



Nova P600c

DMX Profile Specification

Controller Firmware V1.5

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Mode 1: CCT & RGB 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	CCT	2000 K - 10000 K
3	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
4	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
8	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	8 - 100		1 Hz - 25 Hz

Mode 2: CCT 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	CCT	2000 K - 10000 K
3	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
4	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	8 - 100		1 Hz - 25 Hz

Mode 3: CCT & HSI 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	CCT	2000 K - 10000 K
3	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
245 - 255	97 - 100			
4	0 - 255	0 - 100	CCT ↔ HSI	Crossfade to Color
5	0 - 255	0 - 100	Hue	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
8	0 - 19	0 - 7	Strobe	No Effect 1 Hz - 25 Hz
	20 - 255	80 - 100		

Mode 4: RGB 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	Red	0 - 100%
3	0 - 255	0 - 100	Green	0 - 100%
4	0 - 255	0 - 100	Blue	0 - 100%
5	0 - 19	0 - 7	Strobe	No Effect 1 Hz - 25 Hz
	20 - 255	80 - 100		

Mode 5: HSI 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	Hue	1° - 360°
3	0 - 255	0 - 100	Saturation	0 - 100%
4	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
5	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 6: GEL 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 126 127 - 255	0 - 50 51 - 100	CCT	3200K 5600K
3	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco / Lee	Rosco Lee Reserved
4	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	Series	R - Col.corr. / L - Col.corr. R - CalColor / L - Col.Filters R - Storaro / L - 600 Series R - Cinelux / L - Cosmetic R - Reserved / L - 700 Series Reserved
5	0 - 255	0 - 100	Category	See GEL Category Tables in Following Pages
6	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

GEL Category 1: Rosco - Color Correction

Channel	Value	GEL Name	GEL Number
	0 - 1	Full CTB	3202
	2 - 3	3/4 CTB	3203
	4 - 5	1/2 CTB	3204
	6 - 7	1/3 CTB	3206
	8 - 9	1/4 CTB	3208
	10 - 11	1/8 CTB	3216
	12 - 13	Double CTB	3220
	14 - 15	Full CTO	3407
	16 - 17	3/4 CTO	3411
	18 - 19	1/2 CTO	3408
	20 - 21	1/4 CTO	3409
	22 - 23	1/8 CTO	3410
	24 - 25	Double CTO	3420
	26 - 27	Full CTS	3441
	28 - 29	1/2 CTS	3442
8-bit: 5	30 - 31	1/4 CTS	3443
	32 - 33	1/8 CTS	3444
16-bit: 6	34 - 35	Full Plusgreen	3304
	36 - 37	1/2 Plusgreen	3315
	38 - 39	1/4 Plusgreen	3316
	40 - 41	1/8 Plusgreen	3317
	42 - 43	Full Minusgreen	3308
	44 - 45	3/4 Minusgreen	3309
	46 - 47	1/2 Minusgreen	3313
	48 - 49	1/4 Minusgreen	3314
	50 - 51	1/8 Minusgreen	3318
	52 - 53	Fluorofilter	3310
	54 - 55	industrial Vapor	3150
	56 - 57	Urban Vapor	3152
	58 - 59	Tough Y1	3107
	60 - 61	Tough MT 54	3134
	62 - 63	Tough MTY	3106
	64 - 65	Tough MT2	3102
	66 - 255	Reserved	

GEL Category 2: Rosco - CalColor

Channel	Value	GEL Name	GEL Number	
8-bit: 5	0 - 1	15 Blue	4215	
	2 - 3	30 Blue	4230	
	4 - 5	60 Blue	4260	
	6 - 7	90 Blue	4290	
	8 - 9	7 Cyan	4307	
	10 - 11	15 Cyan	4315	
	12 - 103	30 Cyan	4330	
	14 - 15	60 Cyan	4360	
	16 - 17	90 Cyan	4390	
	18 - 19	15 Green	4415	
	20 - 21	30 Green	4430	
	22 - 23	60 Green	4460	
	24 - 25	90 Green	4490	
	26 - 27	15 Yellow	4515	
	28 - 29	30 Yellow	4530	
	30 - 31	60 Yellow	4560	
	32 - 33	90 Yellow	4590	
	16-bit: 6	34 - 35	15 Red	4615
		36 - 37	30 Red	4630
		38 - 39	60 Red	4660
		40 - 41	90 Red	4690
		42 - 43	15 Magenta	4715
		44 - 45	30 Magenta	4730
		46 - 47	60 Magenta	4760
		48 - 49	90 Magenta	4790
		50 - 51	15 Pink	4815
		52 - 53	30 Pink	4830
		54 - 55	60 Pink	4860
		56 - 57	90 Pink	4890
		58 - 59	15 Lavender	4915
		60 - 61	30 Lavender	4930
		62 - 63	60 Lavender	4960
	64 - 65	90 Lavender	4990	
66 - 255	Reserved			

GEL Category 3: Rosco - Storaro Selection

Channel	Value	GEL Name	GEL Number	
8-bit: 5	0 - 1	VS Red	2001	
	2 - 3	VS Orange	2002	
	4 - 5	VS Yellow	2003	
	6 - 7	VS Green	2004	
	8 - 9	VS Cyan	2005	
	10 - 11	VS Azure	2006	
	16-bit: 6	12 - 13	VS Blue	2007
		14 - 15	VS indigo	2008
		16 - 17	VS Violet	2009
		18 - 19	VS Magenta	2010
20 - 255		Reserved		

GEL Category 4: Rosco - Cinelux

Channel	Value	GEL Name	GEL Number
8-bit: 5	0 - 1	Bastard Amber	02
	2 - 3	Pale Bastard Amber	302
	4 - 5	No Color Straw	06
	6 - 7	Pale Gold	08
	8 - 9	Daffodil	310
	10 - 11	Straw	12
	12 - 13	Light Amber	16
	14 - 15	Gallo Gold	316
	16 - 17	Light Flame	17
	18 - 19	Flame	18
16-bit: 6	20 - 21	Mayan Sun	318
	22 - 23	Golden Amber	21
	24 - 25	Soft Golden Amber	321
	26 - 27	Orange	23
	28 - 29	Henna Sky	325
	30 - 31	Light Red	26
	32 - 33	No Color Pink	33
	34 - 35	Blush Pink	333
	36 - 37	Flesh Pink	34
	38 - 39	Pale Rose Pink	37

GEL Category 4: Rosco - Cinelux, continued

Channel	Value	GEL Name	GEL Number
	40 - 41	Salmon	41
	42 - 43	Deep Salmon	42
	44 - 45	Middle Rose	44
	46 - 47	Light Rose Purple	47
	48 - 49	Surprise Pink	51
	50 - 51	No Color Blue	60
	52 - 53	Clearwater	360
	54 - 55	Booster Blue	62
	56 - 57	Tipton Blue	362
	58 - 59	Blue Bell	364
	60 - 61	Daylight Blue	65
	62 - 63	Tharon Delft Blue	365
8-bit: 5	64 - 65	Cerulean Blue	375
	66 - 67	Bermuda Blue	376
16-bit:6	68 - 69	Green Blue	77
	70 - 71	Alice Blue	378
	72 - 73	Primary Blue	80
	74 - 75	Baldassari Blue	381
	76 - 77	Medium Blue	83
	78 - 79	Pale Yellow Green	87
	80 - 81	Light Green	88
	82 - 83	Moss Green	89
	84 - 85	Primary Green	91
	86 - 87	Turquoise	92
	88 - 89	Blue Green	93
	90 - 91	Chocolate	99
	92 - 255	Reserved	

GEL Category 1: LEE - Color Correction

Channel	Value	GEL Name	GEL Number	
8-bit: 5	0 - 1	Double CTB	200	
	2 - 3	Full CTB	201	
	4 - 5	3 / 4 CTB	281	
	6 - 7	1 / 2 CTB	202	
	8 - 9	1 / 4 CTB	203	
	10 - 11	1 / 8 CTB	218	
	12 - 13	Double CTO	287	
	14 - 15	Full CTO	204	
	16 - 17	3 / 4 CTO	285	
	18 - 19	1 / 2 CTO	205	
	20 - 21	1 / 4 CTO	206	
	22 - 23	1 / 8 CTO	223	
	24 - 25	1 1 / 2 CTB	283	
	26 - 27	1 1 / 2 CTO	286	
	28 - 29	Full CTS	441	
	30 - 31	1 / 2 CTS	442	
	32 - 33	1 / 4 CTS	443	
	34 - 35	1 / 8 CTS	444	
	36 - 37	Full CTO + .3 ND	207	
	38 - 39	Full CTO + .6 ND	208	
	16-bit: 6	40 - 41	L.C.T. Yellow (Y1)	212
		42 - 43	White Flame Green	213
		44 - 45	LEE Fluorescent Green	219
		46 - 47	Super Correction L.C.T. Yellow	230
		48 - 49	Super Correction W.F. Green	232
		50 - 51	H.M.I. (to Tungsten)	236
		52 - 53	C.I.D. (to Tungsten)	237
		54 - 55	C.S.I. (to Tungsten)	238
		56 - 57	LEE Fluorescent 5700 Kelvin	241
		58 - 59	LEE Fluorescent 4300 Kelvin	242
		60 - 61	LEE Fluorescent 3600 Kelvin	243
	62 - 63	LEE Plus Green	244	
	64 - 65	1 / 2 Plus Green	245	
	66 - 67	1 / 4 Plus Green	246	
	68 - 69	1 / 8 Plus Green	278	
70 - 71	LEE Minus Green	247		
72 - 73	1 / 2 Minus Green	248		
74 - 75	1 / 4 Minus Green	249		
76 - 77	1 / 8 Minus Green	279		
78 - 255	Reserved			

GEL Category 2: LEE - Color Filters

Channel	Value	GEL Name	GEL Number
8-bit: 5 16-bit: 6	0 - 1	Rose Pink	002
	2 - 3	Lavender Tint	003
	4 - 5	Medium Bastard Amber	004
	6 - 7	Pale Yellow	007
	8 - 9	Dark Salmon	008
	10 - 11	Pale Amber Gold	009
	12 - 13	Medium Yellow	010
	14 - 15	Straw Tint	013
	16 - 17	Surprise Peach	017
	18 - 19	Fire	019
	20 - 21	Medium Amber	020
	22 - 23	Gold Amber	021
	24 - 25	Dark Amber	022
	26 - 27	Scarlet	024
	28 - 29	Sunset Red	025
	30 - 31	Bright Red	026
	32 - 33	Light Pink	035
	34 - 35	Medium Pink	036
	36 - 37	Dark Magenta	046
	38 - 39	Rose Purple	048
	40 - 41	Light Lavender	052
	42 - 43	Paler Lavender	053
	44 - 45	Lavender	058
	46 - 47	Mist Blue	061
	48 - 49	Pale Blue	063
	50 - 51	Sky Blue	068
	52 - 53	Evening Blue	075
	54 - 55	Just Blue	079
	56 - 57	Deeper Blue	085
	58 - 59	Lime Green	088
	60 - 61	Moss Green	089
	62 - 63	Dark Yellow Green	090
	64 - 65	Spring Yellow	100
	66 - 67	Yellow	101
	68 - 69	Light Amber	102

GEL Category 2: LEE - Color Filter, continued

Channel	Value	GEL Name	GEL Number
	70 - 71	Straw	103
	72 - 73	Deep Amber	104
	74 - 75	Primary Red	106
	76 - 77	Light Rose	107
	78 - 79	English Rose	108
	80 - 81	Light Salmon	109
	82 - 83	Middle Rose	110
	84 - 85	Dark Pink	111
	86 - 87	Magenta	113
	88 - 89	Peacock Blue	115
	90 - 91	Steel Blue	117
	92 - 93	Light Blue	118
	94 - 95	Deep Blue	120
	96 - 97	LEE Green	121
	98 - 99	Fern Green	122
	100 - 101	Dark Green	124
8-bit: 5	102 - 103	Smokey Pink	127
	104 - 105	Bright Pink	128
16-bit: 6	106 - 107	Marine Blue	131
	108 - 109	Golden Amber	134
	110 - 111	Deep Golden Amber	135
	112 - 113	Pale Lavender	136
	114 - 115	Special Lavender	137
	116 - 117	Pale Green	138
	118 - 119	Summer Blue	140
	120 - 121	Pale Violet	142
	122 - 123	Pale Navy Blue	143
	124 - 125	No Color Blue	144
	126 - 127	Apricot	147
	128 - 129	Bright Rose	148
	130 - 131	Gold Tint	151
	132 - 133	Pale Gold	152
	134 - 135	Pale Salmon	153
	136 - 137	Pale Rose	154
	138 - 139	Chocolate	156

GEL Category 2: LEE - Color Filter, continued

Channel	Value	GEL Name	GEL Number	
8-bit: 5	140 - 141	Pink	157	
	142 - 143	No Color Straw	159	
	144 - 145	Slate Blue	161	
	146 - 147	Bastard Amber	162	
	148 - 149	Flame Red	164	
	150 - 151	Daylight Blue	165	
	152 - 153	Lilac Tint	169	
	154 - 155	Deep Lavender	170	
	156 - 157	Dark Steel Blue	174	
	158 - 159	Loving Amber	176	
	16-bit: 6	160 - 161	Dark Lavender	180
		162 - 163	Light Red	182
		164 - 165	Flesh Pink	192
		166 - 167	Surprise Pink	194
		168 - 169	Zenith Blue	195
		170 - 171	True Blue	196
		172 - 173	Alice Blue	197
		174 - 175	Palace Blue	198
		176 - 177	Regal Blue	199
	178 - 255	Reserved		

GEL Category 3: LEE - 600 Series

Channel	Value	GEL Name	GEL Number
8-bit: 5	0 - 1	Arctic White	600
	2 - 3	Silver	601
	4 - 5	Plati num	602
	6 - 7	Moonlight White	603
	8 - 9	Full CT 85	604
16-bit: 6	10 - 11	industry Sodium	650
	12 - 13	HI Sodium	651
	14 - 15	Urban Sodium	652
	16 - 17	LO Sodium	653
	18 - 255	Reserved	

GEL Category 4: LEE - Cosmetic Filters

Channel	Value	GEL Name	GEL Number	
8-bit: 5	0 - 1	Cosmetic Peach	184	
	2 - 3	Cosmetic Silver Rose	186	
	4 - 5	Cosmetic Rouge	187	
	6 - 7	Cosmetic Highlight	188	
	8 - 9	Cosmetic Silver Moss	189	
	10 - 11	Cosmetic Aqua Blue	191	
	12 - 13	Lily Frost	705	
	14 - 15	Shanklin Frost	717	
	16 - 17	Half Shanklin Frost	718	
	18 - 19	Durham Daylight Frost	720	
	16-bit: 6	20 - 21	Hampshire Rose	749
		22 - 23	Durham Frost	750
		24 - 25	Soft Amber Key 1	774
		26 - 27	Soft Amber Key 2	775
		28 - 29	Moroccan Frost	791
		30 - 31	Blue Diffusion	217
		32 - 33	Blue Frost	221
34 - 35		Daylight Blue Frost	224	
36 - 255	Reserved			

GEL Category 5: LEE - 700 Series

Channel	Value	GEL Name	GEL Number
8-bit: 5 16-bit: 6	0 - 1	Perfect Lavender	700
	2 - 3	Provence	701
	4 - 5	Special Pale Lavender	702
	6 - 7	Cold Lavender	703
	8 - 9	Lily	704
	10 - 11	King Fals Lavender	706
	12 - 13	Cool Lavender	708
	14 - 15	Electric Lilac	709
	16 - 17	Spir Special Blue	710
	18 - 19	Cold Blue	711
	20 - 21	Bedford Blue	712
	22 - 23	Elysian Blue	714
	24 - 25	Cabana Blue	715
	26 - 27	Mikkel Blue	716
	28 - 29	Colour Wash Blue	719
	30 - 31	Berry Blue	721
	32 - 33	Virgin Blue	723
	34 - 35	Ocean Blue	724
	36 - 37	Old Steel Blue	725
	38 - 39	Steel Green	728
	40 - 41	Liberty Green	730
	42 - 43	Dirty Ice	731
	44 - 45	Damp Squib	733
	46 - 47	JAS Green	738
	48 - 49	Bram Brown	742
	50 - 51	Dirty White	744
	52 - 53	Brown	746
	54 - 55	Easy White	747
	56 - 57	Seedy Pink	748
	58 - 59	Wheat	763
	60 - 61	Sun Colour Straw	764
	62 - 63	LEE Yellow	765
	64 - 65	Cardbox Amber	773
	66 - 67	Nectarine	776
	68 - 69	Millenium Gold	778
	70 - 71	Bastard Pink	779
	72 - 73	Terry Red	781
	74 - 75	Blood Red	789
	76 - 77	Moroccan Pink	790
	78 - 79	Pretty n'Pink	794
	80 - 81	Magical Magenta	795
	82 - 255	Reserved	

Mode 7: XY 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	X Coordinate	0 - 0.8
3	0 - 255	0 - 100	Y Coordinate	0 - 0.8
4	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 8: Source 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	INT	0 - 100%
2	0 - 2	0 - 1	Source	Tungsten Bulb
	3 - 5	2 - 3		Incandescent
	6 - 8	4 - 5		Halogen
	9 - 11	6 - 7		Antique Bulb
	12 - 14	8 - 9		Warm Antique Bulb
	15 - 17	10 - 11		Christmas Lights
	18 - 20	12 - 13		Night Light
	21 - 23	14 - 15		Infrared Heat Lamp
	24 - 26	16 - 17		Grow Light
	27 - 29	18 - 19		CFL Soft White
	30 - 32	20 - 21		CFL Bright White
	33 - 35	22 - 23		CFL Cool White
	36 - 38	24 - 25		CFL Daylight
	39 - 41	26 - 27		Cool White 1
	42 - 44	28 - 29		Cool White 2
	45 - 47	30 - 31		Cool White 3
	48 - 50	32 - 33		Warm White
51 - 53	34 - 35	CFL Blacklight		
54 - 56	36 - 37	HMI		
57 - 59	38 - 39	High Pressure Sodium		

Mode 8: Source 8-bit, continued

Channel	Value	Percent	Function	
2	60 - 62	40 - 41	Source	Low Pressure Sodium
	63 - 65	42 - 43		Mercury Vapor
	66 - 68	44 - 45		Metal Halide
	69 - 71	46 - 47		Ceramic
	72 - 74	48 - 49		Carbon Arc
	75 - 77	50 - 51		Xenon
	78 - 80	52 - 53		Candle
	81 - 83	54 - 55		Gas Fire
	84 - 86	56 - 57		Sun Direct
	87 - 89	58 - 59		Sun Overcast
	90 - 92	60 - 61		Sun Blue Hour
	93 - 95	62 - 63		Mobile Phone
	96 - 98	64 - 65		Computer Monitor
	99 - 101	66 - 67		Electroluminescence
	102 - 104	68 - 69		Blow Torch
	105 - 107	70 - 71		Road Flare
	108 - 110	72 - 73		Amber Caution
	111 - 113	74 - 75		Green Traffic Light
	114 - 116	76 - 77		Yellow Traffic Light
	117 - 119	78 - 79		Red Traffic Light
120 - 122	80 - 81	Blue Glow Stick		
123 - 125	82 - 83	Green Glow Stick		
126 - 128	84 - 85	Red Glow Stick		
129 - 131	86 - 87	Yellow Glow Stick		
132 - 135	88 - 89	Pink Glow Stick		
136 - 138	90 - 91	Violet Glow Stick		
139 - 255	92 - 100	Reserved		
3	0 - 127	0 - 49	X Coordinate	0.0000 - +0.0050
	128 - 255	50 - 100		0.0000 - - 0.0050
4	0 - 127	0 - 49	Y Coordinate	0.0000 - +0.0050
	128 - 255	50 - 100		0.0000 - - 0.0050
5	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	8 - 100		1 Hz - 25 Hz

Mode 9: FX 8-bit - List of Effects

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 9	0 - 4	FX Selection	Club Lights
	10 - 19	5 - 8		Paparazzi
	20 - 29	9 - 12		Lightning
	30 - 39	13 - 16		TV
	40 - 49	17 - 20		Candle
	50 - 59	21 - 24		Fire
	60 - 69	25 - 28		Strobe
	70 - 79	29 - 32		Explosion
	80 - 89	33 - 36		Faulty Bulb
	90 - 99	37 - 40		Pulsing
	100 - 109	41 - 44		Welding
	110 - 119	45 - 48		Cop Car
	120 - 129	49 - 52		Color Chase
	130 - 139	53 - 56		Party Lights
	140 - 149	57 - 60		Fireworks
	150 - 159	61 - 64		Color Fade
	160 - 169	65 - 68		Color Cycle
	170 - 179	69 - 72		Color Gradient
180 - 189	73 - 76	One Color Chase		
190 - 255	77 - 100	Reserved		
3 - 35	See FX Parameter Tables in Following Pages			

FX Parameter: Club Lights

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	No. of Colors	3
	10 - 19	5 - 8		6
	20 - 29	9 - 12		9
	30 - 39	13 - 16		12
	40 - 49	17 - 20		15
	50 - 59	21 - 24		18
	60 - 69	25 - 28		24
	70 - 79	29 - 32		36
	80 - 255	33 - 100		Reserved
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Paparazzi

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	CCT	2000 K - 10000 K
4	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
5	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	Frequency	1 2 3 4 5 6 7 8 9 10 Reserved
6	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Lightning

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	CCT	2000 K - 10000 K
4	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
5	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
6	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
7	0 - 10	0 - 5	Stop / Trigger / Loop	Stop
	11 - 127	6 - 50		Trigger
	128 - 255	51 - 100		Loop

FX Parameter: TV

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Candle

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Fire

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Strobe

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
6	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
7	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Strobe, continued

Channel	Value	Percent	Function	
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	Speed	1 - 10 - Random
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL				
4	0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
5	0 - 255	0 - 100	Rosco / LEE	
6	0 - 255	0 - 100	Series	
7	0 - 255	0 - 100	Category	
8	0 - 255	0 - 100	Speed	1 - 10 - Random
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY				
4	0 - 255	0 - 100	X coordinate	0 - 0.8
5	0 - 255	0 - 100	Y coordinate	0 - 0.8
6	0 - 255	0 - 100	Speed	1 - 10 - Random
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
Source				
4	0 - 255	0 - 100	Source	See Table in Mode 8: Source
5	0 - 255	0 - 100	Speed	1 - 10 - Random
6	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Strobe, continued

Channel	Value	Percent	Function	
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Speed	1 - 10 - Random
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter:Explosion

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
6	0 - 9	0 - 4	Decay	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
100 - 255	41 - 100	Reserved		
7	0 - 10	0 - 5	Stop / Trigger	Stop
	11 - 127	6 - 50		Trigger
	128 - 255	51 - 100		Reserved

FX Parameter: Explosion, continued

Channel	Value	Percent	Function	
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	Decay	1 - 10
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved
GEL				
4	0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
5	0 - 255	0 - 100	Rosco / LEE	
6	0 - 255	0 - 100	Series	
7	0 - 255	0 - 100	Category	
8	0 - 255	0 - 100	Decay	1 - 10
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved
XY				
4	0 - 255	0 - 100	X coordinate	0 - 0.8
5	0 - 255	0 - 100	Y coordinate	0 - 0.8
6	0 - 255	0 - 100	Decay	1 - 10
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved
Source				
4	0 - 255	0 - 100	Source	See Table in Mode 8: Source
5	0 - 255	0 - 100	Decay	1 - 10
6	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved

FX Parameter: Explosion, continued

Channel	Value	Percent	Function	
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Decay	1 - 10 - Random
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved

FX Parameter: Faulty Bulb

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
6	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
7	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved

FX Parameter: Faulty Bulb, continued

Channel	Value	Percent	Function	
CCT				
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL				
4	0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
5	0 - 255	0 - 100	Rosco / LEE	
6	0 - 255	0 - 100	Series	
7	0 - 255	0 - 100	Category	
8	0 - 255	0 - 100	Frequency	1 - 10 - Random
9	0 - 255	0 - 100	Speed	1 - 10
10	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY				
4	0 - 255	0 - 100	X coordinate	0 - 0.8
5	0 - 255	0 - 100	Y coordinate	0 - 0.8
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

Parameter: Faulty Bulb, continued

Channel	Value	Percent	Function	
Source				
4	0 - 255	0 - 100	Source	See Table in Mode 8: Source
5	0 - 255	0 - 100	Frequency	1 - 10 - Random
6	0 - 255	0 - 100	Speed	1 - 10
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Pulsing

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
6	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
100 - 255	41 - 100	Reserved		
7	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
100 - 255	41 - 100	Reserved		

FX Parameter: Pulsing, continued

Channel	Value	Percent	Function	
8	0 - 10	0 - 5	Stop / Loop	Stop Loop Reserved
	11 - 127	6 - 50		
	128 - 255	51 - 100		
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	Frequency	1 - 10
7	0 - 255	0 - 100	Speed	1 - 10
8	0 - 10	0 - 5	Stop / Loop	Stop Loop Reserved
	11 - 127	6 - 50		
	128 - 255	51 - 100		
GEL				
4	0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
5	0 - 255	0 - 100	Rosco / LEE	
6	0 - 255	0 - 100	Series	
7	0 - 255	0 - 100	Category	
8	0 - 255	0 - 100	Frequency	1 - 10
9	0 - 255	0 - 100	Speed	1 - 10
10	0 - 10	0 - 5	Stop / Loop	Stop Loop Reserved
	11 - 127	6 - 50		
	128 - 255	51 - 100		
XY				
4	0 - 255	0 - 100	X coordinate	0 - 0.8
5	0 - 255	0 - 100	Y coordinate	0 - 0.8
6	0 - 255	0 - 100	Frequency	1 - 10
7	0 - 255	0 - 100	Speed	1 - 10
8	0 - 10	0 - 5	Stop / Loop	Stop Loop Reserved
	11 - 127	6 - 50		
	128 - 255	51 - 100		

FX Parameter: Pulsing, continued

Channel	Value	Percent	Function	
Source				
4	0 - 255	0 - 100	Source	See Table in Mode 8: Source
5	0 - 255	0 - 100	Frequency	1 - 10
6	0 - 255	0 - 100	Speed	1 - 10
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Frequency	1 - 10
8	0 - 255	0 - 100	Speed	1 - 10
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Welding

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Mode Select	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Gel
	30 - 39	13 - 16		X.Y
	40 - 49	17 - 20		Source
	50 - 59	21 - 24		RGB
	60 - 255	25 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
6	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
7	0 - 255	0 - 100	Min Brightness	0 - 75%
8	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Welding, continued

Channel	Value	Percent	Function	
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	Frequency	1 - 10
7	0 - 255	0 - 100	Min Brightness	0 - 75%
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL				
4	0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
5	0 - 255	0 - 100	Rosco / LEE	
6	0 - 255	0 - 100	Series	
7	0 - 255	0 - 100	Category	
8	0 - 255	0 - 100	Frequency	1 - 10
9	0 - 255	0 - 100	Min Brightness	0 - 75%
10	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY				
4	0 - 255	0 - 100	X coordinate	0 - 0.8
5	0 - 255	0 - 100	Y coordinate	0 - 0.8
6	0 - 255	0 - 100	Frequency	1 - 10
7	0 - 255	0 - 100	Min Brightness	0 - 75%
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

Parameter: Welding, continued

Channel	Value	Percent	Function	
Source				
4	0 - 255	0 - 100	Source	See Table in Mode 8: Source
5	0 - 255	0 - 100	Frequency	1 - 10
6	0 - 255	0 - 100	Min Brightness	0 - 75%
7	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
RGB				
4	0 - 255	0 - 100	Red	0 - 100%
5	0 - 255	0 - 100	Green	0 - 100%
6	0 - 255	0 - 100	Blue	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10
8	0 - 255	0 - 100	Min Brightness	0 - 75%
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Cop car

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Color Combinations	Red
	10 - 19	5 - 8		Blue
	20 - 29	9 - 12		Red + Blue
	30 - 39	13 - 16		Blue + White
	40 - 49	17 - 20		Red + Blue + White
	50 - 255	21 - 100		Reserved
4	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Chase

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	Saturation	0 - 100%
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Party Lights

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	Saturation	0 - 100%
4	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Fireworks

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Color Combinations	CCT
	10 - 19	5 - 8		HUE
	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
4	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
5	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Fade

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
7	0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
8	0 - 255	0 - 100	CCT	2000 K - 10000K
9	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
8	0 - 255	0 - 100	HUE	1° - 360°
9	0 - 255	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Fade, Continued

Channel	Value	Percent	Function	
11	0 - 9	0 - 4	Light Board C	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
12	0 - 255	0 - 100	CCT	2000 K - 10000K
13	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
12	0 - 255	0 - 100	HUE	1° - 360°
13	0 - 255	0 - 100	Saturation	0 - 100%
14	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
15	0 - 9	0 - 4	Light Board D	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
16	0 - 255	0 - 100	CCT	2000 K - 10000K
17	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
16	0 - 255	0 - 100	HUE	1° - 360°
17	0 - 255	0 - 100	Saturation	0 - 100%
18	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Fade, Continued

Channel	Value	Percent	Function	
19	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
20	0 - 66	0 - 24	Direction	Left
	67 - 128	25 - 50		Right
	129 - 255	51 - 100		Reserved
21	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Cycle

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Light Board A	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
7	0 - 9	0 - 4	Light Board B	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
8	0 - 255	0 - 100	CCT	2000 K - 10000K
9	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
8	0 - 255	0 - 100	HUE	1° - 360°
9	0 - 255	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Cycle, Continued

Channel	Value	Percent	Function	
11	0 - 9	0 - 4	Light Board C	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
12	0 - 255	0 - 100	CCT	2000 K - 10000K
13	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
12	0 - 255	0 - 100	HUE	1° - 360°
13	0 - 255	0 - 100	Saturation	0 - 100%
14	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
15	0 - 9	0 - 4	Light Board D	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
16	0 - 255	0 - 100	CCT	2000 K - 10000K
17	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
16	0 - 255	0 - 100	HUE	1° - 360°
17	0 - 255	0 - 100	Saturation	0 - 100%
18	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Cycle, Continued

Channel	Value	Percent	Function	
19	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
20	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Gradient

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
7	0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
8	0 - 255	0 - 100	CCT	2000 K - 10000K
9	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
8	0 - 255	0 - 100	HUE	1° - 360°
9	0 - 255	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Gradient, Continued

Channel	Value	Percent	Function	
11	0 - 9	0 - 4	Light Board C	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
12	0 - 255	0 - 100	CCT	2000 K - 10000K
13	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
12	0 - 255	0 - 100	HUE	1° - 360°
13	0 - 255	0 - 100	Saturation	0 - 100%
14	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
15	0 - 9	0 - 4	Light Board D	CCT
	10 - 19	5 - 8		HSI
	20 - 29	9 - 12		Black
	30 - 255	13 - 100		Reserved
CCT				
16	0 - 255	0 - 100	CCT	2000 K - 10000K
17	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
HSI				
16	0 - 255	0 - 100	HUE	1° - 360°
17	0 - 255	0 - 100	Saturation	0 - 100%
18	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Gradient, Continued

Channel	Value	Percent	Function	
19	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
20	0 - 255	0 - 100	Min Brightness	0 - 75%
21	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: One Color Chase

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
4	0 - 255	0 - 100	CCT	2000 K - 10000K
5	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K
7	0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
	10 - 19	5 - 8		
	20 - 29	9 - 12		
	30 - 255	13 - 100		
CCT				
8	0 - 255	0 - 100	CCT	2000 K - 10000K
9	0 - 10	0 - 4	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
	11 - 20	5 - 8		
	21 - 119	9 - 47		
	120 - 145	48 - 57		
	146 - 244	58 - 96		
	245 - 255	97 - 100		
HSI				
8	0 - 255	0 - 100	HUE	1° - 360°
9	0 - 255	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: One Color Chase, continued

Channel	Value	Percent	Function	
11	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
12	0 - 66	0 - 24	Direction	Left
	67 - 128	25 - 50		Right
	129 - 255	51 - 100		Reserved
13	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

Mode 10: WW & RGB 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Warm White	0 - 100%
2	0 - 255	0 - 100	Cool White	0 - 100%
3	0 - 255	0 - 100	Red	0 - 100%
4	0 - 255	0 - 100	Green	0 - 100%
5	0 - 255	0 - 100	Blue	0 - 100%

Mode 11: Light Engine CCT & RGB 8-bit

Channel	Value	Percent	Function	
Light Engine 1				
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	CCT	2000 K - 10000 K
3	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
4	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
5	0 - 255	0 - 100	Red	0 - 100%
6	0 - 255	0 - 100	Green	0 - 100%
7	0 - 255	0 - 100	Blue	0 - 100%
Light Engine 2				
8	0 - 255	0 - 100	Intensity	0 - 100%
9	0 - 255	0 - 100	CCT	2000 K - 10000 K
10	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
11	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
12	0 - 255	0 - 100	Red	0 - 100%
13	0 - 255	0 - 100	Green	0 - 100%
14	0 - 255	0 - 100	Blue	0 - 100%

Mode 11: Light Engine CCT & RGB 8-bit, Continued

Channel	Value	Percent	Function	
Light Engine 3				
15	0 - 255	0 - 100	Intensity	0 - 100%
16	0 - 255	0 - 100	CCT	2000 K - 10000 K
17	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
18	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
19	0 - 255	0 - 100	Red	0 - 100%
20	0 - 255	0 - 100	Green	0 - 100%
21	0 - 255	0 - 100	Blue	0 - 100%
Light Engine 4				
22	0 - 255	0 - 100	Intensity	0 - 100%
23	0 - 255	0 - 100	CCT	2000 K - 10000 K
24	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
245 - 255	97 - 100	Full Plus Green		
25	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
26	0 - 255	0 - 100	Red	0 - 100%
27	0 - 255	0 - 100	Green	0 - 100%
28	0 - 255	0 - 100	Blue	0 - 100%

Mode 12: Light Engine HSI 8-bit

Channel	Value	Percent	Function	
Light Engine 1				
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	Hue	1° - 360°
3	0 - 255	0 - 100	Saturation	0 - 100%
4	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 2				
5	0 - 255	0 - 100	Intensity	0 - 100%
6	0 - 255	0 - 100	Hue	1° - 360°
7	0 - 255	0 - 100	Saturation	0 - 100%
8	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 3				
9	0 - 255	0 - 100	Intensity	0 - 100%
10	0 - 255	0 - 100	Hue	1° - 360°
11	0 - 255	0 - 100	Saturation	0 - 100%
12	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 4				
13	0 - 255	0 - 100	Intensity	0 - 100%
14	0 - 255	0 - 100	Hue	1° - 360°
15	0 - 255	0 - 100	Saturation	0 - 100%
16	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K

Mode 13: Light Engine XY 8-bit

Channel	Value	Percent	Function	
Light Engine 1				
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 255	0 - 100	X Coordinate	0 - 0.8
3	0 - 255	0 - 100	Y Coordinate	0 - 0.8
Light Engine 2				
4	0 - 255	0 - 100	Intensity	0 - 100%
5	0 - 255	0 - 100	X Coordinate	0 - 0.8
6	0 - 255	0 - 100	Y Coordinate	0 - 0.8
Light Engine 3				
7	0 - 255	0 - 100	Intensity	0 - 100%
8	0 - 255	0 - 100	X Coordinate	0 - 0.8
9	0 - 255	0 - 100	Y Coordinate	0 - 0.8
Light Engine 4				
10	0 - 255	0 - 100	Intensity	0 - 100%
11	0 - 255	0 - 100	X Coordinate	0 - 0.8
12	0 - 255	0 - 100	Y Coordinate	0 - 0.8

Mode 14: Ultimate Mode 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 79 90 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 100	Lighting Mode Selection	CCT & RGB CCT CCT & HSI RGB HSI Gel XY Source FX Reserved
3 - 22	See Lighting Mode Parameter Tables in Following Pages			

Lighting Mode Parameter: CCT & RGB

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	CCT	2000 K - 10000 K
4	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
5	0 - 255	0 - 100	CCT ↔ RGB	Crossfade to Color
6	0 - 255	0 - 100	Red	0 - 100%
7	0 - 255	0 - 100	Green	0 - 100%
8	0 - 255	0 - 100	Blue	0 - 100%
9	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: CCT

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	CCT	2000 K - 10000 K
4	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
5	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	8 - 100		1 Hz - 25 Hz

Lighting Mode Parameter: CCT & HSI

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	CCT	2000 K - 10000 K
4	0 - 10	0 - 4	G / M	Neutral / No Effect
	11 - 20	5 - 8		Full Minus Green
	21 - 119	9 - 47		- 99% - - 1%
	120 - 145	48 - 57		Neutral / No Effect
	146 - 244	58 - 96		1% - 99%
	245 - 255	97 - 100		Full Plus Green
5	0 - 255	0 - 100	CCT ↔ HSI	Crossfade to Color
6	0 - 255	0 - 100	Hue	1° - 360°
7	0 - 255	0 - 100	Saturation	0 - 100%
8	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
9	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	80 - 100		1 Hz - 25 Hz

Lighting Mode Parameter: RGB

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	Red	0 - 100%
4	0 - 255	0 - 100	Green	0 - 100%
5	0 - 255	0 - 100	Blue	0 - 100%
6	0 - 19 20 - 255	0 - 7 80 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: HSI

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	Hue	1° - 360°
4	0 - 255	0 - 100	Saturation	0 - 100%
5	0 - 255	0 - 100	HSI Base CCT	2000 K - 10000 K
6	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: GEL

Channel	Value	Percent	Function	
3	0 - 126 127 - 255	0 - 50 51 - 100	CCT	3200K 5600K
4	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco / Lee	Rosco Lee Reserved
5	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	Series	R - Col.corr. / L - Col.corr. R - CalColor / L - Col.Filters R - Storaro / L - 600 Series R - Cinelux / L - Cosmetic R - Reserved / L - 700 Series Reserved
6	0 - 255	0 - 100	Category	See GEL Category Tables in Mode 6: GEL
7	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: XY

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	X Coordinate	0 - 0.8
4	0 - 255	0 - 100	Y Coordinate	0 - 0.8
5	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: Source

Channel	Value	Percent	Function	
3	0 - 255	0 - 100	Source Matching	See Tables in Mode 8: Source
4	0 - 127 128 - 255	0 - 49 50 - 100	X Coordinate	0.0000 - +0.0050 0.0000 - - 0.0050
5	0 - 127 128 - 255	0 - 49 50 - 100	Y Coordinate	0.0000 - +0.0050 0.0000 - - 0.0050
6	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: FX

Channel	Value	Percent	Function	
3	0 - 9	0 - 4	FX Selection	Club Lights
	10 - 19	5 - 8		Paparazzi
	20 - 29	9 - 12		Lightning
	30 - 39	13 - 16		TV
	40 - 49	17 - 20		Candle
	50 - 59	21 - 24		Fire
	60 - 69	25 - 28		Strobe
	70 - 79	29 - 32		Explosion
	80 - 89	33 - 36		Faulty Bulb
	90 - 99	37 - 40		Pulsing
	100 - 109	41 - 44		Welding
	110 - 119	45 - 48		Cop Car
	120 - 129	49 - 52		Color Chase
	130 - 139	53 - 56		Party Lights
	140 - 149	57 - 60		Fireworks
	150 - 159	61 - 64		Color Fade
	160 - 169	65 - 68		Color Cycle
170 - 179	69 - 72	Color Gradient		
180 - 189	73 - 76	One Color Chase		
190 - 255	77 - 100	Reserved		
4 - 22	See FX Parameter Tables in Mode 9: FX 8-bit			

Mode 15: CCT & RGB 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	CCT	2000 K - 10000 K
5	6	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
7	8	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
9	10	0 - 65535	0 - 100	Red	0 - 100%
11	12	0 - 65535	0 - 100	Green	0 - 100%
13	14	0 - 65535	0 - 100	Blue	0 - 100%
15		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 16: CCT 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	CCT	2000 K - 10000 K
5	6	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
7		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 17: CCT & HSI 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	CCT	2000 K - 10000 K
5	6	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
7	8	0 - 65535	0 - 100	CCT ↔ HSI	Crossfade to Color
9	10	0 - 65535	0 - 100	Hue	1 - 360°
11	12	0 - 65535	0 - 100	Saturation	0 - 100%
13	14	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
15		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 18: RGB 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	Red	0 - 100%
5	6	0 - 65535	0 - 100	Green	0 - 100%
7	8	0 - 65535	0 - 100	Blue	0 - 100%
9		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 19: HSI 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	Hue	1 - 360°
5	6	0 - 65535	0 - 100	Saturation	0 - 100%
7	8	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
9		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 20: GEL 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 255	0 - 100	Intensity	0 - 100%
3		0 - 126 127 - 255	0 - 50 51 - 100	CCT	3200K 5600K
4		0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco / Lee	Rosco Lee Reserved
5		0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	Series	R - Col.corr. / L - Col.corr. R - CalColor / L - Col.Filters R - Storaro / L - 600 Series R - Cinelux / L - Cosmetic R - Reserved / L - 700 Series Reserved
6		0 - 255	0 - 100	Category	See GEL Category Tables Mode 6: Gel
7		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 21: XY 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	X Coordinate	0 - 0.8
5	6	0 - 65535	0 - 100	Y Coordinate	0 - 0.8
7		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Mode 22: Source 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3		0 - 2 3 - 5 6 - 8 9 - 11 12 - 14 15 - 17 18 - 20 21 - 23 24 - 26 27 - 29 30 - 32 33 - 35 36 - 38 39 - 41 42 - 44 45 - 47 48 - 50 51 - 53	0 - 1 2 - 3 4 - 5 6 - 7 8 - 9 10 - 11 12 - 13 14 - 15 16 - 17 18 - 19 20 - 21 22 - 23 24 - 25 26 - 27 28 - 29 30 - 31 32 - 33 34 - 35	Source	Tungsten Bulb Incandescent Halogen Antique Bulb Warm Antique Bulb Christmas Lights Night Light Infrared Heat Lamp Grow Light CFL Soft White CFL Bright White CFL Cool White CFL Daylight Cool White 1 Cool White 2 Cool White 3 Warm White CFL blacklight

Mode 19: Source 16-bit, continued

Channel	Value	Percent	Function	
3	93 - 95	62 - 63	Source	Mobile Phone
	96 - 98	64 - 65		Computer Monitor
	99 - 101	66 - 67		Electroluminescence
	102 - 104	68 - 69		Blow Torch
	105 - 107	70 - 71		Road Flare
	108 - 110	72 - 73		Amber Caution
	111 - 113	74 - 75		Green Traffic Light
	114 - 116	76 - 77		Yellow Traffic Light
	117 - 119	78 - 79		Red Traffic Light
	120 - 122	80 - 81		Blue Glow Stick
	123 - 125	82 - 83		Green Glow Stick
	126 - 128	84 - 85		Red Glow Stick
	129 - 131	86 - 87		Yellow Glow Stick
	132 - 135	88 - 89		Pink Glow Stick
	136 - 138	90 - 91		Violet Glow Stick
	139 - 255	92 - 100		Reserved
4	0 - 127	0 - 49	X Coordinate	0.0000 - +0.0050
	128 - 255	50 - 100		0.0000 - - 0.0050
5	0 - 127	0 - 49	Y Coordinate	0.0000 - +0.0050
	128 - 255	50 - 100		0.0000 - - 0.0050
6	0 - 19	0 - 7	Strobe	No Effect
	20 - 255	8 - 100		1 Hz - 25 Hz

Mode 23: FX 16-bit - List of Effects

Channel		Value	Percent	Function	
HI	LO				
1 - 2		0 - 65535	0 - 100	Intensity	0 - 100%
3		0 - 9	0 - 4	FX Selection	Club Lights
		10 - 19	5 - 8		Paparazzi
		20 - 29	9 - 12		Lightning
		30 - 39	13 - 16		TV
		40 - 49	17 - 20		Candle
		50 - 59	21 - 24		Fire
		60 - 69	25 - 28		Strobe
		70 - 79	29 - 32		Explosion
		80 - 89	33 - 36		Faulty Bulb
		90 - 99	37 - 40		Pulsing
		100 - 109	41 - 44		Welding
		110 - 119	45 - 48		Cop Car
		120 - 129	49 - 52		Color Chase
		130 - 139	53 - 56		Party Lights
		140 - 149	57 - 60		Fireworks
		150 - 159	61 - 64		Color Fade
		160 - 169	65 - 68		Color Cycle
170 - 179	69 - 72	Color Gradient			
180 - 189	73 - 76	One Color Chase			
190 - 255	77 - 100	Reserved			
4 - 35		See FX Parameter Tables in Following Pages			

FX Parameter: Club Lights

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	No. of Colors	3
	10 - 19	5 - 8		6
	20 - 29	9 - 12		9
	30 - 39	13 - 16		12
	40 - 49	17 - 20		15
	50 - 59	21 - 24		18
	60 - 69	25 - 28		24
	70 - 79	29 - 32		36
	80 - 255	33 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Paparazzi

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	CCT	2000 K - 10000 K
6	7	0 - 4587 4588 - 9830 9831 - 30145 30146 - 39976 39977 - 60292 60293 - 65535	0 - 7 8 - 15 16 - 46 47 - 61 62 - 92 93 - 100	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
8		0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	Frequency	1 2 3 4 5 6 7 8 9 10 Reserved
9		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Lightning

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	CCT	2000 K - 10000 K
6	7	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
		60293 - 65535	93 - 100		Full Plus Green
8		0 - 9	0 - 4	Frequency	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 109	41 - 44		Random
		110 - 255	45 - 100		Reserved
9		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 109	41 - 44		Random
		110 - 255	45 - 100		Reserved
10		0 - 10	0 - 5	Stop / Trigger / Loop	Stop
		11 - 127	6 - 50		Trigger
		128 - 255	51 - 100		Loop

FX Parameter: TV

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Candle

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	4 - 8		Natural
	20 - 29	8 - 12		Cooler
	30 - 255	12 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Fire

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	4 - 8		Natural
	20 - 29	8 - 12		Cooler
	30 - 255	12 - 100		Reserved
5	0 - 9	0 - 4	Speed	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Strobe

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Mode Select	CCT
		10 - 19	5 - 8		HSI
		20 - 29	9 - 12		Gel
		30 - 39	13 - 16		X.Y
		40 - 49	17 - 20		Source
		50 - 59	21 - 24		RGB
		60 - 255	25 - 100		Reserved
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
		60293 - 65535	93 - 100		Full Plus Green
9		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 109	41 - 44		Random
		110 - 255	45 - 100		Reserved
10		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: Strobe, continued

Channel		Value	Percent	Function	
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9		0 - 255	0 - 100	Speed	1 - 10 - Random
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL					
5		0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
6		0 - 255	0 - 100	Rosco / LEE	
7		0 - 255	0 - 100	Series	
8		0 - 255	0 - 100	Category	
9		0 - 255	0 - 100	Speed	1 - 10 - Random
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY					
5	6	0 - 65535	0 - 100	X coordinate	0 - 0.8
7	8	0 - 65535	0 - 100	Y coordinate	0 - 0.8
9		0 - 255	0 - 100	Speed	1 - 10 - Random
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
Source					
5		0 - 255	0 - 100	Source	See Table in Mode 19: Source
6		0 - 255	0 - 100	Speed	1 - 10 - Random
7		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Strobe, continued

Channel	Value	Percent	Function	
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Speed	1 - 10 - Random
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Explosion

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Mode Select	CCT
		10 - 19	5 - 8		HSI
		20 - 29	9 - 12		Gel
		30 - 39	13 - 16		X.Y
		40 - 49	17 - 20		Source
		50 - 59	21 - 24		RGB
		60 - 255	25 - 100		Reserved
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
		60293 - 65535	93 - 100		Full Plus Green
9		0 - 9	0 - 4	Decay	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
10		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: Explosion, continued

Channel		Value	Percent	Function	
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9		0 - 255	0 - 100	Decay	1 - 10
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL					
5		0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
6		0 - 255	0 - 100	Rosco / LEE	
7		0 - 255	0 - 100	Series	
8		0 - 255	0 - 100	Category	
9		0 - 255	0 - 100	Decay	1 - 10
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY					
5	6	0 - 65535	0 - 100	X coordinate	0 - 0.8
7	8	0 - 65535	0 - 100	Y coordinate	0 - 0.8
9		0 - 255	0 - 100	Decay	1 - 10
10		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
Source					
5		0 - 255	0 - 100	Source	See Table in Mode 19: Source
6		0 - 255	0 - 100	Decay	1 - 10
7		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Explosion, continued

Channel	Value	Percent	Function	
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Decay	1 - 10
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Trigger	Stop Trigger Reserved

FX Parameter: Faulty Bulb

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Mode Select	CCT
		10 - 19	5 - 8		HSI
		20 - 29	9 - 12		Gel
		30 - 39	13 - 16		X.Y
		40 - 49	17 - 20		Source
		50 - 59	21 - 24		RGB
		60 - 255	25 - 100		Reserved
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
60293 - 65535	93 - 100	Full Plus Green			
9		0 - 9	0 - 4	Frequency	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 109	41 - 44		Random
		110 - 255	45 - 100		Reserved

FX Parameter: Faulty Bulb, continued

Channel		Value	Percent	Function	
CCT					
10		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
11		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9		0 - 255	0 - 100	Frequency	1 - 10 - Random
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

Parameter: Faulty Bulb, continued

Channel		Value	Percent	Function	
GEL					
5		0 - 255	0 - 100	CCT	See Table in Mode 6: GEL
6		0 - 255	0 - 100	Rosco / LEE	
7		0 - 255	0 - 100	Series	
8		0 - 255	0 - 100	Category	
9		0 - 255	0 - 100	Frequency	1 - 10 - Random
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY					
5	6	0 - 65535	0 - 100	X coordinate	0 - 0.8
7	8	0 - 65535	0 - 100	Y coordinate	0 - 0.8
9		0 - 255	0 - 100	Frequency	1 - 10 - Random
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
Source					
5		0 - 255	0 - 100	Source	See Table in Mode 19: Source
6		0 - 255	0 - 100	Frequency	1 - 10 - Random
7		0 - 255	0 - 100	Speed	1 - 10
8		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

Parameter: Faulty Bulb, continued

Channel	Value	Percent	Function	
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Pulsing

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Mode Select	CCT
		10 - 19	5 - 8		HSI
		20 - 29	9 - 12		Gel
		30 - 39	13 - 16		X.Y
		40 - 49	17 - 20		Source
		50 - 59	21 - 24		RGB
		60 - 255	25 - 100		Reserved
	CCT				
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
		60293 - 65535	93 - 100		Full Plus Green
9		0 - 9	0 - 4	Frequency	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
10		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved

FX Parameter: Pulsing, continued

Channel		Value	Percent	Function	
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9		0 - 255	0 - 100	Frequency	1 - 10
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL					
5	0 - 255		0 - 100	CCT	See Table in Mode 6: GEL
6	0 - 255		0 - 100	Rosco / LEE	
7	0 - 255		0 - 100	Series	
8	0 - 255		0 - 100	Category	
9		0 - 255	0 - 100	Frequency	1 - 10
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY					
5	6	0 - 65535	0 - 100	X coordinate	0 - 0.8
7	8	0 - 65535	0 - 100	Y coordinate	0 - 0.8
9		0 - 255	0 - 100	Frequency	1 - 10
10		0 - 255	0 - 100	Speed	1 - 10
11		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Pulsing, continued

Channel	Value	Percent	Function	
Source				
5	0 - 255	0 - 100	Source	See Table in Mode 19: Source
6	0 - 255	0 - 100	Frequency	1 - 10
7	0 - 255	0 - 100	Speed	1 - 10
8	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
RGB				
4	0 - 255	0 - 100	Red	0 - 100 %
5	0 - 255	0 - 100	Green	0 - 100 %
6	0 - 255	0 - 100	Blue	0 - 100 %
7	0 - 255	0 - 100	Frequency	1 - 10
8	0 - 255	0 - 100	Speed	1 - 10
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Welding

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Mode Select	CCT
		10 - 19	5 - 8		HSI
		20 - 29	9 - 12		Gel
		30 - 39	13 - 16		X.Y
		40 - 49	17 - 20		Source
		50 - 59	21 - 24		RGB
		60 - 255	25 - 100		Reserved
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect
		4588 - 9830	8 - 15		Full Minus Green
		9831 - 30145	16 - 46		- 99% - - 1%
		30146 - 39976	47 - 61		Neutral / No Effect
		39977 - 60292	62 - 92		1% - 99%
60293 - 65535	93 - 100	Full Plus Green			
9		0 - 9	0 - 4	Frequency	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
	100 - 255	41 - 100	Reserved		
10	11	0 - 65535	0 - 100	Min Brightness	0 - 75%
12		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: Welding, continued

Channel		Value	Percent	Function	
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9		0 - 255	0 - 100	Frequency	1 - 10
10	11	0 - 65535	0 - 100	Min Brightness	0 - 75%
12		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
GEL					
5	0 - 255		0 - 100	CCT	See Table in Mode 6: GEL
6	0 - 255		0 - 100	Rosco / LEE	
7	0 - 255		0 - 100	Series	
8	0 - 255		0 - 100	Category	
9	0 - 255		0 - 100	Frequency	1 - 10
10	11	0 - 65535	0 - 100	Min Brightness	0 - 75%
12		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY					
5	6	0 - 65535	0 - 100	X coordinate	0 - 0.8
7	8	0 - 65535	0 - 100	Y coordinate	0 - 0.8
9		0 - 255	0 - 100	Frequency	1 - 10
10	11	0 - 65535	0 - 100	Min Brightness	0 - 75%
12		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

Parameter: Welding, continued

Channel		Value	Percent	Function	
Source					
5		0 - 255	0 - 100	Source	See Table in Mode 19: Source
6		0 - 255	0 - 100	Frequency	1 - 10
7	8	0 - 65535	0 - 100	Min Brightness	0 - 75%
9		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
RGB					
4		0 - 255	0 - 100	Red	0 - 100 %
5		0 - 255	0 - 100	Green	0 - 100 %
6		0 - 255	0 - 100	Blue	0 - 100 %
7		0 - 255	0 - 100	Frequency	1 - 10
8		0 - 255	0 - 100	Speed	1 - 10
9		0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

FX Parameter: Cop car

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	Color Combinations	Red
	10 - 19	5 - 8		Blue
	20 - 29	9 - 12		Red + Blue
	30 - 39	13 - 16		Blue + White
	40 - 49	17 - 20		Red + Blue + White
	50 - 255	21 - 100		Reserved
5	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Chase

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	Saturation	0 - 100%
6		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
7		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: Party Lights

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	Saturation	0 - 100%
6		0 - 9	0 - 4	Speed	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
7		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: Fireworks

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	Color Combinations	CCT
	10 - 19	5 - 8		HUE
	20 - 29	9 - 12		CCT+HUE
	30 - 255	13 - 100		Reserved
5	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
6	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Fade

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9	10	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
11		0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
12	13	0 - 65535	0 - 100	CCT	2000 K - 10000K
14	15	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
12	13	0 - 65535	0 - 100	HUE	1° - 360°
14	15	0 - 65535	0 - 100	Saturation	0 - 100%
16	17	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Fade, Continued

Channel		Value	Percent	Function	
18		0 - 9	0 - 4	Light Board C	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
19	20	0 - 65535	0 - 100	CCT	2000 K - 10000K
21	22	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
19	20	0 - 65535	0 - 100	HUE	1° - 360°
21	22	0 - 65535	0 - 100	Saturation	0 - 100%
23	24	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
25		0 - 9	0 - 4	Light Board D	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
26	27	0 - 65535	0 - 100	CCT	2000 K - 10000K
28	29	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
26	27	0 - 65535	0 - 100	HUE	1° - 360°
28	29	0 - 65535	0 - 100	Saturation	0 - 100%
30	31	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Fade, Continued

Channel	Value	Percent	Function	
32	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
33	0 - 66	0 - 24	Direction	Left
	67 - 128	25 - 50		Right
	129 - 255	51 - 100		Reserved
34	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Cycle

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9	10	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
11		0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
12	13	0 - 65535	0 - 100	CCT	2000 K - 10000K
14	15	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
12	13	0 - 65535	0 - 100	HUE	1° - 360°
14	15	0 - 65535	0 - 100	Saturation	0 - 100%
16	17	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Cycle, Continued

Channel		Value	Percent	Function	
18		0 - 9	0 - 4	Light Board C	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
19	20	0 - 65535	0 - 100	CCT	2000 K - 10000K
21	22	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
19	20	0 - 65535	0 - 100	HUE	1° - 360°
21	22	0 - 65535	0 - 100	Saturation	0 - 100%
23	24	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
25		0 - 9	0 - 4	Light Board D	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
26	27	0 - 65535	0 - 100	CCT	2000 K - 10000K
28	29	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
26	27	0 - 65535	0 - 100	HUE	1° - 360°
28	29	0 - 65535	0 - 100	Saturation	0 - 100%
30	31	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Cycle, Continued

Channel	Value	Percent	Function	
32	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
33	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

FX Parameter: Color Gradient

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9	10	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
11		0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
12	13	0 - 65535	0 - 100	CCT	2000 K - 10000K
14	15	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
12	13	0 - 65535	0 - 100	HUE	1° - 360°
14	15	0 - 65535	0 - 100	Saturation	0 - 100%
16	17	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Gradient, Continued

Channel		Value	Percent	Function	
18		0 - 9	0 - 4	Light Board C	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
19	20	0 - 65535	0 - 100	CCT	2000 K - 10000K
21	22	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
19	20	0 - 65535	0 - 100	HUE	1° - 360°
21	22	0 - 65535	0 - 100	Saturation	0 - 100%
23	24	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
25		0 - 9	0 - 4	Light Board D	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
26	27	0 - 65535	0 - 100	CCT	2000 K - 10000K
28	29	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
		60293 - 65535	93 - 100		
HSI					
26	27	0 - 65535	0 - 100	HUE	1° - 360°
28	29	0 - 65535	0 - 100	Saturation	0 - 100%
30	31	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: Color Gradient, Continued

Channel		Value	Percent	Function	
32		0 - 9	0 - 4	Frequency	1
		10 - 19	5 - 8		2
		20 - 29	9 - 12		3
		30 - 39	13 - 16		4
		40 - 49	17 - 20		5
		50 - 59	21 - 24		6
		60 - 69	25 - 28		7
		70 - 79	29 - 32		8
		80 - 89	33 - 36		9
		90 - 99	37 - 40		10
		100 - 255	41 - 100		Reserved
33	34	0 - 65535	0 - 100	Min Brightness	0 - 75%
35		0 - 10	0 - 5	Stop / Loop	Stop
		11 - 127	6 - 50		Loop
		128 - 255	51 - 100		Reserved

FX Parameter: One Color Chase

Channel		Value	Percent	Function	
HI	LO				
4		0 - 9	0 - 4	Light Board A	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
5	6	0 - 65535	0 - 100	CCT	2000 K - 10000K
7	8	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
5	6	0 - 65535	0 - 100	HUE	1° - 360°
7	8	0 - 65535	0 - 100	Saturation	0 - 100%
9	10	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K
11		0 - 9	0 - 4	Light Board B	CCT HSI Black Reserved
		10 - 19	5 - 8		
		20 - 29	9 - 12		
		30 - 255	13 - 100		
CCT					
12	13	0 - 65535	0 - 100	CCT	2000 K - 10000K
14	15	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
HSI					
12	13	0 - 65535	0 - 100	HUE	1° - 360°
14	15	0 - 65535	0 - 100	Saturation	0 - 100%
16	17	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000K

FX Parameter: One Color Chase, continued

Channel	Value	Percent	Function	
18	0 - 9	0 - 4	Frequency	1
	10 - 19	5 - 8		2
	20 - 29	9 - 12		3
	30 - 39	13 - 16		4
	40 - 49	17 - 20		5
	50 - 59	21 - 24		6
	60 - 69	25 - 28		7
	70 - 79	29 - 32		8
	80 - 89	33 - 36		9
	90 - 99	37 - 40		10
	100 - 255	41 - 100		Reserved
19	0 - 66	0 - 24	Direction	Left
	67 - 128	25 - 50		Right
	129 - 255	51 - 100		Reserved
20	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

Mode 24: WWRGB 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Warm White	0 - 100%
3	4	0 - 65535	0 - 100	Cool White	0 - 100%
5	6	0 - 65535	0 - 100	Red	0 - 100%
7	8	0 - 65535	0 - 100	Green	0 - 100%
9	10	0 - 65535	0 - 100	Blue	0 - 100%

Mode 25: Light Engine CCT & RGB 16-bit

Channel		Value	Percent	Function	
HI	LO				
Light Engine 1					
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	CCT	2000 K - 10000 K
5	6	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
7	8	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
9	10	0 - 65535	0 - 100	Red	0 - 100%
11	12	0 - 65535	0 - 100	Green	0 - 100%
13	14	0 - 65535	0 - 100	Blue	0 - 100%
Light Engine 2					
15	16	0 - 65535	0 - 100	Intensity	0 - 100%
17	18	0 - 65535	0 - 100	CCT	2000 K - 10000 K
19	20	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
21	22	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
23	24	0 - 65535	0 - 100	Red	0 - 100%
25	26	0 - 65535	0 - 100	Green	0 - 100%
27	28	0 - 65535	0 - 100	Blue	0 - 100%

Mode 25: Light Engine CCT & RGB 16-bit, Continued

Channel		Value	Percent	Function	
HI	LO				
Light Engine 3					
29	30	0 - 65535	0 - 100	Intensity	0 - 100%
31	32	0 - 65535	0 - 100	CCT	2000 K - 10000 K
33	34	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
35	36	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
37	38	0 - 65535	0 - 100	Red	0 - 100%
39	40	0 - 65535	0 - 100	Green	0 - 100%
41	42	0 - 65535	0 - 100	Blue	0 - 100%
Light Engine 4					
43	44	0 - 65535	0 - 100	Intensity	0 - 100%
45	46	0 - 65535	0 - 100	CCT	2000 K - 10000 K
47	48	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
49	50	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
51	52	0 - 65535	0 - 100	Red	0 - 100%
53	54	0 - 65535	0 - 100	Green	0 - 100%
55	56	0 - 65535	0 - 100	Blue	0 - 100%

Mode 26: Light Engine HSI 16-bit

Channel		Value	Percent	Function	
HI	LO				
Light Engine 1					
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	Hue	1° - 360°
5	6	0 - 65535	0 - 100	Saturation	0 - 100%
7	8	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 2					
9	10	0 - 65535	0 - 100	Intensity	0 - 100%
11	12	0 - 65535	0 - 100	Hue	1° - 360°
13	14	0 - 65535	0 - 100	Saturation	0 - 100%
15	16	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 3					
17	18	0 - 65535	0 - 100	Intensity	0 - 100%
19	20	0 - 65535	0 - 100	Hue	1° - 360°
21	22	0 - 65535	0 - 100	Saturation	0 - 100%
23	24	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
Light Engine 4					
25	26	0 - 65535	0 - 100	Intensity	0 - 100%
27	28	0 - 65535	0 - 100	Hue	1° - 360°
29	30	0 - 65535	0 - 100	Saturation	0 - 100%
31	32	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K

Mode 27: Light Engine XY 16-bit

Channel		Value	Percent	Function	
HI	LO				
Light Engine 1					
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3	4	0 - 65535	0 - 100	X Coordinate	0 - 0.8
5	6	0 - 65535	0 - 100	Y Coordinate	0 - 0.8
Light Engine 2					
7	8	0 - 65535	0 - 100	Intensity	0 - 100%
9	10	0 - 65535	0 - 100	X Coordinate	0 - 0.8
11	12	0 - 65535	0 - 100	Y Coordinate	0 - 0.8
Light Engine 3					
13	14	0 - 65535	0 - 100	Intensity	0 - 100%
15	16	0 - 65535	0 - 100	X Coordinate	0 - 0.8
17	18	0 - 65535	0 - 100	Y Coordinate	0 - 0.8
Light Engine 4					
19	20	0 - 65535	0 - 100	Intensity	0 - 100%
21	22	0 - 65535	0 - 100	X Coordinate	0 - 0.8
23	24	0 - 65535	0 - 100	Y Coordinate	0 - 0.8

Mode 28: Ultimate Mode 16-bit

Channel		Value	Percent	Function	
HI	LO				
1	2	0 - 65535	0 - 100	Intensity	0 - 100%
3		0 - 9	0 - 4	Lighting Mode Selection	CCT & RGB
		10 - 19	5 - 8		CCT
		20 - 29	9 - 12		CCT & HSI
		30 - 39	13 - 16		RGB
		40 - 49	17 - 20		HSI
		50 - 59	21 - 24		Gel
		60 - 69	25 - 28		XY
		70 - 79	29 - 32		Source
		80 - 79	33 - 36		FX
		90 - 255	37 - 100		Reserved
4 - 36		See Lighting Mode Parameter Tables in Following Pages			

Lighting Mode Parameter: CCT & RGB

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	CCT	2000 K - 10000 K
6	7	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
8	9	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color
10	11	0 - 65535	0 - 100	Red	0 - 100%
12	13	0 - 65535	0 - 100	Green	0 - 100%
14	15	0 - 65535	0 - 100	Blue	0 - 100%
16		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: CCT

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	CCT	2000 K - 10000 K
6	7	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
8		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: CCT & HSI

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	CCT	2000 K - 10000 K
6	7	0 - 4587	0 - 7	G / M	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green
		4588 - 9830	8 - 15		
		9831 - 30145	16 - 46		
		30146 - 39976	47 - 61		
		39977 - 60292	62 - 92		
60293 - 65535	93 - 100				
8	9	0 - 65535	0 - 100	CCT ↔ HSI	Crossfade to Color
10	11	0 - 65535	0 - 100	Hue	1 - 360°
12	13	0 - 65535	0 - 100	Saturation	0 - 100%
14	15	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
16		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: RGB

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	Red	0 - 100%
6	7	0 - 65535	0 - 100	Green	0 - 100%
8	9	0 - 65535	0 - 100	Blue	0 - 100%
10		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: HSI

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	Hue	1 - 360°
6	7	0 - 65535	0 - 100	Saturation	0 - 100%
8	9	0 - 65535	0 - 100	HSI Base CCT	2000 K - 10000 K
10		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: GEL

Channel		Value	Percent	Function	
3		0 - 126 127 - 255	0 - 50 51 - 100	CCT	3200K 5600K
4		0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco / Lee	Rosco Lee Reserved
5		0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	Series	R - Col.corr. / L - Col.corr. R - CalColor / L - Col.Filters R - Storaro / L - 600 Series R - Cinelux / L - Cosmetic R - Reserved / L - 700 Series Reserved
6		0 - 255	0 - 100	Category	See GEL Category Tables Mode 6: Gel
7		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: XY

Channel		Value	Percent	Function	
HI	LO				
4	5	0 - 65535	0 - 100	X Coordinate	0 - 0.8
6	7	0 - 65535	0 - 100	Y Coordinate	0 - 0.8
8		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: Source

Channel		Value	Percent	Function	
4		0 - 255	0 - 100	Source Matching	See Tables in Mode 19: Source
5		0 - 127 128 - 255	0 - 49 50 - 100	X Coordinate	0.0000 - +0.0050 0.0000 - - 0.0050
6		0 - 127 128 - 255	0 - 49 50 - 100	Y Coordinate	0.0000 - +0.0050 0.0000 - - 0.0050
7		0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz

Lighting Mode Parameter: FX

Channel	Value	Percent	Function	
4	0 - 9	0 - 4	FX Selection	Club Lights
	10 - 19	5 - 8		Paparazzi
	20 - 29	9 - 12		Lightning
	30 - 39	13 - 16		TV
	40 - 49	17 - 20		Candle
	50 - 59	21 - 24		Fire
	60 - 69	25 - 28		Strobe
	70 - 79	29 - 32		Explosion
	80 - 89	33 - 36		Faulty Bulb
	90 - 99	37 - 40		Pulsing
	100 - 109	41 - 44		Welding
	110 - 119	45 - 48		Cop Car
	120 - 129	49 - 52		Color Chase
	130 - 139	53 - 56		Party Lights
	140 - 149	57 - 60		Fireworks
	150 - 159	61 - 64		Color Fade
	160 - 169	65 - 68		Color Cycle
	170 - 179	69 - 72		Color Gradient
	180 - 189	73 - 76		One Color Chase
190 - 255	77 - 100	Reserved		
5 - 36	See FX Parameter Tables in Mode 23: FX 16-bit			