

G-4 Motorized Barndoors RGBAM - DMX Protocol



Protocol Rev. 0.9

Mode
Default (23 Channels)

Valid From Firmware Version
01.01

Channel	Name	DMX Value	DMX Percentage	Description	Info	Default DMX Value	Fader Type		
1	SHUTTER	0	7	0,0%	2,7%	Closed	10 (3,9%)	Snap	
		8	17	3,1%	6,7%	Open			
		18	88	7,1%	34,5%	Strobe			Slow -> Fast
		89	108	34,9%	42,4%	Pulse - Open			Slow -> Fast
		109	128	42,7%	50,2%	Pulse - Close			Slow -> Fast
		129	178	50,6%	69,8%	Strobe - Random			
		179	198	70,2%	77,6%	Random Lightning			Fast -> Slow
		199	208	78,0%	81,6%	Random Double Strobe			Fast -> Slow
		209	218	82,0%	85,5%	Random Triple Strobe			Fast -> Slow
		219	228	85,9%	89,4%	White Noise			Fast -> Slow
229	255	89,8%	100,0%	Open					
2	3	0	65535	0,0%	100,0%	No LIGHT -> Maximum LIGHT	0 (0%)	Fade	
3									
4	MACRO	0	4	0,0%	1,6%	Disabled	0 (0%)	Fade	
		5	9	2,0%	3,5%	Congo - (G-1 Beam Color 1)			With Filter See Note ①
		10	14	3,9%	5,5%	Red - (G-1 Beam Color 2)			Emulated
		15	19	5,9%	7,5%	Green - (G-1 Beam Color 3)			
		20	24	7,8%	9,4%	Blue - (G-1 Beam Color 4)			
		25	29	9,8%	11,4%	Orange - (G-1 Beam Color 5)			
		30	34	11,8%	13,3%	Light Green - (G-1 Beam Color 6)			
		35	39	13,7%	15,3%	Pink - (G-1 Beam Color 7)			
		40	44	15,7%	17,3%	Light Blue - (G-1 Beam Color 8)			
		45	49	17,6%	19,2%	Purple - (G-1 Beam Color 9)			
		50	54	19,6%	21,2%	Neon Green - (G-1 Beam Color 10)			
		55	59	21,6%	23,1%	Magenta - (G-1 Beam Color 11)			
		60	64	23,5%	25,1%	Cyan - (G-1 Beam Color 12)			
		65	69	25,5%	27,1%	Yellow - (G-1 Beam Color 13)			
		70	74	27,5%	29,0%	CTC - (G-1 Beam Color 14)			
		75	79	29,4%	31,0%	Color Scroll CCW (Same as G-1 Beam)			
		80	84	31,4%	32,9%	Color Scroll CW (Same as G-1 Beam)			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	244	71,0%	95,7%	Reserved					
245	249	96,1%	97,6%	RAW Amber	See Note ②				
250	255	98,0%	100,0%	RAW Mint					
5	6	0	65535	0,0%	100,0%	No RED -> Maximum RED	255 (100%)	Fade	
6									
7	8	0	65535	0,0%	100,0%	No GREEN -> Maximum GREEN	255 (100%)	Fade	
8									
9	10	0	65535	0,0%	100,0%	No BLUE -> Maximum BLUE	255 (100%)	Fade	
10									
11	CTC	0	0	0,0%	0,0%	≈ 5600° K	182 (71,3%)	Fade	
		1	4	0,4%	1,6%	No CTC (RAW)			
		5	255	2,0%	100,0%	CTC 2000K -> 10000K			See CTC chart for values

Channel	Name	DMX Value	DMX Percentage	Description	Info	Default DMX Value	Fader Type		
12 13	PAN	Depending On Pan Mode							
		0	65535	0,0%	100,0%	-270° to 270° / 540° Mode	540°	32767 (50%)	Fade
		0	65535	0,0%	100,0%	-180° to 180° / 360° Mode	360°		
		0	65535	0,0%	100,0%	-180° to 180° / 360° Mode (Shortest Path)	360° Shortest Path		
		Pan Mode Continuous Rotation							
		0	32766	0,0%	49,9%	CCW - Counter Clockwise	Fast -> Slow	32767 (50%)	Fade
		32767	32767	50,0%	50,0%	Stopped	Stopped		
32768	65535	50,1%	100,0%	CW - Clockwise	Slow -> Fast				
14 15	TILT	0	65535	0,0%	100,0%	Tilt 0° to 213°	32767 (50%)	Fade	
16	PAN MODE	0	7	0,0%	2,7%	540° Mode	See Note ③	0 (0%)	Snap
		8	15	3,1%	5,9%	360° Mode			
		16	23	6,3%	9,0%	360° Shortest Path Mode			
		24	31	9,4%	12,2%	Continuous Rotation Mode			
		32	143	12,5%	56,1%	Reserved			
		144	151	56,5%	59,2%	Store Pan/Tilt Position Preset 1	See Note ④	0 (0%)	Snap
		152	159	59,6%	62,4%	Store Pan/Tilt Position Preset 2			
		160	167	62,7%	65,5%	Store Pan/Tilt Position Preset 3			
		168	175	65,9%	68,6%	Store Pan/Tilt Position Preset 4			
		176	183	69,0%	71,8%	Store Pan/Tilt Position Preset 5			
		184	191	72,2%	74,9%	Store Pan/Tilt Position Preset 6			
		192	199	75,3%	78,0%	Store Pan/Tilt Position Preset 7			
		200	207	78,4%	81,2%	Store Pan/Tilt Position Preset 8			
		208	215	81,6%	84,3%	Store Pan/Tilt Position Preset 9			
		216	223	84,7%	87,5%	Sequential Stored Position Preset Fade	Slow -> Fast		
		224	231	87,8%	90,6%	Sequential Stored Position Preset Snap	Slow -> Fast		
		232	239	91,0%	93,7%	Random Stored Position Preset Fade	Slow -> Fast		
240	247	94,1%	96,9%	Random Stored Position Preset Snap	Slow -> Fast				
248	255	97,3%	100,0%	540° Mode					
17	ZOOM	0	255	0,0%	100,0%	Narrow -> Wide	128 (50%)	Fade	
18	Blade 1	0	255	0,0%	100,0%	Closed -> Open		Fade	
19	Blade 2	0	255	0,0%	100,0%	Closed -> Open		Fade	
20	Blade 3	0	255	0,0%	100,0%	Closed -> Open		Fade	
21	Blade 4	0	255	0,0%	100,0%	Closed -> Open		Fade	
22	Rotation	0	255	0,0%	100,0%			Fade	
23	CONTROL CHANNEL	0	4	0,0%	1,6%	No Function	0 (0%)	Snap	
		5	9	2,0%	3,5%	Full Reset			
		10	14	3,9%	5,5%	Pan Reset			
		15	19	5,9%	7,5%	Tilt Reset			
		20	24	7,8%	9,4%	Head Reset			
		25	29	9,8%	11,4%	Zoom Reset			
		30	34	11,8%	13,3%	Reserved			
		35	39	13,7%	15,3%	Display On	(Hold for 3 sec.)	0 (0%)	Snap
		40	44	15,7%	17,3%	Display Off			
		45	49	17,6%	19,2%	Power Off			
		50	54	19,6%	21,2%	Optimized Beam Narrow	See Note ⑤	0 (0%)	Snap
		55	59	21,6%	23,1%	Optimized Beam Wide			
60	255	23,5%	100,0%	Reserved					

The G-4 Wash operates in one mode only

- ① Congo and Red on the color macro channel overwrites the RGB mixcolor and inserts a filter.
- ② Overwrites the RGB mixcolor with Amber only or Mint only.
- ③ The pan channel controls the speed of the rotation when set to pan mode 'continuous rotation' (FULL CCW - STOP - FULL CW).
- ④ When storing internal position presets by DMX hold the value on the pan-mode channel for 3 sec.
- ⑤ Set and hold value to optimize performance for narrow or wide beam.