2.7 DMX Protocol

Color Force DMX Personality Mode 1:

Color Force	In mode 1 grouping is variable.			
V2.2	Mode 1			
	Color Force 72 (43ch)	Color Force 48 (31ch)		
	7fx + 12 x HSI	7fx + 8 x HSI		
Channel 1	Grouping 0-100 Variable grouping range between 1-12 cells with FX running within the group. 102-206 Variable grouping range between 1-12 cells with	Grouping 0-100 Variable grouping range between 1-8 cells with FX running within the group. 102-206 Variable grouping range between 1-8 cells with		
	FX running between the grouping range for every 2 nd to every 12 th cells in a group.	FX running between the groups. 209-255 Variable interval grouping range for every 2 nd to every 8 th cells in a group.		
Channel 2	Colour Speed 0-255 Variable speed of colour scrolling. From static at 0 to r (Intensity Master when on Mode 7fx + 12 x RGB(A) and Ch5 a			
Channel 3	Colour Fan 0-255 Variable fan of colour between / within groups. All unit	s are the same colour at 0.		
Channel 4	Colour Range 0 Full spectrum 1-255 Variable limit of spectrum for colour scrolling. Single c	olour at 1, full spectrum at 255.		
Channel 5	Colour Step 0-255 Variable control of smoothness of colour scrolling. Sm- scrolling speed. 255 will override effects and switch to RGB. (Mode 7fx + 12 x RGB(A) is activated when this Ch is at Full a	pothest is at 0. Most coarse is at 250. Rate will vary with		
Channel 6	Intensity Effects 0 Static 1-63 Fade on, fade off. Variable, 63 fastest 64-127 Fade on, snap off. Variable, 127 the fastest 128-191 Snap on, fade off. Variable, 191 fastest 192-255 Snap on, snap off (strobe). Variable, 255 fastest.			
Channel 7	Intensity Fan 0-255 Variable fan of intensity effect between / within groups at 255.	All units at the same intensity at 0. Alternating units on & off		
Channel 8	Hue for group 1			
Channel 9	Saturation for group 1			
Channel 10	Intensity for group 1			
Channel 11	Hue for group 2			
Channel 12	Saturation for group 2			
Channel 13	Intensity for group 2			
	and so on up to group 12	and so on up to group 8		
Total	43 DMX channels	31 DMX channels		

Color Force DMX Personality Mode 2-3

Color Force	In modes 2 & 3 each cell is a group.				
V2.2	Mode 2		Mode 3		
			(with Magi	c Amber)	
	Color Force 72 (36ch) 12 x HSI	Color Force 48 (24ch)	Color Force 72 (36ch)	Color Force 48 (24ch)	
		8 x HSI 12 x RGB 8 x RGI	8 x RGB		
Channel 1	Hue for group 1		Red for group 1		
Channel 2	Saturation for group 1		Green for group 1		
Channel 3	Intensity for group 1		Blue for group 1		
Channel 4	Hue for group 2		Red for group 2		
Channel 5	Saturation for group 2		Green for group 2		
Channel 6	Intensity for group 2		Blue for group 2		
Channel 7	Hue for group 3		Red for group 3		
Channel 8	Saturation for group 3		Green for group 3		
Channel 9	Intensity for group 3		Blue for group 3		
Channel 10	Hue for group 4		Red for group 4		
Channel 11	Saturation for group 4		Green for group 4		
Channel 12	Intensity for group 4		Blue for group 4		
Channel 13	Hue for group 5		Red for group 5		
	and so on up to group 12	and so on up to group 8	and so on up to group 12	and so on up to group 8	
Total	36 DMX channels	24 DMX channels	36 DMX channels	24 DMX channels	

Color Force DMX Personality Mode 4-5.

Color Force	In modes 4-5 each cell is a group.				
V2.2	Mode 4		Mode 5 (with Magic Amber)		
	Color Force 72 (48ch)	Color Force 48 (32ch)	Color Force 72 (49ch)	Color Force 48 (33ch)	
	12 x RGBA	8 x RGBA	1s + 12 x RGBI	1s + 8 x RGBI	
Channel 1	Red for group 1		Intensity Effects 0 Static 1-63 Fade on, fade off. Variate 64-127 Fade on, snap off. Va 128-191 Snap on, fade off. V 192-255 Snap on, snap off (S	riable, 127 fastest ariable, 191 fastest.	
Channel 2	Green for group 1		Red for group 1	,	
Channel 3	Blue for group 1		Green for group 1		
Channel 4	Amber for group 1		Blue for group 1		
Channel 5	Red for group 2		Intensity for group 1		
Channel 6	Green for group 2		Red for group 2		
Channel 7	Blue for group 2		Green for group 2		
Channel 8	Amber for group 2		Blue for group 2		
Channel 9	Red for group 3		Intensity for group 2		
Channel 10	Green for group 3		Red for group 3		
Channel 11	Blue for group 3		Green for group 3		
Channel 12	Amber for group 3		Blue for group 3		
Channel 13	Red for group 4		Intensity for group 3		
	and so on up to group 12	and so on up to group 8	and so on up to group 12	and so on up to group 8	
Total	48 DMX channels	32 DMX channels	49 DMX channels	33 DMX channels	

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Color Force DMX Personality Mode 6.

Color Force	In mode 6 all cells are a group (All)		
V2.2	Mode 6		
	Color Force 72 & 48 (9ch)		
	6fx + HSI		
Channel 1	Colour Speed		
	0-255 Variable speed of colour scrolling. From static at 0 to maximum at 255.		
	(This channel becomes Intensity Master when on Mode 6fx + 12 x RGB(A) and Ch4 at Full)		
Channel 2	Colour Fan		
	0-255 Variable fan of colour between groups. All units are the same colour at 0.		
Channel 3	Colour Range		
	0 Full spectrum		
	1-255 Variable limit of spectrum for colour scrolling. Single colour at 1, full spectrum at 255.		
Channel 4	Colour Step		
	0-255 Variable control of smoothness of colour scrolling. Smoothest is at 0. Most coarse is at 250. Rate will vary with		
	scrolling speed. 255 will override effects and switch to RGB.		
	(Mode 6fx + 12 x RGB(A) is activated when this Ch is at Full and Ch1 becomes Master Intensity)		
Channel 5	Intensity Effects		
	O Static		
	1-63 Fade on, fade off. Variable, 63 fastest		
	64-127 Fade on, snap off. Variable, 127 fastest		
	128-191 Snap on, fade off. Variable, 191 fastest.		
	192-255 Snap on, snap off (strobe). Variable, 255 fastest		
Channel 6	Intensity Fan		
	0-255 Variable fan of intensity effect between groups. All units at the same intensity at 0. Alternating units on and off at		
	255.		
Channel 7	Hue		
Channel 8	Saturation		
Channel 9	Intensity		
Total	9 DMX channels		

Color Force DMX Personality Mode 7-9

Color Force	In modes 7-9 all cells are a group (All)			
V2.2	Mode 7 (3ch) Color Force 72 & 48	Mode 8 (3ch) Color Force 72 & 48	Mode 9 (4ch) Color Force 72 & 48	
	HSI	RGB	RGBA	
		(with Magic Amber)		
Channel 1	Hue	Red	Red	
Channel 2	Saturation	Green	Green	
Channel 3	Intensity	Blue	Blue	
Channel 4			Amber	
Total	3 DMX channels	3 DMX channels	4 DMX channels	

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Color Force DMX Personality Mode 10

Color Force	In mode 10 all cells are a group (All)			
V2.2	Mode 10			
	Color Force 72 & 48 (5ch)			
	1s + RGBI (with Magic Amber)			
Channel 1	Intensity Effects O Static			
	1-63 Fade on, fade off. Variable range, 63 the fastest 64-127 Fade on, snap off. Variable range, 127 the fastest			
	128-191 Snap on, fade off. Variable range, 191 the fastest. 192-255 Snap on, snap off (strobe). Variable range, 255 the fastest.			
Channel 2	Red			
Channel 3	Green			
Channel 4	Blue			
Channel 5	Intensity			
Total	5 DMX channels			

Color Force DMX Personality Mode 11

Color Force			Mode	
V2.2			Color Force 72	& 48 (1ch)
	Look Select			
Channel 1	Channel levels and the corresponding Look numbers:			
	Channel Level (%)	Look	Description	
	0	OFF	2000-1-000	
	1–2	1	Full Colour Scroll (5 sec)	
	3–5	2	Full Colour Scroll (10 sec)	
	6–9	3	Full Colour Scroll (30 sec)	
	10–11	4	Warm Colour Scroll (5 sec)	
	12–15	5	Warm Colour Scroll (10 sec)	
	16–19	6	Warm Colour Scroll (30 sec)	
	20–22	7	Cold Colour Scroll (5 sec)	
	23-25	8	Cold Colour Scroll (10 sec)	
	26–27	9	Color Colour Scroll (30 sec)	
	29-32	10	Red Full	
	33–35	11	Pink Full	
	36-38	12	Orange Full	
	39-42	13	Light Orange Full	
	43-45	14	Yellow Full	
	46-48	15	Light Yellow Full	
	49-51	16	Green Full	
	52-54	17	Light Green Full	
	56-58	18	Cyan Full	
	59-61	19	Light Cyan Full	
	62-64	20	Blue Full	
	65-68	21	Light Blue Full	
	69-71	22	3200 White	
	72-74	23	5600 White	
	75-78	24	Empty	
	79-81	25	Empty	
	83-85	26	Empty	
	86-88	27	Empty	
	89-91	28	Empty	
	92-94	29	Empty	
	95-97	30	Empty	
	98-100	31	Empty	