5%	Lightning			
		66 70	25,9% 27,5%	Circle RGB			
		71 75	27,8% 29,4%	Fire			
		76 80	29,8% 31,4%	Ice			
		81 85	31,8% 33,3%	Magenta-Red-Blue			
		86 90	33,7% 35,3%	Random Color Fade Pixel			
		91 95	35,7% 37,3%	Circle CW			
		96 100	37,6% 39,2%	Circle CCW			
		101 105	39,6% 41,2%	Scroll Down			
		106 110	41,6% 43,1%	Scroll Up			
		111 115	43,5% 45,1%	Scroll Up Down			
116 120	45,5% 47,1%	Effect Pixel 1-4					
121 136	47,5% 53,3%	Control Individual Pixels	See Pixel chart				
137 250	53,7% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
5	Red (Panel)	0 255	0,0% 100,0%	0% → 100% Red		255 (100%)	Fade
6	Green (Panel)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
7	Blue (Panel)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
8	White (Panel)	0 255	0,0% 100,0%	0% → 100% White		255 (100%)	Fade
9	Intensity (Strobe Blinder 1+2)	0 255	0,0% 100,0%	0% → 100% Intensity	Both Strobe Blinders	0 (0%)	Fade
10	Duration (Strobe Blinder 1+2)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
11	Rate (Strobe Blinder 1+2)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
12	Effect (Strobe Blinder 1+2)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
		140 149	54,9% 58,4%	Square Pixels CCW			
		150 159	58,8% 62,4%	Square Pixels CW			
		160 169	62,7% 66,3%	Square Pixels CCW Decay			
		170 179	66,7% 70,2%	Square Pixels CW Decay			
		180 189	70,6% 74,1%	Square Pixels CCW Attack Decay			
		190 199	74,5% 78,0%	Square Pixels CW Attack Decay			
		200 209	78,4% 82,0%	Square Pixels CCW Attack			
		210 219	82,4% 85,9%	Square Pixels CW Attack			
		220 235	86,3% 92,2%	Control Individual Pixels			
236 250	92,5% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					

Mode
27 Channel Standard
(Default Mode)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type	
1	Intensity (Panel)	0	255	0,0%	100,0%	0% → 100% Intensity		0 (0%)	Fade	
2	Duration (Panel)	0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade	
3	Rate (Panel)	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade	
4	Effect (Panel)	0	5	0,0%	2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap	
		6	10	2,4%	3,9%	Flicker				
		11	15	4,3%	5,9%	Random Pixel				
		16	20	6,3%	7,8%	Random				
		21	25	8,2%	9,8%	Flicker Individual Color				
		26	30	10,2%	11,8%	Random Strobe Color				
		31	35	12,2%	13,7%	Random Spike Color				
		36	40	14,1%	15,7%	Random Spike Pixel				
		41	45	16,1%	17,6%	Pre-Red				
		46	50	18,0%	19,6%	Pre-Green				
		51	55	20,0%	21,6%	Pre-Blue				
		56	60	22,0%	23,5%	RGB Flicker				
		61	65	23,9%	25,5%	Lightning				
		66	70	25,9%	27,5%	Circle RGB				
		71	75	27,8%	29,4%	Fire				
		76	80	29,8%	31,4%	Ice				
		81	85	31,8%	33,3%	Magenta-Red-Blue				
		86	90	33,7%	35,3%	Random Color Fade Pixel				
		91	95	35,7%	37,3%	Circle CW				
		96	100	37,6%	39,2%	Circle CCW				
		101	105	39,6%	41,2%	Scroll Down				
		106	110	41,6%	43,1%	Scroll Up				
		111	115	43,5%	45,1%	Scroll Up Down				
		116	120	45,5%	47,1%	Effect Pixel 1 → 4				
		121	136	47,5%	53,3%	Control Individual Pixels				See Pixel chart
121	250	47,5%	98,0%	Reserved						
251	255	98,4%	100,0%	No Effect						
5	Macro	0	4	0,0%	1,6%	Open	Compatible with G-1, P-6, P-10, Q-10, S-4 & G-4	0 (0%)	Snap	
		5	9	2,0%	3,5%	Congo/Color 1				
		10	14	3,9%	5,5%	Red/Color 2				
		15	19	5,9%	7,5%	Green/Color 3				
		20	24	7,8%	9,4%	Blue/Color 4				
		25	29	9,8%	11,4%	Orange/Color 5				
		30	34	11,8%	13,3%	Light Green/Color 6				
		35	39	13,7%	15,3%	Pink/Color 7				
		40	44	15,7%	17,3%	Light Blue/Color 8				
		45	49	17,6%	19,2%	Purple/Color 9				
		50	54	19,6%	21,2%	Neon Green/Color 10				
		55	59	21,6%	23,1%	Magenta/Color 11				
		60	64	23,5%	25,1%	Cyan/Color 12				
		65	69	25,5%	27,1%	Yellow/Color 13				
		70	74	27,5%	29,0%	CTC/Color 14				
		75	79	29,4%	31,0%	Colors Scroll (CCW Fast → Slow)				
		80	84	31,4%	32,9%	Colors Scroll (CW Slow → Fast)				
		85	89	33,3%	34,9%	Random Color				
		90	180	35,3%	70,6%	Color Filter Emulation				See Color Filter Emulation chart
		181	199	71,0%	78,0%	Minus Green				
		200	200	78,4%	78,4%	Neutral				
		201	219	78,8%	85,9%	Plus Green				
		220	224	86,3%	87,8%	DualSource™ Macro 1				Slow → Fast See note ⑥
		225	229	88,2%	89,8%	DualSource™ Macro 2				
		230	234	90,2%	91,8%	DualSource™ Macro 3				
235	239	92,2%	93,7%	DualSource™ Macro 4						
240	244	94,1%	95,7%	DualSource™ Macro 5						
245	249	96,1%	97,6%	DualSource™ Macro 6						
250	254	98,0%	99,6%	DualSource™ Macro 7						
255	255	100,0%	100,0%	Open						
6	CTC	0	0	0,0%	0,0%	5600K	See CTC chart	0 (0%)	Fade	
		1	4	0,4%	1,6%	RAW				
		5	255	2,0%	100,0%	2000K → 10000K				
7	Color Path	0	127	0,0%	49,8%	SGM Standard	See note ④	0 (0%)	Snap	
		128	255	50,2%	100,0%	SGM VersaPath™				

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
8	Red (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Red	Top Left	255 (100%)	Fade
9	Green (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
10	Blue (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
11	Red (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Red	Top Right	255 (100%)	Fade
12	Green (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
13	Blue (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
14	Red (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Red	Bottom Left	255 (100%)	Fade
15	Green (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
16	Blue (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
17	Red (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Red	Bottom Right	255 (100%)	Fade
18	Green (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
19	Blue (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
20	Intensity (Strobe Blinder 1+2)	0 255	0,0% 100,0%	0% → 100% Intensity	Both Strobe Blinders	0 (0%)	Fade
21	Duration (Strobe Blinder 1+2)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
22	Rate (Strobe Blinder 1+2)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
23	Effect (Strobe Blinder 1+2)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
		140 149	54,9% 58,4%	Square Pixels CCW			
		150 159	58,8% 62,4%	Square Pixels CW			
		160 169	62,7% 66,3%	Square Pixels CCW Decay			
170 179	66,7% 70,2%	Square Pixels CW Decay					
180 189	70,6% 74,1%	Square Pixels CCW Attack Decay					
190 199	74,5% 78,0%	Square Pixels CW Attack Decay					
200 209	78,4% 82,0%	Square Pixels CCW Attack					
210 219	82,4% 85,9%	Square Pixels CW Attack					
220 235	86,3% 92,2%	Control Individual Pixels	See Pixel chart				
236 250	92,5% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
24	Strobe Blinder 1 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Top Left	255 (100%)	Fade
25	Strobe Blinder 1 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Top Right	255 (100%)	Fade
26	Strobe Blinder 2 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Left	255 (100%)	Fade
27	Strobe Blinder 2 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Right	255 (100%)	Fade

Mode
34 Channel Standard +

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type	
1	Intensity (Panel)	0 255	0,0% 100,0%	0% → 100% Intensity		0 (0%)	Fade	
2	Duration (Panel)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade	
3	Rate (Panel)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade	
4	Effect (Panel)	0 5	0,0% 2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap	
		6 10	2,4% 3,9%	Flicker				
		11 15	4,3% 5,9%	Random Pixel				
		16 20	6,3% 7,8%	Random				
		21 25	8,2% 9,8%	Flicker Individual Color				
		26 30	10,2% 11,8%	Random Strobe Color				
		31 35	12,2% 13,7%	Random Spike Color				
		36 40	14,1% 15,7%	Random Spike Pixel				
		41 45	16,1% 17,6%	Pre-Red				
		46 50	18,0% 19,6%	Pre-Green				
		51 55	20,0% 21,6%	Pre-Blue				
		56 60	22,0% 23,5%	RGB Flicker				
		61 65	23,9% 25,5%	Lightning				
		66 70	25,9% 27,5%	Circle RGB				
		71 75	27,8% 29,4%	Fire				
		76 80	29,8% 31,4%	Ice				
		81 85	31,8% 33,3%	Magenta-Red-Blue				
		86 90	33,7% 35,3%	Random Color Fade Pixel				
		91 95	35,7% 37,3%	Circle CW				
		96 100	37,6% 39,2%	Circle CCW				
		101 105	39,6% 41,2%	Scroll Down				
		106 110	41,6% 43,1%	Scroll Up				
		111 115	43,5% 45,1%	Scroll Up Down				
		116 120	45,5% 47,1%	Effect Pixel 1 → 4				
		121 136	47,5% 53,3%	Control Individual Pixels				See Pixel chart
137 250	53,7% 98,0%	Reserved						
251 255	98,4% 100,0%	No Effect						
5	Macro	0 4	0,0% 1,6%	Open	Compatible with G-1, P-6, P-10, Q-10, S-4 & G-4	0 (0%)	Snap	
		5 9	2,0% 3,5%	Congo/Color 1				
		10 14	3,9% 5,5%	Red/Color 2				
		15 19	5,9% 7,5%	Green/Color 3				
		20 24	7,8% 9,4%	Blue/Color 4				
		25 29	9,8% 11,4%	Orange/Color 5				
		30 34	11,8% 13,3%	Light Green/Color 6				
		35 39	13,7% 15,3%	Pink/Color 7				
		40 44	15,7% 17,3%	Light Blue/Color 8				
		45 49	17,6% 19,2%	Purple/Color 9				
		50 54	19,6% 21,2%	Neon Green/Color 10				
		55 59	21,6% 23,1%	Magenta/Color 11				
		60 64	23,5% 25,1%	Cyan/Color 12				
		65 69	25,5% 27,1%	Yellow/Color 13				
		70 74	27,5% 29,0%	CTC/Color 14				
		75 79	29,4% 31,0%	Colors Scroll (CCW Fast → Slow)				
		80 84	31,4% 32,9%	Colors Scroll (CW Slow → Fast)				
		85 89	33,3% 34,9%	Random Color				
		90 180	35,3% 70,6%	Color Filter Emulation				See Color Filter Emulation chart
		181 199	71,0% 78,0%	Minus Green				
		200 200	78,4% 78,4%	Neutral				
		201 219	78,8% 85,9%	Plus Green				
		220 224	86,3% 87,8%	DualSource™ Macro 1				Slow → Fast See note ⑥
		225 229	88,2% 89,8%	DualSource™ Macro 2				
		230 234	90,2% 91,8%	DualSource™ Macro 3				
235 239	92,2% 93,7%	DualSource™ Macro 4						
240 244	94,1% 95,7%	DualSource™ Macro 5						
245 249	96,1% 97,6%	DualSource™ Macro 6						
250 254	98,0% 99,6%	DualSource™ Macro 7						
255 255	100,0% 100,0%	Open						
6	CTC	0 0	0,0% 0,0%	5600K	See CTC chart	0 (0%)	Fade	
		1 4	0,4% 1,6%	RAW				
		5 255	2,0% 100,0%	2000K → 10000K				
7	Color Path	0 127	0,0% 49,8%	SGM Standard	See note ④	0 (0%)	Snap	
		128 255	50,2% 100,0%	SGM VersaPath™				
8	Red Strobe (Panel)	0 255	0,0% 100,0%	0% → 100% Red	See note ①	0 (0%)	Fade	
9	Green Strobe (Panel)	0 255	0,0% 100,0%	0% → 100% Green		0 (0%)	Fade	
10	Blue Strobe (Panel)	0 255	0,0% 100,0%	0% → 100% Blue		0 (0%)	Fade	

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
11	Red (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Red	Top Left	255 (100%)	Fade
12	Green (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
13	Blue (Panel Pixel 1)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
14	Red (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Red	Top Right	255 (100%)	Fade
15	Green (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
16	Blue (Panel Pixel 2)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
17	Red (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Red	Bottom Left	255 (100%)	Fade
18	Green (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
19	Blue (Panel Pixel 3)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
20	Red (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Red	Bottom Right	255 (100%)	Fade
21	Green (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Green		255 (100%)	Fade
22	Blue (Panel Pixel 4)	0 255	0,0% 100,0%	0% → 100% Blue		255 (100%)	Fade
23	Intensity (Strobe Blinder 1)	0 255	0,0% 100,0%	0% → 100% Intensity	Top Strobe Blinder	0 (0%)	Fade
24	Duration (Strobe Blinder 1)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
25	Rate (Strobe Blinder 1)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
26	Effect (Strobe Blinder 1)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
140 219	54,9% 85,9%	Reserved					
220 223	86,3% 87,5%	Control Individual Pixels	See Pixel chart				
224 250	87,8% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
27	Intensity (Strobe Blinder 2)	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Strobe Blinder	0 (0%)	Fade
28	Duration (Strobe Blinder 2)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
29	Rate (Strobe Blinder 2)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
30	Effect (Strobe Blinder 2)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
140 219	54,9% 85,9%	Reserved					
220 223	86,3% 87,5%	Control Individual Pixels	See Pixel chart				
224 250	87,8% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
31	Strobe Blinder 1 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Top Left	255 (100%)	Fade
32	Strobe Blinder 1 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Top Right	255 (100%)	Fade
33	Strobe Blinder 2 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Left	255 (100%)	Fade
34	Strobe Blinder 2 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Right	255 (100%)	Fade

Mode
41 Channel Extended

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Intensity (Panel)	0	65535	0,0%	100,0%	0% → 100% Intensity		0 (0%)	Fade
2		0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade
3	Duration (Panel)	0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade
4	Rate (Panel)	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade
5	Effect (Panel)	0	5	0,0%	2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap
		6	10	2,4%	3,9%	Flicker			
		11	15	4,3%	5,9%	Random Pixel			
		16	20	6,3%	7,8%	Random			
		21	25	8,2%	9,8%	Flicker Individual Color			
		26	30	10,2%	11,8%	Random Strobe Color			
		31	35	12,2%	13,7%	Random Spike Color			
		36	40	14,1%	15,7%	Random Spike Pixel			
		41	45	16,1%	17,6%	Pre-Red			
		46	50	18,0%	19,6%	Pre-Green			
		51	55	20,0%	21,6%	Pre-Blue			
		56	60	22,0%	23,5%	RGB Flicker			
		61	65	23,9%	25,5%	Lightning			
		66	70	25,9%	27,5%	Circle RGB			
		71	75	27,8%	29,4%	Fire			
		76	80	29,8%	31,4%	Ice			
		81	85	31,8%	33,3%	Magenta-Red-Blue			
		86	90	33,7%	35,3%	Random Color Fade Pixel			
		91	95	35,7%	37,3%	Circle CW			
		96	100	37,6%	39,2%	Circle CCW			
		101	105	39,6%	41,2%	Scroll Down			
106	110	41,6%	43,1%	Scroll Up					
111	115	43,5%	45,1%	Scroll Up Down					
116	120	45,5%	47,1%	Effect Pixel 1 → 4					
121	136	47,5%	53,3%	Control Individual Pixels	See Pixel chart				
137	250	53,7%	98,0%	Reserved					
251	255	98,4%	100,0%	No Effect					
6	Red Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Red	See note ①	0 (0%)	Fade
7	Green Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Green		0 (0%)	Fade
8	Blue Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Blue		0 (0%)	Fade
9	White Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% White		0 (0%)	Fade
10	Red (Panel Pixel 1)	0	255	0,0%	100,0%	0% → 100% Red	Top Left	255 (100%)	Fade
11	Green (Panel Pixel 1)	0	255	0,0%	100,0%	0% → 100% Green		255 (100%)	Fade
12	Blue (Panel Pixel 1)	0	255	0,0%	100,0%	0% → 100% Blue		255 (100%)	Fade
13	White (Panel Pixel 1)	0	255	0,0%	100,0%	0% → 100% White	Top Right	255 (100%)	Fade
14	Red (Panel Pixel 2)	0	255	0,0%	100,0%	0% → 100% Red		255 (100%)	Fade
15	Green (Panel Pixel 2)	0	255	0,0%	100,0%	0% → 100% Green		255 (100%)	Fade
16	Blue (Panel Pixel 2)	0	255	0,0%	100,0%	0% → 100% Blue		255 (100%)	Fade
17	White (Panel Pixel 2)	0	255	0,0%	100,0%	0% → 100% White	Bottom Left	255 (100%)	Fade
18	Red (Panel Pixel 3)	0	255	0,0%	100,0%	0% → 100% Red		255 (100%)	Fade
19	Green (Panel Pixel 3)	0	255	0,0%	100,0%	0% → 100% Green		255 (100%)	Fade
20	Blue (Panel Pixel 3)	0	255	0,0%	100,0%	0% → 100% Blue	Bottom Right	255 (100%)	Fade
21	White (Panel Pixel 3)	0	255	0,0%	100,0%	0% → 100% White		255 (100%)	Fade
22	Red (Panel Pixel 4)	0	255	0,0%	100,0%	0% → 100% Red		255 (100%)	Fade
23	Green (Panel Pixel 4)	0	255	0,0%	100,0%	0% → 100% Green		255 (100%)	Fade
24	Blue (Panel Pixel 4)	0	255	0,0%	100,0%	0% → 100% Blue	See note ③	255 (100%)	Fade
25	White (Panel Pixel 4)	0	255	0,0%	100,0%	0% → 100% White		255 (100%)	Fade
26	Frequency (Panel & Strobe Blinders)	0	4	0,0%	1,6%	Default		3.174Hz → 30 kHz	0 (0%)
		5	255	2,0%	100,0%	Min → Max			
27	Dimming Curve	0	4	0,0%	1,6%	Smooth Gamma Corrected	See note ③	0 (0%)	Snap
		5	9	2,0%	3,5%	Smooth Linear			
		10	14	3,9%	5,5%	Halogen Gamma Corrected			
		15	19	5,9%	7,5%	Halogen Linear			
		20	24	7,8%	9,4%	Fast Response Gamma Corrected			
		25	29	9,8%	11,4%	Fast Response Linear			
		30	34	11,8%	13,3%	Extended Range - Smooth Gamma Corrected			
		35	39	13,7%	15,3%	Extended Range - Smooth Linear			
		40	44	15,7%	17,3%	Extended Range - Halogen Gamma Corrected			
		45	49	17,6%	19,2%	Extended Range - Halogen Linear			
		50	54	19,6%	21,2%	Extended Range - Fast Response Gamma Corrected			
		55	59	21,6%	23,1%	Extended Range - Fast Response Linear			
		60	255	23,5%	100,0%	Reserved			

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
28	Intensity (Strobe Blinder 1)	0 65535	0,0% 100,0%	0% → 100% Intensity	Top Strobe Blinder	0 (0%)	Fade
29	Duration (Strobe Blinder 1)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
30	Rate (Strobe Blinder 1)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
32	Effect (Strobe Blinder 1)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
		140 219	54,9% 85,9%	Reserved			
220 223	86,3% 87,5%	Control Individual Pixels	See Pixel chart				
224 250	87,8% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
33	Intensity (Strobe Blinder 2)	0 65535	0,0% 100,0%	0% → 100% Intensity	Bottom Strobe Blinder	0 (0%)	Fade
34	Duration (Strobe Blinder 2)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
35	Rate (Strobe Blinder 2)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
37	Effect (Strobe Blinder 2)	0 9	0,0% 3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10 19	3,9% 7,5%	Random Pixels			
		20 29	7,8% 11,4%	Strobe turn off Panel			
		30 39	11,8% 15,3%	Random Strobe			
		40 49	15,7% 19,2%	Random Strobe turn off Panel			
		50 59	19,6% 23,1%	Strobe Flicker			
		60 69	23,5% 27,1%	Strobe Lightning			
		70 79	27,5% 31,0%	Spikes			
		80 89	31,4% 34,9%	Random Blind			
		90 99	35,3% 38,8%	Halogen Decay			
		100 109	39,2% 42,7%	Halogen Attack and Decay			
		110 119	43,1% 46,7%	Halogen Attack			
		120 129	47,1% 50,6%	Random Pixel Pulse			
		130 139	51,0% 54,5%	Random Intensity Strobe			
		140 219	54,9% 85,9%	Reserved			
220 223	86,3% 87,5%	Control Individual Pixels	See Pixel chart				
224 250	87,8% 98,0%	Reserved					
251 255	98,4% 100,0%	No Effect					
38	Strobe Blinder 1 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Top Left	255 (100%)	Fade
39	Strobe Blinder 1 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Top Right	255 (100%)	Fade
40	Strobe Blinder 2 Pixel 1	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Left	255 (100%)	Fade
41	Strobe Blinder 2 Pixel 2	0 255	0,0% 100,0%	0% → 100% Intensity	Bottom Right	255 (100%)	Fade

Mode
52 Channel Extended +

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type	
1	Intensity (Panel)	0	65535	0,0%	100,0%	0% → 100% Intensity		0 (0%)	Fade	
2		0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade	
3	Duration (Panel)	0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade	
4	Rate (Panel)	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade	
5	Effect (Panel)	0	5	0,0%	2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap	
		6	10	2,4%	3,9%	Flicker				
		11	15	4,3%	5,9%	Random Pixel				
		16	20	6,3%	7,8%	Random				
		21	25	8,2%	9,8%	Flicker Individual Color				
		26	30	10,2%	11,8%	Random Strobe Color				
		31	35	12,2%	13,7%	Random Spike Color				
		36	40	14,1%	15,7%	Random Spike Pixel				
		41	45	16,1%	17,6%	Pre-Red				
		46	50	18,0%	19,6%	Pre-Green				
		51	55	20,0%	21,6%	Pre-Blue				
		56	60	22,0%	23,5%	RGB Flicker				
		61	65	23,9%	25,5%	Lightning				
		66	70	25,9%	27,5%	Circle RGB				
		71	75	27,8%	29,4%	Fire				
		76	80	29,8%	31,4%	Ice				
		81	85	31,8%	33,3%	Magenta-Red-Blue				
		86	90	33,7%	35,3%	Random Color Fade Pixel				
		91	95	35,7%	37,3%	Circle CW				
		96	100	37,6%	39,2%	Circle CCW				
		101	105	39,6%	41,2%	Scroll Down				
		106	110	41,6%	43,1%	Scroll Up				
		111	115	43,5%	45,1%	Scroll Up Down				
		116	120	45,5%	47,1%	Effect Pixel 1 → 4				
		121	136	47,5%	53,3%	Control Individual Pixels				See Pixel chart
137	250	53,7%	98,0%	Reserved						
251	255	98,4%	100,0%	No Effect						
6	Macro	0	4	0,0%	1,6%	Open	Compatible with G-1, P-6, P-10, Q-10, S-4 & G-4	0 (0%)	Snap	
		5	9	2,0%	3,5%	Congo/Color 1				
		10	14	3,9%	5,5%	Red/Color 2				
		15	19	5,9%	7,5%	Green/Color 3				
		20	24	7,8%	9,4%	Blue/Color 4				
		25	29	9,8%	11,4%	Orange/Color 5				
		30	34	11,8%	13,3%	Light Green/Color 6				
		35	39	13,7%	15,3%	Pink/Color 7				
		40	44	15,7%	17,3%	Light Blue/Color 8				
		45	49	17,6%	19,2%	Purple/Color 9				
		50	54	19,6%	21,2%	Neon Green/Color 10				
		55	59	21,6%	23,1%	Magenta/Color 11				
		60	64	23,5%	25,1%	Cyan/Color 12				
		65	69	25,5%	27,1%	Yellow/Color 13				
		70	74	27,5%	29,0%	CTC/Color 14				
		75	79	29,4%	31,0%	Colors Scroll (CCW Fast → Slow)				
		80	84	31,4%	32,9%	Colors Scroll (CW Slow → Fast)				
		85	89	33,3%	34,9%	Random Color				
		90	180	35,3%	70,6%	Color Filter Emulation				See Color Filter Emulation chart
		181	199	71,0%	78,0%	Minus Green				
		200	200	78,4%	78,4%	Neutral				
		201	219	78,8%	85,9%	Plus Green				
		220	224	86,3%	87,8%	DualSource™ Macro 1				Slow → Fast See note ⑥
		225	229	88,2%	89,8%	DualSource™ Macro 2				
		230	234	90,2%	91,8%	DualSource™ Macro 3				
235	239	92,2%	93,7%	DualSource™ Macro 4						
240	244	94,1%	95,7%	DualSource™ Macro 5						
245	249	96,1%	97,6%	DualSource™ Macro 6						
250	254	98,0%	99,6%	DualSource™ Macro 7						
255	255	100,0%	100,0%	Open						
7	CTC	0	0	0,0%	0,0%	5600K		0 (0%)	Fade	
		1	4	0,4%	1,6%	RAW				
		5	255	2,0%	100,0%	2000K → 10000K				See CTC chart
8	Color Path	0	127	0,0%	49,8%	SGM Standard	See note ④	0 (0%)	Snap	
		128	255	50,2%	100,0%	SGM VersaPath™				
9	Red Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Red	See note ①	0 (0%)	Fade	
10	Green Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Green		0 (0%)	Fade	
11	Blue Strobe (Panel)	0	255	0,0%	100,0%	0% → 100% Blue		0 (0%)	Fade	

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
12 13	Red (Panel Pixel 1)	0 65535	0,0% 100,0%	0% → 100% Red	Top Left	65535 (100%)	Fade
14 15	Green (Panel Pixel 1)	0 65535	0,0% 100,0%	0% → 100% Green		65535 (100%)	Fade
16 17	Blue (Panel Pixel 1)	0 65535	0,0% 100,0%	0% → 100% Blue		65535 (100%)	Fade
18 19	Red (Panel Pixel 2)	0 65535	0,0% 100,0%	0% → 100% Red	Top Right	65535 (100%)	Fade
20 21	Green (Panel Pixel 2)	0 65535	0,0% 100,0%	0% → 100% Green		65535 (100%)	Fade
22 23	Blue (Panel Pixel 2)	0 65535	0,0% 100,0%	0% → 100% Blue		65535 (100%)	Fade
24 25	Red (Panel Pixel 3)	0 65535	0,0% 100,0%	0% → 100% Red	Bottom Left	65535 (100%)	Fade
26 27	Green (Panel Pixel 3)	0 65535	0,0% 100,0%	0% → 100% Green		65535 (100%)	Fade
28 29	Blue (Panel Pixel 3)	0 65535	0,0% 100,0%	0% → 100% Blue		65535 (100%)	Fade
30 31	Red (Panel Pixel 4)	0 65535	0,0% 100,0%	0% → 100% Red	Bottom Right	65535 (100%)	Fade
32 33	Green (Panel Pixel 4)	0 65535	0,0% 100,0%	0% → 100% Green		65535 (100%)	Fade
34 35	Blue (Panel Pixel 4)	0 65535	0,0% 100,0%	0% → 100% Blue		65535 (100%)	Fade
36	Frequency (Panel & Strobe Blinders)	0 4 5 255	0,0% 1,6% 2,0% 100,0%	Default Min → Max	3.174Hz → 30 kHz	0 (0%)	Fade
37	Dimming Curve	0 4 5 9 10 14 15 19 20 24 25 29 30 34 35 39 40 44 45 49 50 54 55 59 60 255	0,0% 1,6% 2,0% 3,5% 3,9% 5,5% 5,9% 7,5% 7,8% 9,4% 9,8% 11,4% 11,8% 13,3% 13,7% 15,3% 15,7% 17,3% 17,6% 19,2% 19,6% 21,2% 21,6% 23,1% 23,5% 100,0%	Smooth Gamma Corrected Smooth Linear Halogen Gamma Corrected Halogen Linear Fast Response Gamma Corrected Fast Response Linear Extended Range - Smooth Gamma Corrected Extended Range - Smooth Linear Extended Range - Halogen Gamma Corrected Extended Range - Halogen Linear Extended Range - Fast Response Gamma Corrected Extended Range - Fast Response Linear Reserved	See note ③	0 (0%)	Snap
38 39	Intensity (Strobe Blinder 1)	0 65535	0,0% 100,0%	0% → 100% Intensity	Top Strobe Blinder	0 (0%)	Fade
40	Duration (Strobe Blinder 1)	0 255	0,0% 100,0%	Short → Long		0 (0%)	Fade
41	Rate (Strobe Blinder 1)	0 255	0,0% 100,0%	Slow → Fast		0 (0%)	Fade
42	Effect (Strobe Blinder 1)	0 9 10 19 20 29 30 39 40 49 50 59 60 69 70 79 80 89 90 99 100 109 110 119 120 129 130 139 140 219 220 223 224 250 251 255	0,0% 3,5% 3,9% 7,5% 7,8% 11,4% 11,8% 15,3% 15,7% 19,2% 19,6% 23,1% 23,5% 27,1% 27,5% 31,0% 31,4% 34,9% 35,3% 38,8% 39,2% 42,7% 43,1% 46,7% 47,1% 50,6% 51,0% 54,5% 54,9% 85,9% 86,3% 87,5% 87,8% 98,0% 98,4% 100,0%	No Effect Random Pixels Strobe turn off Panel Random Strobe Random Strobe turn off Panel Strobe Flicker Strobe Lightning Spikes Random Blind Halogen Decay Halogen Attack and Decay Halogen Attack Random Pixel Pulse Random Intensity Strobe Reserved Control Individual Pixels Reserved No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0 See Pixel chart	0 (0%)	Snap

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
43	Intensity (Strobe Blinder 2)	0	65535	0,0%	100,0%	0% → 100% Intensity	Bottom Strobe Blinder	0 (0%)	Fade
44		0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade
45		0	255	2,0%	100,0%	Slow → Fast		0 (0%)	Fade
46	Rate (Strobe Blinder 2)	0	255	2,0%	100,0%	Slow → Fast	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
47	Effect (Strobe Blinder 2)	0	9	0,0%	3,5%	No Effect			
		10	19	3,9%	7,5%	Random Pixels			
		20	29	7,8%	11,4%	Strobe turn off Panel			
		30	39	11,8%	15,3%	Random Strobe			
		40	49	15,7%	19,2%	Random Strobe turn off Panel			
		50	59	19,6%	23,1%	Strobe Flicker			
		60	69	23,5%	27,1%	Strobe Lightning			
		70	79	27,5%	31,0%	Spikes			
		80	89	31,4%	34,9%	Random Blind			
		90	99	35,3%	38,8%	Halogen Decay			
		100	109	39,2%	42,7%	Halogen Attack and Decay			
		110	119	43,1%	46,7%	Halogen Attack			
		120	129	47,1%	50,6%	Random Pixel Pulse			
		130	139	51,0%	54,5%	Random Intensity Strobe			
		140	219	54,9%	85,9%	Reserved			
220	223	86,3%	87,5%	Control Individual Pixels	See Pixel chart				
224	250	87,8%	98,0%	Reserved					
251	255	98,4%	100,0%	No Effect					
48	Strobe Blinder 1 Pixel 1	0	255	0,0%	100,0%	0% → 100% Intensity	Top Left	255 (100%)	Fade
49	Strobe Blinder 1 Pixel 2	0	255	0,0%	100,0%	0% → 100% Intensity	Top Right	255 (100%)	Fade
50	Strobe Blinder 2 Pixel 1	0	255	0,0%	100,0%	0% → 100% Intensity	Bottom Left	255 (100%)	Fade
51	Strobe Blinder 2 Pixel 2	0	255	0,0%	100,0%	0% → 100% Intensity	Bottom Right	255 (100%)	Fade
52	Fan Control	0	4	0,0%	1,6%	Default		0 (0%)	Fade
		5	255	2,0%	100,0%	Min → Max			

Mode
36 Channel Studio

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type			
1	Intensity (Panel)	0	65535	0,0%	100,0%	0% → 100% Intensity		0 (0%)	Fade	
2		0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade	
3	Duration (Panel)	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade	
4	Rate (Panel)	0	255	0,0%	100,0%			0 (0%)	Fade	
5	Effect (Panel)	0	5	0,0%	2,0%	No Effect	Compatible with P-6, P-10 & Q-10 Requires Rate higher than 0	0 (0%)	Snap	
		6	10	2,4%	3,9%	Flicker				
		11	15	4,3%	5,9%	Random Pixel				
		16	20	6,3%	7,8%	Random				
		21	25	8,2%	9,8%	Flicker Individual Color				
		26	30	10,2%	11,8%	Random Strobe Color				
		31	35	12,2%	13,7%	Random Spike Color				
		36	40	14,1%	15,7%	Random Spike Pixel				
		41	45	16,1%	17,6%	Pre-Red				
		46	50	18,0%	19,6%	Pre-Green				
		51	55	20,0%	21,6%	Pre-Blue				
		56	60	22,0%	23,5%	RGB Flicker				
		61	65	23,9%	25,5%	Lightning				
		66	70	25,9%	27,5%	Circle RGB				
		71	75	27,8%	29,4%	Fire				
		76	80	29,8%	31,4%	Ice				
		81	85	31,8%	33,3%	Magenta-Red-Blue				
		86	90	33,7%	35,3%	Random Color Fade Pixel				
		91	95	35,7%	37,3%	Circle CW				
		96	100	37,6%	39,2%	Circle CCW				
		101	105	39,6%	41,2%	Scroll Down				
		106	110	41,6%	43,1%	Scroll Up				
		111	115	43,5%	45,1%	Scroll Up Down				
		116	120	45,5%	47,1%	Effect Pixel 1-4				
		121	136	47,5%	53,3%	Control Individual Pixels				See Pixel chart
137	250	53,7%	98,0%	Reserved						
251	255	98,4%	100,0%	No Effect						
6	Macro	0	4	0,0%	1,6%	Open	Compatible with G-1, P-6, P-10, Q-10, S-4 & G-4	0 (0%)	Snap	
		5	9	2,0%	3,5%	Congo/Color 1				
		10	14	3,9%	5,5%	Red/Color 2				
		15	19	5,9%	7,5%	Green/Color 3				
		20	24	7,8%	9,4%	Blue/Color 4				
		25	29	9,8%	11,4%	Orange/Color 5				
		30	34	11,8%	13,3%	Light Green/Color 6				
		35	39	13,7%	15,3%	Pink/Color 7				
		40	44	15,7%	17,3%	Light Blue/Color 8				
		45	49	17,6%	19,2%	Purple/Color 9				
		50	54	19,6%	21,2%	Neon Green/Color 10				
		55	59	21,6%	23,1%	Magenta/Color 11				
		60	64	23,5%	25,1%	Cyan/Color 12				
		65	69	25,5%	27,1%	Yellow/Color 13				
		70	74	27,5%	29,0%	CTC/Color 14				
		75	79	29,4%	31,0%	Colors Scroll (CCW Fast → Slow)				
		80	84	31,4%	32,9%	Colors Scroll (CW Slow → Fast)				
		85	89	33,3%	34,9%	Random Color				
		90	180	35,3%	70,6%	Color Filter Emulation				See Color Filter Emulation chart
		181	219	71,0%	85,9%	Reserved				
		220	224	86,3%	87,8%	DualSource™ Macro 1				Slow → Fast See note ⑥
		225	229	88,2%	89,8%	DualSource™ Macro 2				
		230	234	90,2%	91,8%	DualSource™ Macro 3				
		235	239	92,2%	93,7%	DualSource™ Macro 4				
		240	244	94,1%	95,7%	DualSource™ Macro 5				
245	249	96,1%	97,6%	DualSource™ Macro 6						
250	254	98,0%	99,6%	DualSource™ Macro 7						
255	255	100,0%	100,0%	Open						
7	Color Mode	0	4	0,0%	1,6%	CTC RGB	See note ②	0 (0%)	Snap	
		5	9	2,0%	3,5%	xy (CIE 1931)				
		10	14	3,9%	5,5%	CTC RGBW				
		15	19	5,9%	7,5%	HSI				
		20	24	7,8%	9,4%	CMY				
		25	29	9,8%	11,4%	CTC RGB+W				
		30	255	11,8%	100,0%	Reserved				
8	Plus/Minus Green	0	4	0,0%	1,6%	Neutral	Max → Min Min → Max	0 (0%)	Fade	
		5	125	2,0%	49,0%	Minus Green				
		126	134	49,4%	52,5%	Neutral				
		135	255	52,9%	100,0%	Plus Green				

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type		
9	Dimming Curve	0	4	0,0%	1,6%	Smooth Gamma Corrected	See note ③	0 (0%)	Snap
		5	9	2,0%	3,5%	Smooth Linear			
		10	14	3,9%	5,5%	Halogen Gamma Corrected			
		15	19	5,9%	7,5%	Halogen Linear			
		20	24	7,8%	9,4%	Fast Response Gamma Corrected			
		25	29	9,8%	11,4%	Fast Response Linear			
		30	34	11,8%	13,3%	Extended Range - Smooth Gamma Corrected			
		35	39	13,7%	15,3%	Extended Range - Smooth Linear			
		40	44	15,7%	17,3%	Extended Range - Halogen Gamma Corrected			
		45	49	17,6%	19,2%	Extended Range - Halogen Linear			
		50	54	19,6%	21,2%	Extended Range - Fast Response Gamma Corrected			
		55	59	21,6%	23,1%	Extended Range - Fast Response Linear			
60	255	23,5%	100,0%	Reserved					
10	CTC	0	0	0,0%	0,0%	5600K	See CTC chart	0 (0%)	Fade
		1	4	0,4%	1,6%	RAW			
		5	255	2,0%	100,0%	2000K → 10000K			
11	Color Path	0	127	0,0%	49,8%	SGM Standard	See note ④	0 (0%)	Snap
		128	255	50,2%	100,0%	SGM VersaPath™			
12	Red (Panel)	0	65535	0,0%	100,0%	0% → 100% Red		65535 (100%)	Fade
13									
14	Green (Panel)	0	65535	0,0%	100,0%	0% → 100% Green		65535 (100%)	Fade
15									
16	Blue (Panel)	0	65535	0,0%	100,0%	0% → 100% Blue		65535 (100%)	Fade
17									
18	White (Panel)	0	65535	0,0%	100,0%	0% → 100% White		65535 (100%)	Fade
19									
20	Frequency (Panel & Strobe Blinders)	0	4	0,0%	1,6%	Default	3.174Hz → 30 kHz	0 (0%)	Fade
		5	255	2,0%	100,0%	Min → Max			
21	High Speed Mode	0	9	0,0%	3,5%	Not Active	See note ⑤	0 (0%)	Snap
		10	19	3,9%	7,5%	Mode 1			
		20	29	7,8%	11,4%	Mode 2			
		30	39	11,8%	15,3%	Mode 3			
		40	49	15,7%	19,2%	Mode 4			
		50	59	19,6%	23,1%	Mode 5			
		60	69	23,5%	27,1%	Mode 6			
		70	79	27,5%	31,0%	Mode 7			
80	255	31,4%	100,0%	Not Active					
22	Intensity (Strobe Blinder 1)	0	65535	0,0%	100,0%	0% → 100% Intensity	Top Strobe Blinder	0 (0%)	Fade
23									
24	Duration (Strobe Blinder 1)	0	255	0,0%	100,0%	Short → Long			
25	Rate (Strobe Blinder 1)	0	255	0,0%	100,0%	Slow → Fast	0 (0%)	Fade	
26	Effect (Strobe Blinder 1)	0	9	0,0%	3,5%	No Effect	Compatible with G-7 BeaSt Requires Rate higher than 0	0 (0%)	Snap
		10	19	3,9%	7,5%	Random Pixels			
		20	29	7,8%	11,4%	Strobe turn off Panel			
		30	39	11,8%	15,3%	Random Strobe			
		40	49	15,7%	19,2%	Random Strobe turn off Panel			
		50	59	19,6%	23,1%	Strobe Flicker			
		60	69	23,5%	27,1%	Strobe Lightning			
		70	79	27,5%	31,0%	Spikes			
		80	89	31,4%	34,9%	Random Blind			
		90	99	35,3%	38,8%	Halogen Decay			
		100	109	39,2%	42,7%	Halogen Attack and Decay			
		110	119	43,1%	46,7%	Halogen Attack			
		120	129	47,1%	50,6%	Random Pixel Pulse			
		130	139	51,0%	54,5%	Random Intensity Strobe			
		140	219	54,9%	85,9%	Reserved			
		220	223	86,3%	87,5%	Control Individual Pixels			
224	250	87,8%	98,0%	Reserved					
251	255	98,4%	100,0%	No Effect					
					See Pixel chart				

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
27	Intensity	0	65535	0,0%	100,0%	0% → 100% Intensity	Bottom Strobe Blinder	0 (0%)	Fade
28	(Strobe Blinder 2)								
29	Duration	0	255	0,0%	100,0%	Short → Long		0 (0%)	Fade
	(Strobe Blinder 2)								
30	Rate	0	255	0,0%	100,0%	Slow → Fast		0 (0%)	Fade
	(Strobe Blinder 2)								
31	Effect	0	9	0,0%	3,5%	No Effect	Compatible with G-7 BeaSt	0 (0%)	Snap
		10	19	3,9%	7,5%	Random Pixels			
		20	29	7,8%	11,4%	Strobe turn off Panel			
		30	39	11,8%	15,3%	Random Strobe			
		40	49	15,7%	19,2%	Random Strobe turn off Panel			
		50	59	19,6%	23,1%	Strobe Flicker			
		60	69	23,5%	27,1%	Strobe Lightning			
		70	79	27,5%	31,0%	Spikes			
		80	89	31,4%	34,9%	Random Blind			
		90	99	35,3%	38,8%	Halogen Decay			
		100	109	39,2%	42,7%	Halogen Attack and Decay			
		110	119	43,1%	46,7%	Halogen Attack			
		120	129	47,1%	50,6%	Random Pixel Pulse			
		130	139	51,0%	54,5%	Random Intensity Strobe			
		140	219	54,9%	85,9%	Reserved			
220	223	86,3%	87,5%	Control Individual Pixels	See Pixel chart				
224	250	87,8%	98,0%	Reserved					
251	255	98,4%	100,0%	No Effect					
32	Strobe Blinder 1 Pixel 1	0	255	0,0%	100,0%	0% → 100% Intensity	Top Left	255 (100%)	Fade
33	Strobe Blinder 1 Pixel 2	0	255	0,0%	100,0%	0% → 100% Intensity	Top Right	255 (100%)	Fade
34	Strobe Blinder 2 Pixel 1	0	255	0,0%	100,0%	0% → 100% Intensity	Bottom Left	255 (100%)	Fade
35	Strobe Blinder 2 Pixel 2	0	255	0,0%	100,0%	0% → 100% Intensity	Bottom Right	255 (100%)	Fade
36	Fan Control	0	4	0,0%	1,6%	Default		0 (0%)	Fade
		5	255	2,0%	100,0%	Min → Max			

Mode
12 Channel RGB Only

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	Red (Panel Pixel 1)	0	255	0,0% 100,0%	0% → 100% Red	0 (0%)	Fade
2	Green (Panel Pixel 1)	0	255	0,0% 100,0%	0% → 100% Green		0 (0%)
3	Blue (Panel Pixel 1)	0	255	0,0% 100,0%	0% → 100% Blue	0 (0%)	Fade
4	Red (Panel Pixel 2)	0	255	0,0% 100,0%	0% → 100% Red		0 (0%)
5	Green (Panel Pixel 2)	0	255	0,0% 100,0%	0% → 100% Green	0 (0%)	Fade
6	Blue (Panel Pixel 2)	0	255	0,0% 100,0%	0% → 100% Blue		0 (0%)
7	Red (Panel Pixel 3)	0	255	0,0% 100,0%	0% → 100% Red	0 (0%)	Fade
8	Green (Panel Pixel 3)	0	255	0,0% 100,0%	0% → 100% Green		0 (0%)
9	Blue (Panel Pixel 3)	0	255	0,0% 100,0%	0% → 100% Blue	0 (0%)	Fade
10	Red (Panel Pixel 4)	0	255	0,0% 100,0%	0% → 100% Red		0 (0%)
11	Green (Panel Pixel 4)	0	255	0,0% 100,0%	0% → 100% Green	0 (0%)	Fade
12	Blue (Panel Pixel 4)	0	255	0,0% 100,0%	0% → 100% Blue		0 (0%)

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Notes



① RGB(W) strobe effect on a separate layer, on top of RGBW pixels, controllable via Rate and Duration on the panel. The Red, Green, Blue and White Strobe channels can be combined to achieve a mixed RGBW strobe on top of a mixed RGBW background or RGBW pixel control. In calibrated modes, combine the Red Strobe, Green Strobe, and Blue Strobe, to achieve a calibrated White Strobe. The White Strobe channel is only available in RAW modes that also include a White channel.

② - **CTC RGB** allows RGBW mixing with CTC control over white on the Red, Green and Blue channels (5700K White LED is controlled via RGB color engine).
- **CTC RGBW** allows RGBW mixing with CTC control over white on the Red, Green, Blue and White channels (5700K White LED is controlled via RGBW color engine).
- **CTC RGB+W** allows RGB mixing with CTC control over white on the Red, Green and Blue channels, plus independent control over 5700K White LED on the White channel (5700K White LED is not part of the color engine).
- **HSI** and **CMY** modes use the Red, Green and Blue channels for the color mix.
- **xy** mode does not allow CTC control.

CTC RGB, CTC RGBW, CTC RGB+W, HSI, and CMY modes can be combined with the CTC, Color Path, Macro, and Plus/Minus Green channels.

③ Changes the dimming curve on both RGBW Panel and the 2 White Strobe/Blinder strips.
- **Smooth Gamma Corrected** is compatible with previous SGM products.
- **Halogen** creates an organic delay, similar to tungsten-lamp performance when filament is heated up.
- **Extended Range** creates a low-end dimming that ignores the SGM recommended minimum level to achieve a wider threshold.

④ With the Color Path set to **VersaPath™**, the color emulation reacts in the same way as a physical filter over a specific native color temperature (from 2000K to 10000K), editable via the CTC channel.
When Dimming Curve channel is set to Halogen, a “tungsten-lamp with color filter” look can be achieved.
When the Color Path is set to **VersaPath™**, the CTC channel can be used to move the RGB color mix over the black-body curve. In order to achieve this, at least 2 primary colors need to have values above 000.
When the Color Path is set to Standard, the color mixing is compatible with all SGM RGB-based products since 2009. CTC channel can only affect the RGB color mix when at least 3 primary colors have values above 000.

⑤ When one of the High Speed Modes is active, the Panel Intensity channel is used to turn on the white LED of the panel (5600K / CRI 90 / Brightness 100%). This requires the Panel Intensity channel to be set to a DMX value from 1 to 255. At a DMX value of 0, the Panel will turn off. Any other channel will be disabled when a High Speed Mode is active.
7 different modes are available to assure the best output depending on the ambient temperature:
- **Mode 1:** unknown or variable ambient temperature.
- **Mode 2:** temperatures up to 15°C.
- **Mode 3:** temperatures up to 20°C.
- **Mode 4:** temperatures up to 25°C.
- **Mode 5:** temperatures up to 30°C.
- **Mode 6:** temperatures up to 35°C.
- **Mode 7:** temperatures up to 40°C.

⑥ The **DualSource™** Macros only require the Panel Intensity channel to be higher than DMX 0. The Panel Intensity channel will act as a master dimmer for both light sources when one of these macros is selected.

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Pixel chart



Effect	DMX value		DMX percentage		Pixel 1	Pixel 2	Pixel 3	Pixel 4	DMX mode
Individual Pixel Control (Panel)	121	121	47,5%	47,5%	I	O	O	O	Simplified Standard Standard+ Extended Extended+ Studio Mode
	122	122	47,8%	47,8%	O	I	O	O	
	123	123	48,2%	48,2%	I	I	O	O	
	124	124	48,6%	48,6%	O	O	I	O	
	125	125	49,0%	49,0%	I	O	I	O	
	126	126	49,4%	49,4%	O	I	I	O	
	127	127	49,8%	49,8%	I	I	I	O	
	128	128	50,2%	50,2%	O	O	O	I	
	129	129	50,6%	50,6%	I	O	O	I	
	130	130	51,0%	51,0%	O	I	O	I	
	131	131	51,4%	51,4%	I	I	O	I	
	132	132	51,8%	51,8%	O	O	I	I	
	133	133	52,2%	52,2%	I	O	I	I	
	134	134	52,5%	52,5%	O	I	I	I	
	135	135	52,9%	52,9%	I	I	I	I	
	136	136	53,3%	53,3%	O	O	O	O	

Effect	DMX value		DMX percentage		Pixel 1	Pixel 2	Pixel 3	Pixel 4	DMX mode
Individual Pixel Control (Strobe Blinders)	220	220	86,3%	86,3%	I	O	O	O	Simplified Standard
	221	221	86,7%	86,7%	O	I	O	O	
	222	222	87,1%	87,1%	I	I	O	O	
	223	223	87,5%	87,5%	O	O	I	O	
	224	224	87,8%	87,8%	I	O	I	O	
	225	225	88,2%	88,2%	O	I	I	O	
	226	226	88,6%	88,6%	I	I	I	O	
	227	227	89,0%	89,0%	O	O	O	I	
	228	228	89,4%	89,4%	I	O	O	I	
	229	229	89,8%	89,8%	O	I	O	I	
	230	230	90,2%	90,2%	I	I	O	I	
	231	231	90,6%	90,6%	O	O	I	I	
	232	232	91,0%	91,0%	I	O	I	I	
	233	233	91,4%	91,4%	O	I	I	I	
	234	234	91,8%	91,8%	I	I	I	I	
	235	235	92,2%	92,2%	O	O	O	O	

Effect	DMX value		DMX percentage		Pixel 1/3	Pixel 2/4	DMX mode
Individual Pixel Control (Strobe Blinders)	220	220	86,3%	86,3%	I	O	Standard+ Extended Extended+ Studio
	221	221	86,7%	86,7%	O	I	
	222	222	87,1%	87,1%	I	I	
	223	223	87,5%	87,5%	O	O	

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Color Filter Emulation chart



Macro	DMX value		DMX percentage		Color name	Color number
Color Filter Emulation	90	90	35,3%	35,3%	Med Bast Amber	LEE 004
	91	91	35,7%	35,7%	Med Yellow	LEE 010
	92	92	36,1%	36,1%	Straw Tint	LEE 013
	93	93	36,5%	36,5%	Surprise Peach	LEE 017
	94	94	36,9%	36,9%	Fire	LEE 019
	95	95	37,3%	37,3%	Med Amber	LEE 020
	96	96	37,6%	37,6%	Gold Amber	LEE 021
	97	97	38,0%	38,0%	Dark Amber	LEE 022
	98	98	38,4%	38,4%	Sunset red	LEE 025
	99	99	38,8%	38,8%	Bright red	LEE 026
	100	100	39,2%	39,2%	Light Pink	LEE 035
	101	101	39,6%	39,6%	Med Pink	LEE 036
	102	102	40,0%	40,0%	Medium Purple	LEE 049
	103	103	40,4%	40,4%	Lt Lavender	LEE 052
	104	104	40,8%	40,8%	Lavender	LEE 058
	105	105	41,2%	41,2%	Sky Blue	LEE 068
	106	106	41,6%	41,6%	Tokyo Blue	LEE 071
	107	107	42,0%	42,0%	Just Blue	LEE 079
	108	108	42,4%	42,4%	Lime Green	LEE 088
	109	109	42,7%	42,7%	Moss Green	LEE 089
	110	110	43,1%	43,1%	Dk Yellow/Green	LEE 090
	111	110	43,5%	43,1%	Spring Yellow	LEE 100
	112	112	43,9%	43,9%	Lt Amber	LEE 102
	113	113	44,3%	44,3%	Straw	LEE 103
	114	114	44,7%	44,7%	Deep Amber	LEE 104
	115	115	45,1%	45,1%	Orange	LEE 105
	116	116	45,5%	45,5%	Primary Red	LEE 106
	117	117	45,9%	45,9%	Lt. Rose	LEE 107
	118	118	46,3%	46,3%	English Rose	LEE 108
	119	119	46,7%	46,7%	Lt. Salmon	LEE 109
	120	120	47,1%	47,1%	Middle Rose	LEE 110
	121	121	47,5%	47,5%	Dark Pink	LEE 111
	122	122	47,8%	47,8%	Magenta	LEE 113
	123	123	48,2%	48,2%	Peacock Blue	LEE 115
	124	124	48,6%	48,6%	Med Blue-Green	LEE 116
	125	125	49,0%	49,0%	Steel Blue	LEE 117
	126	126	49,4%	49,4%	Light Blue	LEE 118
	127	127	49,8%	49,8%	Dark Blue	LEE 119
	128	128	50,2%	50,2%	Deep Blue	LEE 120
	129	129	50,6%	50,6%	Lee Green	LEE 121
	130	130	51,0%	51,0%	Fern Green	LEE 122
	131	131	51,4%	51,4%	Dark Green	LEE 124
	132	132	51,8%	51,8%	Mauve	LEE 126
	133	133	52,2%	52,2%	Bright Pink	LEE 128
	134	134	52,5%	52,5%	Marine Blue	LEE 131
	135	135	52,9%	52,9%	Med Blue	LEE 132
	136	136	53,3%	53,3%	Golden Amber	LEE 134
137	137	53,7%	53,7%	Deep Golden Amber	LEE 135	
138	138	54,1%	54,1%	Pale Lavender	LEE 136	
139	139	54,5%	54,5%	Spec Lavender	LEE 137	
140	140	54,9%	54,9%	Pale Green	LEE 138	
141	141	55,3%	55,3%	Primary Green	LEE 139	
142	142	55,7%	55,7%	Summer Blue	LEE 140	
143	143	56,1%	56,1%	Bright Blue	LEE 141	
144	144	56,5%	56,5%	Pale Navy Blue	LEE 143	
145	145	56,9%	56,9%	Apricot	LEE 147	
146	146	57,3%	57,3%	Bright Rose	LEE 148	
147	147	57,6%	57,6%	Pale Gold	LEE 152	

Macro	DMX value		DMX percentage		Color name	Color number
Color Filter Emulation	148	148	58,0%	58,0%	Pale Rose	LEE 154
	149	149	58,4%	58,4%	Pink	LEE 157
	150	150	58,8%	58,8%	Deep Orange	LEE 158
	151	151	59,2%	59,2%	Slate Blue	LEE 161
	152	152	59,6%	59,6%	Bastard Amber	LEE 162
	153	153	60,0%	60,0%	Flame Red	LEE 164
	154	154	60,4%	60,4%	Daylight Blue	LEE 165
	155	155	60,8%	60,8%	Lilac Tint	LEE 169
	156	156	61,2%	61,2%	Deep Lavender	LEE 170
	157	157	61,6%	61,6%	Lagoon Blue	LEE 172
	158	158	62,0%	62,0%	Dk Steel Blue	LEE 174
	159	159	62,4%	62,4%	Chrome Orange	LEE 179
	160	160	62,7%	62,7%	Dark Lavendar	LEE 180
	161	161	63,1%	63,1%	Congo Blue	LEE 181
	162	162	63,5%	63,5%	Light Red	LEE 182
	163	163	63,9%	63,9%	Surprise Pink	LEE 194
	164	164	64,3%	64,3%	Alice Blue	LEE 197
	165	165	64,7%	64,7%	Double C.T. Blue	LEE 200
	166	166	65,1%	65,1%	Full C.T. Blue	LEE 201
	167	167	65,5%	65,5%	1/2 C.T. Blue	LEE 202
	168	168	65,9%	65,9%	1/4 C.T. Blue	LEE 203
	169	169	66,3%	66,3%	Full C.T. Orange	LEE 204
	170	170	66,7%	66,7%	1/4 C.T. Orange	LEE 206
	171	171	67,1%	67,1%	Fluorescent Green	LEE 219
	172	172	67,5%	67,5%	Lee Minus Green	LEE 247
	173	173	67,8%	67,8%	1/2 Minus Green	LEE 248
	174	174	68,2%	68,2%	3/4 C.T. Blue	LEE 281
	175	175	68,6%	68,6%	3/4 C.T. Orange	LEE 285
	176	176	69,0%	69,0%	Follies Pink	LEE 328
	177	177	69,4%	69,4%	S Spec Rose Pink	LEE 332
	178	178	69,8%	69,8%	Fuchsia Pink	LEE 345
	179	179	70,2%	70,2%	Glacier Blue	LEE 352
	180	180	70,6%	70,6%	Lighter Blue	LEE 353

Q-8 CTC chart

