



MC Pro

DMX Profile Specification 2.0

Controller Firmware V2.0

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8-Bit DMX Profiles

Mode 1: CCT & RGB - 8Bit (8ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2000K- 10000K	3200K / 38
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 128
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
		245 - 255	97 - 100	Full Plus Green	
4	CCT ↔ RGB	0 - 255	0 - 100	Crossfade to Color	0 / 0
5	Red	0 - 255	0 - 100	0 - 100%	100 % / 255
6	Green	0 - 255	0 - 100	0 - 100%	100 % / 255
7	Blue	0 - 255	0 - 100	0 - 100%	100 % / 255
8	Strobe	0 - 19	0 - 7	Off	0% / Off
		20 - 255	8 - 100	1 Hz - 25 Hz	

*Do not patch "No Effect" range into consoles

Mode 2: CCT - 8Bit (4ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2000K- 10000K	3200K / 38
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 128
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
		245 - 255	97 - 100	Full Plus Green	
4	Strobe	0 - 19	0 - 7	Off	0% / Off
		20 - 255	8 - 100	1 Hz - 25 Hz	

*Do not patch "No Effect" range into consoles

Mode 3: CCT & HSI - 8Bit (7ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2000K- 10000K	3200K / 38
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 128
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
		245 - 255	97 - 100	Full Plus Green	
4	CCT ↔ HSI	0 - 255	0 - 100	Crossfade to Color	0 / 0
5	Hue	0 - 255	0 - 100	0° - 359°	0° / 0
6	Saturation	0 - 255	0 - 100	0 - 100%	0% / 0
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

* Do not patch "No Effect" range into consoles

Mode 4: RGB - 8Bit (5ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	Red	0 - 255	0 - 100	0 - 100%	100 % / 255
3	Green	0 - 255	0 - 100	0 - 100%	100 % / 255
4	Blue	0 - 255	0 - 100	0 - 100%	100 % / 255
5	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1 Hz - 25 Hz	0% / Off

Mode 5: HSIC - 8Bit (5ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	Hue	0 - 255	0 - 100	0° - 359°	0° / 0
3	Saturation	0 - 255	0 - 100	0 - 100%	0% / 0
4	CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500K 2000K- 10000K	3200K / 48
5	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

Mode 6: Gel Mode - 8Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 126 127 - 255	0 - 50 51 - 100	3200K 5600K	3200K / 0
3	Rosco / Lee	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco Lee Reserved	0
4	Series	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	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	Off / 0
5	Category	0 - 255	0 - 100	See GEL Category Tables in Following Pages	
6	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

GEL Category 1: Rosco - Color Correction

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

GEL Category 2: Rosco - CalColor

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

GEL Category 3: Rosco - Storaro Selection

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

GEL Category 4: Rosco - Cinelux

Channel	Gel Name	DMX Value	GEL Number	
5	Bastard Amber Pale	0 - 1	02	
	Bastard Amber No	2 - 3	302	
	Color Straw Pale	4 - 5	06	
	Gold	6 - 7	08	
	Daffodil	8 - 9	310	
	Straw	10 - 11	12	
	Light Amber	12 - 13	16	
	Gallo Gold	14 - 15	316	
	Light Flame	16 - 17	17	
	Flame	18 - 19	18	
	Mayan Sun	20 - 21	318	
	Golden Amber	22 - 23	21	
	Soft Golden Amber	24 - 25	321	
	Orange	26 - 27	23	
	Henna Sky	28 - 29	325	
	Light Red	30 - 31	26	
	No Color Pink	32 - 33	33	
	Blush Pink	34 - 35	333	
	Flesh Pink Pale	36 - 37	34	
	Rose Pink	38 - 39	37	
		Salmon	40 - 41	41
		Deep Salmon	42 - 43	42
	Middle Rose	44 - 45	44	
	Light Rose Purple	46 - 47	47	
	Surprise Pink	48 - 49	51	
	No Color Blue	50 - 51	60	
	Clearwater	52 - 53	360	
	Booster Blue	54 - 55	62	
	Tipton Blue	56 - 57	362	
	Blue Bell	58 - 59	364	
	Daylight Blue	60 - 61	65	

	Tharon Delft Blue	62 - 63	365
	Cerulean Blue	64 - 65	375
	Bermuda Blue	66 - 67	376
	Green Blue	68 - 69	77
	Alice Blue	70 - 71	378
	Primary Blue	72 - 73	80
	Baldassari Blue	74 - 75	381
	Medium Blue	76 - 77	83
	Pale Yellow Green	78 - 79	87
	Light Green	80 - 81	88
	Moss Green	82 - 83	89
	Primary Green	84 - 85	91
	Turquoise	86 - 87	92
	Blue Green	88 - 89	93
	Chocolate	90 - 91	99
	Reserved	92 - 255	-

GEL Category 1: LEE - Color Correction

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

GEL Category 2: LEE - Color Filters

Channel	Gel Name	DMX Value	GEL Number
5	Rose Pink	0 - 1	002
	Lavender Tint	2 - 3	003
	Medium Bastard Amber	4 - 5	004
	Pale Yellow	6 - 7	007
	Dark Salmon	8 - 9	008
	Pale Amber Gold	10 - 11	009
	Medium Yellow	12 - 13	010
	Straw Tint	14 - 15	013
	Surprise Peach	16 - 17	017
	Fire	18 - 19	019
	Medium Amber	20 - 21	020
	Gold Amber	22 - 23	021
	Dark Amber	24 - 25	022
	Scarlet	26 - 27	024
	Sunset Red	28 - 29	025
	Bright Red	30 - 31	026
	Light Pink	32 - 33	035
	Medium Pink	34 - 35	036
	Dark Magenta	36 - 37	046
	Rose Purple	38 - 39	048
	Light Lavender	40 - 41	052
	Paler Lavender	42 - 43	053
	Lavender	44 - 45	058
	Mist Blue	46 - 47	061
	Pale Blue	48 - 49	063
	Sky Blue	50 - 51	068
	Evening Blue	52 - 53	075
	Just Blue	54 - 55	079
	Deeper Blue	56 - 57	085
	Lime Green	58 - 59	088
	Moss Green	60 - 61	089
	Dark Yellow Green	62 - 63	090
	Spring Yellow	64 - 65	100
	Yellow	66 - 67	101
	Light Amber	68 - 69	102
		Straw	70 - 71
	Deep Amber	72 - 73	104
	Primary Red	74 - 75	106
	Light Rose	76 - 77	107
	English Rose	78 - 79	108
	Light Salmon	80 - 81	109
	Middle Rose	82 - 83	110
	Dark Pink	84 - 85	111
	Magenta	86 - 87	113
	Peacock Blue	88 - 89	115

	Steel Blue	90 - 91	117
	Light Blue	92 - 93	118
	Deep Blue	94 - 95	120
	LEE Green	96 - 97	121
	Fern Green	98 - 99	122
	Dark Green	100 - 101	124
	Smokey Pink	102 - 103	127
	Bright Pink	104 - 105	128
	Marine Blue	106 - 107	131
	Golden Amber	108 - 109	134
	Deep Golden Amber	110 - 111	135
	Pale Lavender	112 - 113	136
	Special Lavender	114 - 115	137
	Pale Green Summer	116 - 117	138
	Blue	118 - 119	140
	Pale Violet	120 - 121	142
	Pale Navy Blue	122 - 123	143
	No Color Blue	124 - 125	144
	Apricot	126 - 127	147
	Bright Rose	128 - 129	148
	Gold Tint	130 - 131	151
	Pale Gold	132 - 133	152
	Pale Salmon	134 - 135	153
	Pale Rose	136 - 137	154
	Chocolate	138 - 139	156
	Pink	140 - 141	157
	No Color Straw	142 - 143	159
	Slate Blue	144 - 145	161
	Bastard Amber	146 - 147	162
	Flame Red	148 - 149	164
	Daylight Blue	150 - 151	165
	Lilac Tint	152 - 153	169
	Deep Lavender	154 - 155	170
	Dark Steel Blue	156 - 157	174
	Loving Amber	158 - 159	176
	Dark Lavender	160 - 161	180
	Light Red	162 - 163	182
	Flesh Pink	164 - 165	192
	Surprise Pink	166 - 167	194
	Zenith Blue	168 - 169	195
	True Blue	170 - 171	196
	Alice Blue	172 - 173	197
	Palace Blue	174 - 175	198
	Regal Blue	176 - 177	199
	Reserved	178 - 255	

GEL Category 3: LEE - 600 Series

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

GEL Category 4: LEE - Cosmetic Filters

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

GEL Category 5: LEE - 700 Series

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

Mode 7: xy - 8Bit (4ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	x Coordinate	0 - 255	0 - 0.8		3200K (0.4234 / 136)
3	y Coordinate	0 - 255	0 - 0.8		3200K (0.3989 / 125)
4	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

Mode 8: Source - 8Bit (5ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	Source	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 54 - 56 57 - 59 60 - 62 63 - 65 66 - 68 69 - 71 72 - 74 75 - 77 78 - 80 81 - 83 84 - 86 87 - 89 90 - 92	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 36 - 37 38 - 39 40 - 41 42 - 43 44 - 45 46 - 47 48 - 49 50 - 51 52 - 53 54 - 55 56 - 57 58 - 59 60 - 61	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 HMI High Pressure Sodium Low Pressure Sodium Mercury Vapor Metal Halide Ceramic Carbon Arc Xenon Candle Gas Fire Sun Direct Sun Overcast Sun Blue Hour	0% / 0

		93 - 95 96 - 98 99 - 101 102 - 104 105 - 107 108 - 110 111 - 113 114 - 116 117 - 119 120 - 122 123 - 125 126 - 128 129 - 131 132 - 135 136 - 138 139 - 255	62 - 63 64 - 65 66 - 67 68 - 69 70 - 71 72 - 73 74 - 75 76 - 77 78 - 79 80 - 81 82 - 83 84 - 85 86 - 87 88 - 89 90 - 91 92 - 100	Mobile Phone Computer Monitor Electroluminescence Blow Torch Road Flare Amber Caution Green Traffic Light Yellow Traffic Light Red Traffic Light Blue Glow Stick Green Glow Stick Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved	
3	x Coordinate	0 - 127 128 - 255	0 - 49 50 - 100	0.0000 - +0.0050 0.0000 - - 0.0050	
4	y Coordinate	0 - 127 128 - 255	0 - 49 50 - 100	0.0000 - +0.0050 0.0000 - - 0.0050	
5	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	

Mode 9: FX - 8Bit (10ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	FX	0 - 9	0 - 4	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	Firework	
		150 - 255	61 - 100	Reserved	
3-10	See FX Parameter Tables in Following Pages				

FX Parameter: Club Lights

Channel	Function	Value	Percent	Description	Default % / DMX
3	No. of Colors	0 - 9	0 - 4	3	3 / 0
		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	Speed	0 - 9	0 - 4	1	1 / 0
		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	Stop / Loop	0 - 10	0 - 5	Stop	0 / 0
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Paparazzi

Channel	Function	Value	Percent	Description	Default % / DMX
3	CCT	0 - 255	0 - 100	2000 K - 10000 K	3200K /
4	±Green	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	No Effect Full Minus Green - 0.9 - - 0.1 Neutral 0.1 - 0.9 Full Plus Green	50% / 128
5	Frequency	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	1 2 3 4 5 6 7 8 9 10 Reserved	1 / 0

FX Parameter: Lighting

Channel	Function	Value	Percent	Description	Default % / DMX
3	Mode Select	0 - 9	0 - 4	CCT	CCT / 0
		10 - 19	5 - 8	HSI	
		20 - 255	9 - 100	Reserved	
CCT					
4	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
5	G / M	0 - 10	0 - 4	Neutral / No Effect	50 % / 128
		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	Frequency	0 - 9	0 - 4	1	1 / 0
		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	Speed	0 - 9	0 - 4	1	1 / 0
		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			
8	Stop / Trigger / Loop	0 - 10	0 - 5	Stop	Stop / 0
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Loop	
HSI					
4	Hue	0 - 255	0 - 100	1° - 360°	

5	Saturation	0 - 255	0 - 100	0 - 100%	
6	HSI Base CCT	0 - 10	0 - 4	6500 K	
		11 - 255	5 - 100	2000 K - 10000 K	
7	Frequency	0 - 9	0 - 4	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	
8	Speed	0 - 9	0 - 4	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	Stop / Trigger / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Loop	

FX Parameter: TV

Channel	Function	Value	Percent	Description	Default % / DMX			
3	0 - 9	0 - 4	Mode Select	CCT	CCT / 0			
	10 - 19	5 - 8		HSI				
	20 - 255	9 - 100		Reserved				
	CCT							
4	CCT Lower limit	0 - 255	0 - 100	2000 K - 10000 K				
5	CCT Upper limit	0 - 255	0 - 100	2000 K - 10000 K				
6	G / M	0 - 10	0 - 4	No Effect				
		11 - 20	5 - 8	Full Minus Green				
		21 - 119	9 - 47	-99% - -1%				
		120 - 145	48 - 57	Neutral				
		146 - 244	58 - 96	1% - 99%				
		245 - 255	97 - 100	Full Plus Green				
7	Speed	0 - 9	0 - 4	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				
		8	Stop / Loop	0 - 10		0 - 5	Stop	
				11 - 127		6 - 50	Loop	
128 - 255	51 - 100			Reserved				
HSI								
4	HUE Lower limit	0 - 255	0 - 100	1° - 360°				
5	HUE Upper limit	0 - 255	0 - 100	1° - 360°				
6	Saturation	0 - 255	0 - 100	0 - 100%				
7	HSI Base CCT	0 - 10	0 - 4	6500 K				
		11 - 255	5 - 100	2000 K - 10000 K				

8	Speed	0 - 9	0 - 4	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	Stop / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Candle

Channel	Function	Value	Percent	Description	Default % / DMX
3	CCT Range	0 - 9	0 - 4	Warmer	Warmer / 0
		10 - 19	5 - 8	Natural	
		20 - 29	9 - 12	Cooler	
		30 - 255	13 - 100	Reserved	
4	Speed	0 - 9	0 - 4	1	1 / 0
		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	Stop / Loop	0 - 10	0 - 5	Stop	Stop / 0
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Fire

Channel	Function	Value	Percent	Description	Default % / DMX
3	0 - 9	0 - 4	Mode Select	CCT	CCT / 0
	10 - 19	5 - 8		HSI	
	20 - 255	9 - 100		Reserved	
	CCT				
4	CCT Lower limit	0 - 255	0 - 100	2000 K - 10000 K	
5	CCT Upper limit	0 - 255	0 - 100	2000 K - 10000 K	
6	G / M	0 - 10	0 - 4	No Effect	
		11 - 20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
7	Speed	0 - 9	0 - 4	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	
		8	Stop / Loop	0 - 10	
11 - 127	6 - 50			Loop	
128 - 255	51 - 100			Reserved	
HSI					
4	HUE Lower limit	0 - 255	0 - 100	1° - 360°	
5	HUE Upper limit	0 - 255	0 - 100	1° - 360°	
6	Saturation	0 - 255	0 - 100	0 - 100%	
7	HSI Base CCT	0 - 10	0 - 4	6500 K	
		11 - 255	5 - 100	2000 K - 10000 K	

8	Speed	0 - 9	0 - 4	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	Stop / Loop	0 - 10	
11 - 127	6 - 50			Loop	
128 - 255	51 - 100			Reserved	

FX Parameter: Strobe

Channel	Function	Value	Percent	Description	Default % / DMX
3	0 - 9	0 - 4	Mode Select	CCT	CCT / 0
	10 - 19	5 - 8		HSI	
	20 - 29	9 - 12		Gel	
	30 - 39	13 - 16		xy	
	40 - 49	17 - 20		Source	
	50 - 59	21 - 24		RGB	
	60 - 255	25 - 100		Reserved	
CCT					
4	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
5	G / M	0 - 10	0 - 4	No Effect	
		11 - 20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
6	Speed	0 - 9	0 - 4	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	Stop / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	
HSI					
4	Hue	0 - 255	0 - 100	1° - 360°	
5	Saturation	0 - 255	0 - 100	0 - 100%	
6	Speed	0 - 9	0 - 4	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 - 99 100 - 109 110 - 255	37 - 40 41 - 44 45 - 100	10 Random Reserved	
7	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
8	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
GEL					
4	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
5	Rosco / LEE	0 - 255	0 - 100		
6	Series	0 - 255	0 - 100		
7	Category	0 - 255	0 - 100		
8	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
xy					
4	x coordinate	0 - 255	0 - 100	0 - 0.8	
5	y coordinate	0 - 255	0 - 100	0 - 0.8	
6	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28	1 2 3 4 5 6 7	

		70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	8 9 10 Random Reserved	
7	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
Source					
4	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
5	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
6	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
RGB					
4	Red	0 - 255	0 - 100	0 - 100 %	
5	Green	0 - 255	0 - 100	0 - 100 %	
6	Blue	0 - 255	0 - 100	0 - 100 %	
7	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	

8	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
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FX Parameter: Explosion

Channel	Function	Value	Percent	Description	Default % / DMX
3	0 - 9	0 - 4	Mode Select	CCT	CCT / 0
	10 - 19	5 - 8		HSI	
	20 - 29	9 - 12		Gel	
	30 - 39	13 - 16		xy	
	40 - 49	17 - 20		Source	
	50 - 59	21 - 24		RGB	
	60 - 255	25 - 100		Reserved	
CCT					
4	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
5	G / M	0 - 10	0 - 4	No Effect	
		11 - 20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
6	Decay	0 - 9	0 - 4	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	Stop / Trigger	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Reserved	
HSI					
4	Hue	0 - 255	0 - 100	1° - 360°	
5	Saturation	0 - 255	0 - 100	0 - 100%	
6	HSI Base CCT	0 - 10	0 - 4	6500 K	
		11 - 255	5 - 100	2000 K - 10000 K	
7	Decay	0 - 9	0 - 4	1	
		10 - 19	5 - 8	2	
		20 - 29	9 - 12	3	

		30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	4 5 6 7 8 9 10 Reserved	
8	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
GEL					
4	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
5	Rosco / LEE	0 - 255	0 - 100		
6	Series	0 - 255	0 - 100		
7	Category	0 - 255	0 - 100		
8	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	
9	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
xy					
4	x coordinate	0 - 255	0 - 100	0 - 0.8	
5	y coordinate	0 - 255	0 - 100	0 - 0.8	
6	Decay	0 - 9 10 - 19 20 - 29 30 - 39	0 - 4 5 - 8 9 - 12 13 - 16	1 2 3 4	

		40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	5 6 7 8 9 10 Reserved	
7	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
Source					
4	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
5	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	
6	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
RGB					
4	Red	0 - 255	0 - 100	0 - 100 %	
5	Green	0 - 255	0 - 100	0 - 100 %	
6	Blue	0 - 255	0 - 100	0 - 100 %	
7	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	

8	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
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FX Parameter: Faulty Bulb

Channel	Function	Value	Percent	Description	Default % / DMX
3	0 - 9	0 - 4	Mode Select	CCT	CCT / 0
	10 - 19	5 - 8		HSI	
	20 - 29	9 - 12		Gel	
	30 - 39	13 - 16		xy	
	40 - 49	17 - 20		Source	
	50 - 59	21 - 24		RGB	
	60 - 255	25 - 100		Reserved	
CCT					
4	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
5	G / M	0 - 10	0 - 4	No Effect	
		11 - 20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
6	Frequency	0 - 9	0 - 4	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	Speed	0 - 9	0 - 4	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	
8	Stop / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	
HSI					
4	Hue	0 - 255	0 - 100	1° - 360°	

5	Saturation	0 - 255	0 - 100	0 - 100%	
6	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
7	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
8	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
GEL					
4	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
5	Rosco / LEE	0 - 255	0 - 100		
6	Series	0 - 255	0 - 100		
7	Category	0 - 255	0 - 100		
8	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24	1 2 3 4 5 6	

		60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	7 8 9 10 Random Reserved	
9	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
10	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
xy					
4	x coordinate	0 - 255	0 - 100	0 - 0.8	
5	y coordinate	0 - 255	0 - 100	0 - 0.8	
6	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
7	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40	1 2 3 4 5 6 7 8 9 10	

		100 - 255	41 - 100	Reserved	
8	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
Source					
4	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
5	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
6	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
7	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
RGB					
4	Red	0 - 255	0 - 100	0 - 100 %	
5	Green	0 - 255	0 - 100	0 - 100 %	
6	Blue	0 - 255	0 - 100	0 - 100 %	
7	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20	1 2 3 4 5	

		50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	6 7 8 9 10 Random Reserved	
8	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	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
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	

Channel	Value	Percent	Function	
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 - 10 11 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K
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
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 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved

Channel	Value	Percent	Function	
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 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	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
8	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

Channel	Value	Percent	Function	
HSI				
4	0 - 255	0 - 100	HUE	1° - 360°
5	0 - 255	0 - 100	Saturation	0 - 100%
6	0 - 10 11 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K
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
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

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

Mode 10: WWRGB - 8Bit (5ch)

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

Mode 11: Ultimate Mode - 8Bit (11ch)

Channel	Value	Percent	Function		Default % / DMX
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 - 11	See Lighting Mode Parameter Tables in Following Pages				

Lighting Mode Parameter: CCT & RGB

Channel	Value	Percent	Function		Default % / DMX
3	0 - 255	0 - 100	CCT	2000 K - 10000 K	
4	0 - 10	0 - 4	±Green	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 ↔ 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	0 - 78 - 100	Strobe	No Effect	
	20 - 255			1 Hz - 25 Hz	
10					
11					

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Lighting Mode Parameter: CCT

Channel	Value	Percent	Function		Default % / DMX
3	0 - 255	0 - 100	CCT	2000 K - 10000 K	
4	0 - 10	0 - 4	±G	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			
5	0 - 19	0 - 7	Strobe	No Effect 1 Hz - 25 Hz	
	20 - 255	8 - 100			
6					
7					
8					
9					
10					
11					

Lighting Mode Parameter: HSIC+

Channel	Value	Percent	Function		Default % / DMX
3	0 - 255	0 - 100	CCT	2000 K - 10000 K	
4	0 - 10	0 - 4	±G	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			
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 - 19	0 - 7	Strobe	No Effect 1 Hz - 25 Hz	
	20 - 255	80 - 100			
9					
10					
11					

Lighting Mode Parameter: RGB

Channel	Value	Percent	Function		Default % / DMX
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	
7					
8					
9					
10					
11					

Lighting Mode Parameter: HSI

Channel	Value	Percent	Function		Default % / DMX
3	0 - 255	0 - 100	Hue	1° - 360°	
4	0 - 255	0 - 100	Saturation	0 - 100%	
5	0 - 10 11 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K	3200K/ 48
6	0 - 19 20 - 255	0 - 7 80 - 100	Strobe	No Effect 1 Hz - 25 Hz	
7					
8					
9					
10					
11					

Lighting Mode Parameter: GEL

Channel	Value	Percent	Function		Default % / DMX
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 Reser ved	
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	
8					
9					
10					
11					

Lighting Mode Parameter: xy

Channel	Value	Percent	Function		Default % / DMX
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	
6					
7					
8					
9					
10					
11					

Lighting Mode Parameter: Source

Channel	Value	Percent	Function		Default % / DMX
3	0 - 255	0 - 100	Source Matching	See Tables in Mode 8: Source	
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	
7					
8					
9					
10					
11					

Lighting Mode Parameter: FX

Channel	Value	Percent	Function		Default % / DMX
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 Cop	
	110 - 119	45 - 48		Car Color	
	120 - 129	49 - 52		Chase Party	
	130 - 139	53 - 56		Lights	
	140 - 149	57 - 60		Firework	
150 - 255	61 - 100	Reserved			
4 - 11	See FX Parameter Tables in Mode 9: FX 8-bit				

Mode 12: HSIC+ - 8Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2000K- 10000K	3200K / 39
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 128
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
4	Hue	0 - 255	0 - 100	0° - 359°	0° / 0
5	Saturation	0 - 255	0 - 100	0 - 100%	0% / 0
6	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	

* Do not patch "No Effect" range into consoles

16-Bit DMX Profiles

Mode 13: CCT & RGB - 16Bit (15ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	CCT	0 - 65535	0 - 100	2000K- 10000K	3200K / 9831
5/6	±Green	0 - 65535 0 - 4587 4588 - 9830 9831 - 30145 30146 - 39976 39977 - 60292 60293 - 65535	0 - 100 0 - 7 8 - 15 16 - 46 47 - 61 62 - 92 93 - 100	Minus Green to Plus Green No Effect* Full Minus Green -99% - -1% 0% Neutral 1% - 99% Full Plus Green	Neutral / 32441
7/8	CCT ↔ RGB	0 - 65535	0 - 100	Crossfade to Color	0 % / 0
9/10	Red	0 - 65535	0 - 100	0 - 100%	100 % / 65535
11/12	Green	0 - 65535	0 - 100	0 - 100%	100 % / 65535
13/14	Blue	0 - 65535	0 - 100	0 - 100%	100 % / 65535
15	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1 Hz - 25 Hz	0% / Off

*Do not patch "No Effect" range into consoles

Mode 14: CCT - 16Bit (7ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	CCT	0 - 65535	0 - 100	2000K- 10000K	3200K / 9831
5/6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 32441
		0 - 4587	0 - 7	No Effect*	
		4588 - 9830	8 - 15	Full Minus Green	
		9831 - 30145	16 - 46	-99% - -1%	
		30146 - 39976	47 - 61	0% Neutral	
		39977 - 60292	62 - 92	1% - 99%	
		60293 - 65535	93 - 100	Full Plus Green	
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1 Hz - 25 Hz	0% / Off

*Do not patch "No Effect" range into consoles

Mode 15: CCT & HSI - 16Bit (13ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	CCT	0 - 65535	0 - 100	2000K- 10000K	3200K / 9831
5/6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 32441
		0 - 4587	0 - 7	No Effect*	
		4588 - 9830	8 - 15	Full Minus Green	
		9831 - 30145	16 - 46	-99% - -1%	
		30146 - 39976	47 - 61	0% Neutral	
		39977 - 60292	62 - 92	1% - 99%	
		60293 - 65535	93 - 100	Full Plus Green	
7/8	CCT ↔ HSI	0 - 65535	0 - 100	Crossfade to Color	0 / 0
9/10	Hue	0 - 65535	0 - 100	0° - 359°	0° / 0
11/12	Saturation	0 - 65535	0 - 100	0 - 100%	0% / 0
13	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

* Do not patch "No Effect" range into consoles

Mode 16: RGB -16Bit (9ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	Red	0 - 65535	0 - 100	0 - 100%	100 % / 65535
5/6	Green	0 - 65535	0 - 100	0 - 100%	100 % / 65535
7/8	Blue	0 - 65535	0 - 100	0 - 100%	100 % / 65535
9	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1 Hz - 25 Hz	0% / Off

Mode 17: HSIC - 16Bit (9ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	Hue	0 - 65535	0 - 100	0° - 359°	0° / 0
5/6	Saturation	0 - 65535	0 - 100	0 - 100%	0% / 0
7/8	CCT	0 - 2621 2622-65535	0 - 4 5-100	6500K 2000K- 10000K	3200K / 12059
9	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

Mode 18: GEL-16Bit (8ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3	CCT	0 - 126 127 - 255	0 - 50 51 - 100	3200K 5600K	3200K / 0
4	Rosco / Lee	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco Lee Reserved	0
5	Series	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 100	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	Off / 0
6	Category	0 - 255	0 - 100	See GEL Category Tables in Following Pages	
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

GEL Category 1: Rosco - Color Correction

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

GEL Category 2: Rosco - CalColor

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

GEL Category 3: Rosco - Storaro Selection

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

GEL Category 4: Rosco - Cinelux

Channel	Gel Name	DMX Value	GEL Number	
6	Bastard Amber Pale	0 - 1	02	
	Bastard Amber No	2 - 3	302	
	Color Straw Pale	4 - 5	06	
	Gold	6 - 7	08	
	Daffodil	8 - 9	310	
	Straw	10 - 11	12	
	Light Amber	12 - 13	16	
	Gallo Gold	14 - 15	316	
	Light Flame	16 - 17	17	
	Flame	18 - 19	18	
	Mayan Sun	20 - 21	318	
	Golden Amber	22 - 23	21	
	Soft Golden Amber	24 - 25	321	
	Orange	26 - 27	23	
	Henna Sky	28 - 29	325	
	Light Red	30 - 31	26	
	No Color Pink	32 - 33	33	
	Blush Pink	34 - 35	333	
	Flesh Pink Pale	36 - 37	34	
	Rose Pink	38 - 39	37	
		Salmon	40 - 41	41
		Deep Salmon	42 - 43	42
	Middle Rose	44 - 45	44	
	Light Rose Purple	46 - 47	47	
	Surprise Pink	48 - 49	51	
	No Color Blue	50 - 51	60	
	Clearwater	52 - 53	360	
	Booster Blue	54 - 55	62	
	Tipton Blue	56 - 57	362	
	Blue Bell	58 - 59	364	
	Daylight Blue	60 - 61	65	
	Tharon Delft Blue	62 - 63	365	

	Cerulean Blue	64 - 65	375
	Bermuda Blue	66 - 67	376
	Green Blue	68 - 69	77
	Alice Blue	70 - 71	378
	Primary Blue	72 - 73	80
	Baldassari Blue	74 - 75	381
	Medium Blue	76 - 77	83
	Pale Yellow Green	78 - 79	87
	Light Green	80 - 81	88
	Moss Green	82 - 83	89
	Primary Green	84 - 85	91
	Turquoise	86 - 87	92
	Blue Green	88 - 89	93
	Chocolate	90 - 91	99
	Reserved	92 - 255	-

GEL Category 1: LEE - Color Correction

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

GEL Category 2: LEE - Color Filters

Channel	Gel Name	DMX Value	GEL Number
6	Rose Pink	0 - 1	002
	Lavender Tint	2 - 3	003
	Medium Bastard Amber	4 - 5	004
	Pale Yellow	6 - 7	007
	Dark Salmon	8 - 9	008
	Pale Amber Gold	10 - 11	009
	Medium Yellow	12 - 13	010
	Straw Tint	14 - 15	013
	Surprise Peach	16 - 17	017
	Fire	18 - 19	019
	Medium Amber	20 - 21	020
	Gold Amber	22 - 23	021
	Dark Amber	24 - 25	022
	Scarlet	26 - 27	024
	Sunset Red	28 - 29	025
	Bright Red	30 - 31	026
	Light Pink	32 - 33	035
	Medium Pink	34 - 35	036
	Dark Magenta	36 - 37	046
	Rose Purple	38 - 39	048
	Light Lavender	40 - 41	052
	Paler Lavender	42 - 43	053
	Lavender	44 - 45	058
	Mist Blue	46 - 47	061
	Pale Blue	48 - 49	063
	Sky Blue	50 - 51	068
	Evening Blue	52 - 53	075
	Just Blue	54 - 55	079
	Deeper Blue	56 - 57	085
	Lime Green	58 - 59	088
	Moss Green	60 - 61	089
	Dark Yellow Green	62 - 63	090
	Spring Yellow	64 - 65	100
	Yellow	66 - 67	101
	Light Amber	68 - 69	102
		Straw	70 - 71
	Deep Amber	72 - 73	104
	Primary Red	74 - 75	106
	Light Rose	76 - 77	107
	English Rose	78 - 79	108
	Light Salmon	80 - 81	109
	Middle Rose	82 - 83	110
	Dark Pink	84 - 85	111
	Magenta	86 - 87	113
	Peacock Blue	88 - 89	115
	Steel Blue	90 - 91	117

	Light Blue	92 - 93	118
	Deep Blue	94 - 95	120
	LEE Green	96 - 97	121
	Fern Green	98 - 99	122
	Dark Green	100 - 101	124
	Smokey Pink	102 - 103	127
	Bright Pink	104 - 105	128
	Marine Blue	106 - 107	131
	Golden Amber	108 - 109	134
	Deep Golden Amber	110 - 111	135
	Pale Lavender	112 - 113	136
	Special Lavender	114 - 115	137
	Pale Green Summer	116 - 117	138
	Blue	118 - 119	140
	Pale Violet	120 - 121	142
	Pale Navy Blue	122 - 123	143
	No Color Blue	124 - 125	144
	Apricot	126 - 127	147
	Bright Rose	128 - 129	148
	Gold Tint	130 - 131	151
	Pale Gold	132 - 133	152
	Pale Salmon	134 - 135	153
	Pale Rose	136 - 137	154
	Chocolate	138 - 139	156
	Pink	140 - 141	157
	No Color Straw	142 - 143	159
	Slate Blue	144 - 145	161
	Bastard Amber	146 - 147	162
	Flame Red	148 - 149	164
	Daylight Blue	150 - 151	165
	Lilac Tint	152 - 153	169
	Deep Lavender	154 - 155	170
	Dark Steel Blue	156 - 157	174
	Loving Amber	158 - 159	176
	Dark Lavender	160 - 161	180
	Light Red	162 - 163	182
	Flesh Pink	164 - 165	192
	Surprise Pink	166 - 167	194
	Zenith Blue	168 - 169	195
	True Blue	170 - 171	196
	Alice Blue	172 - 173	197
	Palace Blue	174 - 175	198
	Regal Blue	176 - 177	199
	Reserved	178 - 255	

GEL Category 3: LEE - 600 Series

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

GEL Category 4: LEE - Cosmetic Filters

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

GEL Category 5: LEE - 700 Series

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

Mode 19: xy -16Bit (7ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	x Coordinate	0 - 65535	0 - 0.8	0 - 0.8	3200K (0.4234 / 34684)
5/6	y Coordinate	0 - 65535	0 - 0.8	0 - 0.8	3200K (0.3989 / 32686)
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0

Mode 20: Source -16Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3	Source	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 54 - 56 57 - 59 60 - 62 63 - 65 66 - 68 69 - 71 72 - 74 75 - 77 78 - 80 81 - 83 84 - 86 87 - 89	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 36 - 37 38 - 39 40 - 41 42 - 43 44 - 45 46 - 47 48 - 49 50 - 51 52 - 53 54 - 55 56 - 57 58 - 59	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 HMI High Pressure Sodium Low Pressure Sodium Mercury Vapor Metal Halide Ceramic Carbon Arc Xenon Candle Gas Fire Sun Direct Sun Overcast	0% / 0

		90 - 92 93 - 95 96 - 98 99 - 101 102 - 104 105 - 107 108 - 110 111 - 113 114 - 116 117 - 119 120 - 122 123 - 125 126 - 128 129 - 131 132 - 135 136 - 138 139 - 255	60 - 61 62 - 63 64 - 65 66 - 67 68 - 69 70 - 71 72 - 73 74 - 75 76 - 77 78 - 79 80 - 81 82 - 83 84 - 85 86 - 87 88 - 89 90 - 91 92 - 100	Sun Blue Hour Mobile Phone Computer Monitor Electroluminescence Blow Torch Road Flare Amber Caution Green Traffic Light Yellow Traffic Light Red Traffic Light Blue Glow Stick Green Glow Stick Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved	
4	x Coordinate	0 - 127 128 - 255	0 - 49 50 - 100	0.0000 - +0.0050 0.0000 - - 0.0050	
5	y Coordinate	0 - 127 128 - 255	0 - 49 50 - 100	0.0000 - +0.0050 0.0000 - - 0.0050	
6	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	

Mode 21: FX - 16Bit (11ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3	FX	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 48 49 - 52 53 - 56 57 - 60 61 - 100	Club Lights Paparazzi Lightning TV Candle Fire Strobe Explosion Faulty Bulb Pulsing Welding Cop Car Color Chase Party Lights Firework Reserved	
4-11	See FX Parameter Tables in Following Pages				

FX Parameter: Club Lights

Channel	Function	Value	Percent	Description	Default % / DMX
4	No. of Colors	0 - 9	0 - 4	3	3 / 0
		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	Speed	0 - 9	0 - 4	1	1 / 0
		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	Stop / Loop	0 - 10	0 - 5	Stop	0 / 0
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Paparazzi

Channel	Function	Value	Percent	Description	Default % / DMX
4	CCT	0 - 255	0 - 100	2000 K - 10000 K	3200K /
5	±Green	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	No Effect Full Minus Green - 0.9 - - 0.1 Neutral 0.1 - 0.9 Full Plus Green	50% / 128
6	Frequency	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	1 2 3 4 5 6 7 8 9 10 Reserved	1 / 0

FX Parameter: Lighting

Channel	Function	Value	Percent	Description	Default % / DMX
7	Mode Select	0 - 9	0 - 4	CCT	CCT / 0
		10 - 19	5 - 8	HSI	
		20 - 255	9 - 100	Reserved	
CCT					
5	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
6	G / M	0 - 10	0 - 4	Neutral / No Effect	50 % / 128
		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			
7	Frequency	0 - 9	0 - 4	1	1 / 0
		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			
8	Speed	0 - 9	0 - 4	1	1 / 0
		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	Stop / Trigger / Loop	0 - 10	0 - 5	Stop	Stop / 0
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Loop	
HSI					
5	Hue	0 - 255	0 - 100	1° - 360°	
6	Saturation	0 - 255	0 - 100	0 - 100%	

7	HSI Base CCT	0 - 10	0 - 4	6500 K	
		11 - 255	5 - 100	2000 K - 10000 K	
8	Frequency	0 - 9	0 - 4	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	
9	Speed	0 - 9	0 - 4	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	Stop / Trigger / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Loop	

FX Parameter: TV

Channel	Function	Value	Percent	Description	Default % / DMX
4	0 - 9 10 - 19 20 - 255	0 - 4 5 - 8 9 - 100	Mode Select	CCT HSI Reserved	CCT / 0
CCT					
5	CCT Lower limit	0 - 255	0 - 100	2000 K - 10000 K	
6	CCT Upper limit	0 - 255	0 - 100	2000 K - 10000 K	
7	G / M	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	No Effect Full Minus Green -99% - -1% Neutral 1% - 99% Full Plus Green	
8	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
HSI					
5	HUE Lower limit	0 - 255	0 - 100	1° - 360°	
6	HUE Upper limit	0 - 255	0 - 100	1° - 360°	
7	Saturation	0 - 255	0 - 100	0 - 100%	
8	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
9	Speed	0 - 9 10 - 19	0 - 4 5 - 8	1 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	Stop / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Candle

Channel	Function	Value	Percent	Description	Default % / DMX
4	CCT Range	0 - 9	0 - 4	Warmer	Warmer / 0
		10 - 19	5 - 8	Natural	
		20 - 29	9 - 12	Cooler	
		30 - 255	13 - 100	Reserved	
5	Speed	0 - 9	0 - 4	1	1 / 0
		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	Stop / Loop	0 - 10	0 - 5	Stop	Stop / 0
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Fire

Channel	Function	Value	Percent	Description	Default % / DMX
4	0 - 9 10 - 19 20 - 255	0 - 4 5 - 8 9 - 100	Mode Select	CCT HSI Reserved	CCT / 0
CCT					
5	CCT Lower limit	0 - 255	0 - 100	2000 K - 10000 K	
6	CCT Upper limit	0 - 255	0 - 100	2000 K - 10000 K	
7	G / M	0 - 10 11 - 20 21 - 119 120 - 145 146 - 244 245 - 255	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	No Effect Full Minus Green -99% - -1% Neutral 1% - 99% Full Plus Green	
8	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
HSI					
5	HUE Lower limit	0 - 255	0 - 100	1° - 360°	
6	HUE Upper limit	0 - 255	0 - 100	1° - 360°	
7	Saturation	0 - 255	0 - 100	0 - 100%	
8	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
9	Speed	0 - 9 10 - 19	0 - 4 5 - 8	1 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	Stop / Loop	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Loop	
		128 - 255	51 - 100	Reserved	

FX Parameter: Strobe

Channel	Function	Value	Percent	Description	Default % / DMX	
4		0 - 9	0 - 4	Mode Select	CCT HSI Gel xy Source RGB Reserved	CCT / 0
		10 - 19	5 - 8			
		20 - 29	9 - 12			
		30 - 39	13 - 16			
		40 - 49	17 - 20			
		50 - 59	21 - 24			
		60 - 255	25 - 100			
CCT						
5	CCT	0 - 255	0 - 100	2000K - 10000K	3200K	
6	G / M	0 - 10	0 - 4	No Effect		
		11 - 20	5 - 8	Full Minus Green		
		21 - 119	9 - 47	-99% - -1%		
		120 - 145	48 - 57	Neutral		
		146 - 244	58 - 96	1% - 99%		
245 - 255	97 - 100	Full Plus Green				
7	Speed	0 - 9	0 - 4	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		
		8	Stop / Loop	0 - 10		0 - 5
11 - 127	6 - 50			Loop		
128 - 255	51 - 100			Reserved		
HSI						
5	Hue	0 - 255	0 - 100	1° - 360°		
6	Saturation	0 - 255	0 - 100	0 - 100%		
7	Speed	0 - 9	0 - 4	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 - 99 100 - 109 110 - 255	37 - 40 41 - 44 45 - 100	10 Random Reserved	
8	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
GEL					
5	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
6	Rosco / LEE	0 - 255	0 - 100		
7	Series	0 - 255	0 - 100		
8	Category	0 - 255	0 - 100		
9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
10	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
xy					
5	x coordinate	0 - 255	0 - 100	0 - 0.8	
6	y coordinate	0 - 255	0 - 100	0 - 0.8	
7	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28	1 2 3 4 5 6 7	

		70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	8 9 10 Random Reserved	
8	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
Source					
5	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
6	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
7	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
RGB					
5	Red	0 - 255	0 - 100	0 - 100 %	
6	Green	0 - 255	0 - 100	0 - 100 %	
7	Blue	0 - 255	0 - 100	0 - 100 %	
8	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	

9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
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FX Parameter: Explosion

Channel	Function	Value	Percent	Description	Default % / DMX
4	0 - 9	0 - 4	Mode Select	CCT	CCT / 0
	10 - 19	5 - 8		HSI	
	20 - 29	9 - 12		Gel	
	30 - 39	13 - 16		xy	
	40 - 49	17 - 20		Source	
	50 - 59	21 - 24		RGB	
	60 - 255	25 - 100		Reserved	
CCT					
5	CCT	0 - 255	0 - 100	2000K - 10000K	3200K
6	G / M	0 - 10	0 - 4	No Effect	
		11 - 20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
7	Decay	0 - 9	0 - 4	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			
8	Stop / Trigger	0 - 10	0 - 5	Stop	
		11 - 127	6 - 50	Trigger	
		128 - 255	51 - 100	Reserved	
HSI					
5	Hue	0 - 255	0 - 100	1° - 360°	
6	Saturation	0 - 255	0 - 100	0 - 100%	
7	HSI Base CCT	0 - 10	0 - 4	6500 K	
		11 - 255	5 - 100	2000 K - 10000 K	
8	Decay	0 - 9	0 - 4	1	
		10 - 19	5 - 8	2	
		20 - 29	9 - 12	3	
		30 - 39	13 - 16	4	

		40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	5 6 7 8 9 10 Reserved	
9	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
GEL					
5	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
6	Rosco / LEE	0 - 255	0 - 100		
7	Series	0 - 255	0 - 100		
8	Category	0 - 255	0 - 100		
9	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	
10	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
xy					
5	x coordinate	0 - 255	0 - 100	0 - 0.8	
6	y coordinate	0 - 255	0 - 100	0 - 0.8	
7	Decay	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24	1 2 3 4 5 6	

		60 - 69 70 - 79 80 - 89 90 - 99 100 - 255	25 - 28 29 - 32 33 - 36 37 - 40 41 - 100	7 8 9 10 Reserved	
8	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
Source					
5	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
6	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	
7	Stop / Trigger	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Trigger Reserved	
RGB					
5	Red	0 - 255	0 - 100	0 - 100 %	
6	Green	0 - 255	0 - 100	0 - 100 %	
7	Blue	0 - 255	0 - 100	0 - 100 %	
8	Decay	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	1 2 3 4 5 6 7 8 9 10 Reserved	
9	Stop /	0 - 10 11 - 127	0 - 5 6 - 50	Stop Trigger	

	Trigger	128 - 255	51 - 100	Reserved	
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FX Parameter: Faulty Bulb

Channel	Function	Value	Percent	Description	Default % / DMX	
4		0 - 9	0 - 4	Mode Select	CCT HSI Gel xy Source RGB Reserved	CCT / 0
		10 - 19	5 - 8			
		20 - 29	9 - 12			
		30 - 39	13 - 16			
		40 - 49	17 - 20			
		50 - 59	21 - 24			
		60 - 255	25 - 100			
CCT						
5	CCT	0 - 255	0 - 100	2000K - 10000K	3200K	
6	G / M	0 - 10	0 - 4	No Effect		
		11 - 20	5 - 8	Full Minus Green		
		21 - 119	9 - 47	-99% - -1%		
		120 - 145	48 - 57	Neutral		
		146 - 244	58 - 96	1% - 99%		
245 - 255	97 - 100	Full Plus Green				
7	Frequency	0 - 9	0 - 4	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		
8	Speed	0 - 9	0 - 4	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		
9	Stop / Loop	0 - 10	0 - 5	Stop		
		11 - 127	6 - 50	Loop		
		128 - 255	51 - 100	Reserved		
HSI						
5	Hue	0 - 255	0 - 100	1° - 360°		

6	Saturation	0 - 255	0 - 100	0 - 100%	
7	HSI Base CCT	0 - 10 11 - 255	0 - 4 5 - 100	6500 K 2000 K - 10000 K	
8	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
9	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
10	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
GEL					
5	CCT	0 - 255	0 - 100	See Table in Mode 6: GEL	
6	Rosco / LEE	0 - 255	0 - 100		
7	Series	0 - 255	0 - 100		
8	Category	0 - 255	0 - 100		
9	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28	1 2 3 4 5 6 7	

		70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	8 9 10 Random Reserved	
10	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
11	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
xy					
5	x coordinate	0 - 255	0 - 100	0 - 0.8	
6	y coordinate	0 - 255	0 - 100	0 - 0.8	
7	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
8	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	

9	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
Source					
5	Source	0 - 255	0 - 100	See Table in Mode 8: Source	
6	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24 25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	1 2 3 4 5 6 7 8 9 10 Random Reserved	
7	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
8	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	
RGB					
5	Red	0 - 255	0 - 100	0 - 100 %	
6	Green	0 - 255	0 - 100	0 - 100 %	
7	Blue	0 - 255	0 - 100	0 - 100 %	
8	Frequency	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59	0 - 4 5 - 8 9 - 12 13 - 16 17 - 20 21 - 24	1 2 3 4 5 6	

		60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 255	25 - 28 29 - 32 33 - 36 37 - 40 41 - 44 45 - 100	7 8 9 10 Random Reserved	
9	Speed	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	1 2 3 4 5 6 7 8 9 10 Reserved	
10	Stop / Loop	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop Loop Reserved	

FX Parameter: Pulsing

Channel	Value	Percent	Function	
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	0 - 255	0 - 100	CCT	2000 K - 10000K
6	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
7	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
	8	0 - 9		0 - 4
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	

Channel	Value	Percent	Function	
9	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 10 11 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K
8	0 - 255	0 - 100	Frequency	1 - 10
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
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

Channel	Value	Percent	Function	
XY				
5	0 - 255	0 - 100	X coordinate	0 - 0.8
6	0 - 255	0 - 100	Y coordinate	0 - 0.8
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
Source				
5	0 - 255	0 - 100	Source	See Table in Mode 8: 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				
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 - 255	0 - 100	Frequency	1 - 10
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

FX Parameter: Welding

Channel	Value	Percent	Function	
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	0 - 255	0 - 100	CCT	2000 K - 10000K
6	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
7	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
	8	0 - 255		0 - 100
9	0 - 10	0 - 5	Stop / Loop	Stop
	11 - 127	6 - 50		Loop
	128 - 255	51 - 100		Reserved

Channel	Value	Percent	Function	
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 10 11 - 255	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K
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
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	Min Brightness	0 - 75%
11	0 - 10 11 - 127 128 - 255	0 - 5 6 - 50 51 - 100	Stop / Loop	Stop Loop Reserved
XY				
5	0 - 255	0 - 100	X coordinate	0 - 0.8
6	0 - 255	0 - 100	Y coordinate	0 - 0.8
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

Channel	Value	Percent	Function	
Source				
5	0 - 255	0 - 100	Source	See Table in Mode 8: Source
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
RGB				
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 - 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

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	
4	0 - 255	0 - 100	Saturation	0 - 100%
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: Party Lights

Channel	Value	Percent	Function	
4	0 - 255	0 - 100	Saturation	0 - 100%
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: 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

Mode 22: WWRGB -16Bit (10ch)

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

Mode 23: Ultimate Mode -16Bit (16ch)

Channel	Value	Percent	Function		Default % / DMX
1/2	0 - 65535	0 - 100	Intensity	0 - 100%	0% / 0
3	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	
4 - 19	See Lighting Mode Parameter Tables in Following Pages				

Lighting Mode Parameter: CCT & RGB

Channel	Value	Percent	Function		Default % / DMX
4/5	0 - 65535	0 - 100	CCT	2000 K - 10000 K	3200K /
6/7	0 - 2621 2622 - 5243 5244 - 30146 30147 - 37355 37356 - 62914 62915 - 65535	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	±Green	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green	Neutral /
8/9	0 - 65535	0 - 100	CCT ↔ RGB	Crossfade to Color	0 % / 0
10/11	0 - 65535	0 - 100	Red	0 - 100%	100 % / 65535
12/13	0 - 65535	0 - 100	Green	0 - 100%	100 % / 65535
14/15	0 - 65535	0 - 100	Blue	0 - 100%	100 % / 65535
16/17	0 - 19 20 - 255	0 - 78 - 100	Strobe	No Effect 1 Hz - 25 Hz	0% / Off
18					
19					

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Lighting Mode Parameter: CCT

Channel	Value	Percent	Function		Default % / DMX
4/5	0 - 65535	0 - 100	CCT	2000 K - 10000 K	
6/7	0 - 2621 2622 - 5243 5244 - 30146 30147 - 37355 37356 - 62914 62915 - 65535	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	±G	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green	
8	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz	
9-19					

Lighting Mode Parameter: HSIC+

Channel	Value	Percent	Function		Default % / DMX
4/5	0 - 65535	0 - 100	CCT	2000 K - 10000 K	
6/7	0 - 2621 2622 - 5243 5244 - 30146 30147 - 37355 37356 - 62914 62915 - 65535	0 - 4 5 - 8 9 - 47 48 - 57 58 - 96 97 - 100	±G	Neutral / No Effect Full Minus Green - 99% - - 1% Neutral / No Effect 1% - 99% Full Plus Green	
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	0 - 19 20 - 255	0 - 7 80 - 100	Strobe	No Effect 1 Hz - 25 Hz	
15-19					

Lighting Mode Parameter: RGB

Channel	Value	Percent	Function		Default % / DMX
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 80 - 100	Strobe	No Effect 1 Hz - 25 Hz	
11-19					

Lighting Mode Parameter: HSI

Channel	Value	Percent	Function		Default % / DMX
4/5	0 - 65535	0 - 100	Hue	1° - 360°	
6/7	0 - 65535	0 - 100	Saturation	0 - 100%	
8/9	0 - 2621 2622 - 65535	0 - 4 5 - 100	HSI Base CCT	6500 K 2000 K - 10000 K	3200K/12059
10	0 - 19 20 - 255	0 - 7 80 - 100	Strobe	No Effect 1 Hz - 25 Hz	
11-19					

Lighting Mode Parameter: GEL

Channel	Value	Percent	Function		Default % / DMX
4	0 - 126 127 - 255	0 - 50 51 - 100	CCT	3200K 5600K	
5	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco / Lee	Rosco Lee Reserved	
6	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	

7	0 - 255	0 - 100	Category	See GEL Category Tables in Mode 6: GEL	
8	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz	
9-19					

Lighting Mode Parameter: xy

Channel	Value	Percent	Function		Default % / DMX
4/5	0 - 65535	0 - 100	x Coordinate	0 - 0.8	3200K (0.4234 / ??)
6/7	0 - 65535	0 - 100	y Coordinate	0 - 0.8	3200K (0.3989 / ??)
8	0 - 19 20 - 255	0 - 7 8 - 100	Strobe	No Effect 1 Hz - 25 Hz	
9-19					

Lighting Mode Parameter: Source

Channel	Value	Percent	Function		Default % / DMX
4	0 - 255	0 - 100	Source Matching	See Tables in Mode 8: 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	
8-19					

Lighting Mode Parameter: FX

Channel	Value	Percent	Function		Default % / DMX
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 Cop	
	110 - 119	45 - 48		Car Color	
	120 - 129	49 - 52		Chase Party	
	130 - 139	53 - 56		Lights	
	140 - 149	57 - 60		Firework	
150 - 255	61 - 100	Reserved			
5 - 19	See FX Parameter Tables in Mode 9: FX 8-bit				

Mode 24: HSIC+ - 16Bit (11ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1/2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3/4	CCT	0 - 65535	0 - 100	2000K- 10000K	3200K / 9831
5/6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 35061
		0 - 4587	0 - 7	No Effect*	
		4588 - 9830	8 - 15	Full Minus Green	
		9831 - 30145	16 - 46	-99% - -1%	
		30146 - 39976	47 - 61	0% Neutral	
		39977 - 60292	62 - 92	1% - 99%	
60293 - 65535	93 - 100	Full Plus Green			
7/8	Hue	0 - 65535	0 - 100	0° - 359°	0° / 0
9/10	Saturation	0 - 65535	0 - 100	0 - 100%	0% / 0
11	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	

* Do not patch "No Effect" range into consoles

CCT Quick Chart

CCT	8-bit DMX Value	16-bit DMX Value
2500 K	0	0
3200 K	24	6117
3800 K	44	11360
4300 K	61	15729
4800 K	78	20098
5600 K	106	27088
6500 K	136	34952
7500 K	170	43690
9000 K	221	56797
10000 K	255	66535

No Effect Ranges

In some DMX profiles, you may encounter a "No Effect" range at the beginning of a channel. This range is typically meant for slider boards, ensuring that when the slider is at 0, no effect is applied. These ranges should not be patched into lighting consoles, as they serve only to prevent unintended changes when the control is idle.

Channel	Function	Value	Percent	Description
X	±Green	0 - 255	0 - 100	Minus Green to Plus Green
		0 - 10	0 - 4	No Effect*
		11-20	5 - 8	Full Minus Green
		21 - 119	9 - 47	-99% - -1%
		120 - 145	48 - 57	0% Neutral
		146 - 244	58 - 96	1% - 99%
		245 - 255	97 - 100	Full Plus Green