

S-4 Fresnel RGBAM - DMX Protocol



Protocol Rev. 0.9

Mode
Standard (13 Channel Mode)

Valid From Firmware Version
01.02

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			Fast -> Slow	
		89	108	34,9%	42,4%	Random Pulse - Open			Fast -> Slow	
		109	128	42,7%	50,2%	Random Pulse Close			Fast -> Slow	
		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	INTENSITY	0	65535	0,0%	100,0%	0-100% intensity	0 (0%)	Fade	
3										
4	MACRO	0	4	0,0%	1,6%	Open	Emulated	0 (0%)	Snap	
		5	9	2,0%	3,5%	Congo - (G-1 Beam Color 1)				
		10	14	3,9%	5,5%	Red - (G-1 Beam Color 2)				See Note ①
		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%	Green - (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)	Fast -> Slow			
		80	84	31,4%	32,9%	Color Scroll CW (Same as G-1 Beam)	Slow -> Fast			
		85	89	33,3%	34,9%	Random Color	Emulated			
		90	180	35,3%	70,6%	Color Filter Emulation	See Color Filter Emulation Chart			
		181	199	71,0%	78,0%	Minus Green	See Note ②	0 (0%)	Fade	
200	200	78,4%	78,4%	Neutral						
201	219	78,8%	85,9%	Plus Green						
220	244	86,3%	95,7%	Reserved						
245	249	96,1%	97,6%	RAW Amber						
250	255	98,0%	100,0%	RAW Mint						
5	6	RED	0	65535	0,0%	100,0%	0-100% Red intensity	255 (100%)	Fade	
6										
7	8	GREEN	0	65535	0,0%	100,0%	0-100% Green intensity	255 (100%)	Fade	
8										
9	10	BLUE	0	65535	0,0%	100,0%	0-100% Blue intensity	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	Zoom	0	249	0,0%	97,6%	0-100 Zoom	Narrow -> Wide	124 (50%)	FADE
		250	255	98,0%	#####	Zoom Potmeter takes over control			
13	Function	0	4	0,0%	1,6%	No Function	See Note ③	32767 (50%)	Fade
		5	9	2,0%	3,5%	Full Reset			
		10	14	3,9%	5,5%	Reserved			
		15	19	5,9%	7,5%	Reserved			
		20	24	7,8%	9,4%	Head Reset			
		25	29	9,8%	11,4%	Zoom Focus Reset			
		35	39	13,7%	15,3%	Display On			
		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			
		55	59	21,6%	23,1%	Optimized beam wide			
60	255	23,5%	100,0%	Reserved					

- 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 Set and hold value to optimize performance for narrow or wide beam.