



INFINIMAT

DMX Profile Specification

Controller Firmware V1.0

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Light Engine Control

INFINIMAT contains both single pixel Profiles and Light Engine DMX Profiles.

In Single Pixel Mode, all pixels of each INFINIMAT are controlled by 1 set of values.

In Light Engine mode, each INFINIMAT utilizes the maximum number of pixels available.

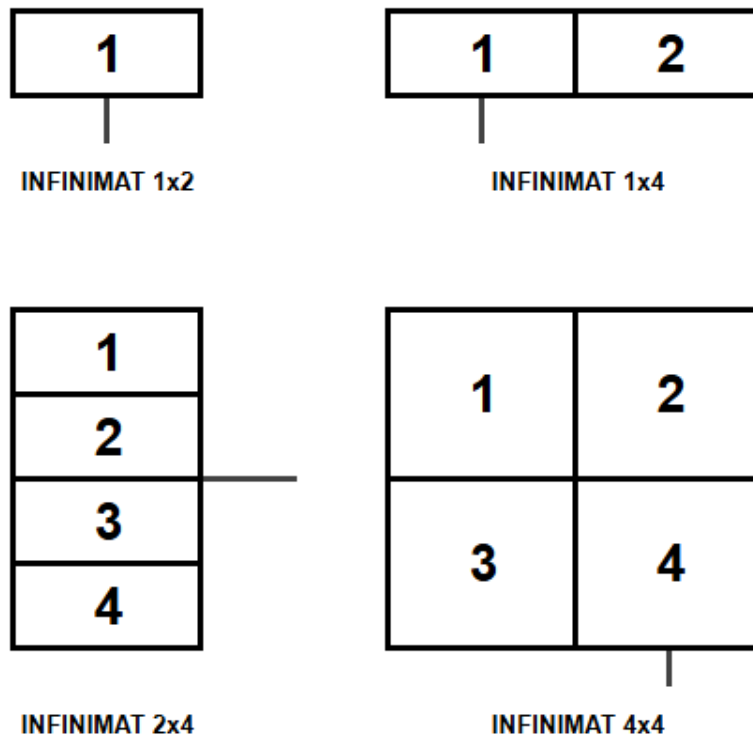
Individual light engine control supports the control of

- INFINIMAT 1x2 - One (1) light engine
- INFINIMAT 1x4 - Two (2) light engines
- INFINIMAT 2x4 - Four (4) light engines
- INFINIMAT 4x4 - Four (4) light engines
- INFINIMAT 8x8 - Sixteen (16) light engines

Each DMX protocol supports the DMX modes CCT & RGB, HSI and x, y coordinates for each light engine.

Light Engine Numbering

For individual light engine control via DMX each light engine is identified by a specific number. The following definition will be used (Light engine positions seen from the front):



1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

INFINIMAT 8x8

Each Light engine requires its own set of DMX Parameters per light engine.

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
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 255	0 - 100	2000K- 10000K
3	±Green	0 - 255	0 - 100	Minus Green to Plus 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 -99% - -1% 0 % / Neutral 1% - 99% Full Plus Green

Function Configuration DMX Extension

When **Function Configuration** is ON, two additional DMX channels are added after each pixel's profile: one for controlling the fan parameter and another for setting the dimmer curve. When it is OFF, no extra channels are used, simplifying the DMX setup.

Single Pixel Profiles - 8 Bit

Mode 1: CCT & RGB 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 255	0 - 100	2000K- 10000K
3	±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 -99% - -1% 0 % / Neutral 1% - 99% Full Plus Green
4	CCT ↔RGB	0 - 255	0 - 100	Crossfade to Color
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	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
9	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
10	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 2: CCT 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 255	0 - 100	2000K- 10000K
3	±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		
4	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
5	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
6	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 3: CCT & HSI 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 255	0 - 100	2000K- 10000K
3	±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 -0.98 0 % / Neutral 1% - 99% Full Plus Green
4	CCT ↔ HSI	0 - 255	0 - 100	Crossfade to Color
5	Hue	0 - 255	0 - 100	1 - 360°
6	Saturation	0 - 255	0 - 100	0 - 100%
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
8	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
9	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 4: RGBWW 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Red	0 - 255	0 - 100	0 - 100%
3	Green	0 - 255	0 - 100	0 - 100%
4	Blue	0 - 255	0 - 100	0 - 100%
5	White	0 - 255	0 - 100	0 - 100%
6	Warm White	0 - 255	0 - 100	0 - 100%
7	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
8	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
9	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 5: Adv.HSI 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Hue	0 - 255	0 - 100	1° - 360°
3	Saturation	0 - 255	0 - 100	0 - 100%
4	HSI Base CCT	0 - 9	0 - 4	6500 K
		10 - 255	5 - 100	2000K- 10000K
5	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
6	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
7	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 6: x,y 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	x Coordinate	0 - 255	0 - 100	0 - 0.8
3	y Coordinate	0 - 255	0 - 100	0 - 0.8
4	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
5	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
6	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 7: Gel 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 127 128 - 255	0 - 50 51 - 100	3200K 5600K
3	Rosco / Lee	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco Lee Reserved
4	Series	0 - 9 10-19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 45181 13 - 16 17 - 20 21 - 100	R-Col.corr / L-Col.corr R-Cal color / L-Cal.Filter R-Storaro / L-600 Series R-Cinelux / L-Cosmetic R-reserved / L-700 Series Reserved
5	Category	0 - 255	0 - 100	See GEL Category Tables In Following Pages
6	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
7	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
8	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

GEL Category 1: Rosco – Color Correction			
Channel	Value	Gel Name	Number
5	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
	30-31	1/4 CTS	3443
	32-33	1/8 CTS	3444
	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	Number
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
	12-13	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
	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	Number
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
	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	Number
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
	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
	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
	64-65	Cerulean Blue	375
	66-67	Bermuda Blue	376
	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	

5	84-85 86-87 88-89 90-91 92-255	Primary Green Turquoise Blue Green Chocolate Reserved	91 92 93 99 -
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GEL Category 1: LEE – Color Correction			
Channel	Value	Gel Name	Number
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
	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	Number
5	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
	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	

5	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
	102-103	Smokey Pink	127
	104-105	Bright Pink	128
	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
	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	
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	Number
5	0-1	Arctic White	600
	2-3	Silver	
	4-5	Platinum	
	6-7	Moonlight White	
	8-9	Full CT 85	
	10-11	Industry Sodium	
	12-13	HI Sodium	
	14-15	Urban Sodium	
	16-17	LO Sodium	
	18-255	Reserved	

GEL Category 4: LEE – Cosmetic Filters			
Channel	Value	Gel Name	Number
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
	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	Number
5	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 8: Source 8-bit

Channel	Function	Value	Percent	
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Source	0 - 2	0 - 1	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
60 - 62	40 - 41	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		

2	Source	123 - 125 126 - 128 129 - 131 132 - 134 135 - 137 138 - 255	82 - 83 84 - 85 86 - 87 88 - 89 90 - 91 92 - 100	Green Glow Stick Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved
3	X Coordinate	0 - 127 128 - 255	0 - 50 51 - 100	0.0000 - +0.0050 0.0000 - -0.0050
4	Y Coordinate	0 - 127 128 - 255	0 - 50 51 - 100	0.0000 - +0.0050 0.0000 - -0.0050
5	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
6	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
7	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 9: FX 8-bit

Channel	Value	Percent	Function	
1	0 - 255	0 - 100	Intensity	0 - 100%
2	0 - 9	0 - 4	Lightning	Loop
	10 - 69	5 - 27		Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Explosion	Trigger
	70 - 255	28 - 100		Stop
	0 - 69	0 - 27	Other Effects	Loop
70 - 255	28 - 100	Stop		
3	0 - 9	0 - 4	Effect 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 - 255	61 - 100	Reserved		
4 - X	See FX Parameter Tables in Following Pages			
Function Configuration (Defaults to OFF)				
NA	0 - 63	0 - 25	Fan Mode	Smart

	64 - 127 128 - 191 192 - 255	26 - 50 51 - 75 76 - 100		High Medium Silent
NA	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Dimming Curve	Linear S - curve Exp Log

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

FX Parameter: Paparazzi				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	CCT	2000K - 10000K
5	0 - 10	0 - 4	±Green	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
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

FX Parameter: Lightning				
Channel	Value	Percent	Function	
4	0 - 255	0 - 100	CCT	2000K - 10000K
5	0 - 10	0 - 4	±Green	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
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 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

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	

FX Parameter: Candle				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 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

FX Parameter: Fire				
Channel	Value	Percent	Function	
4	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Natural
	20 - 29	9 - 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

FX Parameter: Strobe				
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	2000K - 10000K
6	0 - 10	0 - 4	±Green	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		
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 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Speed	1 - 10 - Random
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL
8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Speed	1 - 10 - Random
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	Speed	1 - 10 - Random
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Speed	1 - 10 - Random
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	Speed	1 - 10 - Random

FX Parameter: Explosion				
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	2000K - 10000K
6	0 - 10	0 - 4	±Green	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
7	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		

HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Decay	1 - 10
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL
8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Decay	1 - 10
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	Decay	1 - 10
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Decay	1 - 10
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	Decay	1 - 10

FX Parameter: Faulty Bulb				
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	2000K - 10000K
6	0 - 10	0 - 4	±Green	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
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 - 109	41 - 44		Random

	110 - 255	45 - 100		Reserved
8	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		
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL
8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Speed	1 - 10
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 - Random
8	0 - 255	0 - 100	Speed	1 - 10

Source				
5			Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
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 - Random
9	0 - 255	0 - 100	Speed	1 - 10

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	2000K - 10000K
6	0 - 10	0 - 4	±Green	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
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL

8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Speed	1 - 10
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 - Random
8	0 - 255	0 - 100	Speed	1 - 10
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Speed	1 - 10
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 - Random
9	0 - 255	0 - 100	Speed	1 - 10

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	2000K - 10000K
6	0 - 10	0 - 4	±Green	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
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
HSI				
5	0 - 255	0 - 100	HUE	1° - 360°
6	0 - 255	0 - 100	Saturation	0 - 100%
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
GEL				
5	0 - 255	0 - 100	CCT	Refer to Mode: GEL
6	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
7	0 - 255	0 - 100	Series	Refer to Mode: GEL

8	0 - 255	0 - 100	Category	Refer to Mode: GEL
9	0 - 255	0 - 100	Frequency	1 - 10 - Random
10	0 - 255	0 - 100	Min Brightness	0 - 75%
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 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
Source				
5	0 - 255	0 - 100	Source	Refer to Mode: Source
6	0 - 255	0 - 100	Frequency	1 - 10 - Random
7	0 - 255	0 - 100	Min Brightness	0 - 75%
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 - Random
9	0 - 255	0 - 100	Min Brightness	0 - 75%

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

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

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

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

Light Engine Control Profiles - 8 Bit

Mode 10: LE CCT&RGB 8-bit

Channel	Function	Value	Percent	Description
Light Engine 1				
1	Intensity	0 - 255	0 - 100	0 - 100%
2	CCT	0 - 255	0 - 100	2000K- 10000K
3	±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		
4	CCT - RGB	0 - 255	0 - 100	Crossfade to Color
5	Red	0 - 255	0 - 100	0 - 100%
6	Green	0 - 255	0 - 100	0 - 100%
7	Blue	0 - 255	0 - 100	0 - 100%
Light Engine 2				
8	Intensity	0 - 255	0 - 100	0 - 100%
9	CCT	0 - 255	0 - 100	2000K- 10000K
10	±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		
11	CCT - RGB	0 - 255	0 - 100	Crossfade to Color
12	Red	0 - 255	0 - 100	0 - 100%
13	Green	0 - 255	0 - 100	0 - 100%
14	Blue	0 - 255	0 - 100	0 - 100%

*Each light Engine requires 7 channels under LE CCT & RGB.

*The feature Function Configuration is not available under LE Profile.

Mode 11: LE RGB 8-bit

Channel	Function	Value	Percent	Description
Light Engine 1				
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Red	0 - 255	0 - 100	2000K- 10000K
3	Green	0 - 255	0 - 100	0 - 100%
4	Blue	0 - 255	0 - 100	0 - 100%
Light Engine 2				
5	Intensity	0 - 255	0 - 100	0 - 100%
6	Red	0 - 255	0 - 100	2000K- 10000K
7	Green	0 - 255	0 - 100	0 - 100%
8	Blue	0 - 255	0 - 100	0 - 100%

*Each light Engine requires 4 channels under LE RGB.

*The feature Function Configuration is not available under LE Profile.

Mode 12: LE HSI 8-bit

Channel	Function	Value	Percent	Description
Light Engine 1				
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Hue	0 - 255	0 - 100	1° - 360°
3	Saturation	0 - 255	0 - 100	0 - 100%
Light Engine 2				
4	Intensity	0 - 255	0 - 100	0 - 100%
5	Hue	0 - 255	0 - 100	1° - 360°
6	Saturation	0 - 255	0 - 100	0 - 100%

*Each light Engine requires 3 channels under LE HSI.

*The feature Function Configuration is not available under LE Profile.

Mode 13: LE x,y 8-bit

Channel	Function	Value	Percent	Description
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 1				
4	0 - 255	0 - 100	Intensity	0 - 100%
5	0 - 255	0 - 100	x Coordinate	1° - 360°
6	0 - 255	0 - 100	y Coordinate	0 - 100%

*Each light Engine requires 3 channels under LE x,y.

*The feature Function Configuration is not available under LE Profile.

Mode 14: Ultimate 8-bit

Channel	Function	Value	Percent	Description
1	Intensity	0 - 255	0 - 100	0 - 100%
2	Lighting Mode Selection	0 - 9	0 - 4	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	x,y
		70 - 79	29 - 32	Source
		80 - 89	33 - 36	FX
		100 - 255	41 - 100	Reserved
See Lighting Mode Parameter Tables Above				

Single Pixel Profiles - 16 Bit

Mode 15: CCT&RGB 16-bit

Channel	Function	Value	Percent	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	CCT	0 - 65535	0 - 100	2000K- 10000K
5 - 6	±Green	0 - 4587 4588 - 9830 9831 - 30145 30146 - 39976 39977 - 60292 60293 - 65535	0 - 7 8 - 15 16 - 46 47 - 61 62 - 92 93 - 100	No Effect* Full Minus Green -99% - -1% 0 % / Neutral 1% - 99% Full Plus Green
7 - 8	CCT ↔RGB	0 - 65535	0 - 100	Crossfade to Color
9 - 10	Red	0 - 65535	0 - 100	0 - 100%
11 - 12	Green	0 - 65535	0 - 100	0 - 100%
13 - 14	Blue	0 - 65535	0 - 100	0 - 100%
15	Strobe	0 - 19 20 - 255	0 - 7	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
16	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
17	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 16: CCT 16-bit

Channel	Function	Value	Percent	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	CCT	0 - 65535	0 - 100	2000K- 10000K
5 - 6	±Green	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	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
14	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
15	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 17: CCT & HSI 16-bit

Channel	Percent	Function	Value	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	CCT	0 - 65535	0 - 100	2000K- 10000K
5 - 6	±Green	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
9 - 10	Hue	0 - 65535	0 - 100	0.1 - 360°
11 - 12	Saturation	0 - 65535	0 - 100	0 - 100%
13	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
14	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
15	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 18: RGB 16-bit

Channel	Function	Value	Percent	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	Red	0 - 65535	0 - 100	0 - 100%
5 - 6	Green	0 - 65535	0 - 100	0 - 100%
7 - 8	Blue	0 - 65535	0 - 100	0 - 100%
9 - 10	White	0 - 65535	0 - 100	0 - 100%
11 - 12	Warm White	0 - 65535	0 - 100	0 - 100%
13	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
14	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
15	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 19: Adv.HSI 16-bit

Channel	Function	Value	Percent	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	Hue	0 - 65535	0 - 100	0.1° - 360°
5 - 6	Saturation	0 - 65535	0 - 100	0 - 100%
7 - 8	HSI Base CCT	0 - 2295	0 - 4	6500 K
		2296 - 65536	5 - 100	2000K- 10000K
9	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
10	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
11	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 20: x,y 16-bit

Channel	Function	Value	Percent	Description
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	x Coordinate	0 - 65535	0 - 100	0 - 0.8
5 - 6	y Coordinate	0 - 65535	0 - 100	0 - 0.8
7	Strobe	0 - 19	0 - 7	NO Effect
		20 - 255	8 - 100	1Hz - 25Hz
Function Configuration (Defaults to OFF)				
8	Fan Mode	0 - 63	0 - 25	Smart
		64 - 127	26 - 50	High
		128 - 191	51 - 75	Medium
		192 - 255	76 - 100	Silent
9	Dimming Curve	0 - 63	0 - 25	Linear
		64 - 127	26 - 50	S - curve
		128 - 191	51 - 75	Exp
		192 - 255	76 - 100	Log

Mode 21: Gel 16-bit

Channel	Percent	Function	Value	Description
1-2	Intensity	0 - 65535	0 - 100	0 - 100%
3	CCT	0 - 127 128 - 255	0 - 50 51 - 100	3200K 5600K
4	Rosco / Lee	0 - 29 30 - 59 60 - 255	0 - 12 13 - 24 25 - 100	Rosco Lee Reserved
5	Series	0 - 9 10-19 20 - 29 30 - 39 40 - 49 50 - 255	0 - 4 5 - 8 45181 13 - 16 17 - 20 21 - 100	R-Col.corr / L-Col.corr R-Cal color / L-Cal.Filter R-Storaro / L-600 Series R-Cinelux / L-Cosmetic R-reserved / L-700 Series Reserved
6	Category	0 - 255	0 - 100	See GEL Category Tables Mode 6: Gel
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
8	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
9	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 22: Source 16-bit

Channel	Function	Value	Percent	Description
1-2	Intensity	0 - 65535	0 - 100	0 - 100%
3	Source	0 - 2	0 - 1	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
		60 - 62	40 - 41	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 - 128 129 - 131 132 - 134 135 - 137 138 - 255	84 - 85 86 - 87 88 - 89 90 - 91 92 - 100	Red Glow Stick Yellow Glow Stick Pink Glow Stick Violet Glow Stick Reserved
4	X Coordinate	0 - 127 128 - 255	0 - 50 51 - 100	0.0000 - +0.0050 0.0000 - -0.0050
5	Y Coordinate	0 - 127 128 - 255	0 - 50 51 - 100	0.0000 - +0.0050 0.0000 - -0.0050
6	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	NO Effect 1Hz - 25Hz
Function Configuration (Defaults to OFF)				
7	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
8	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

Mode 23: FX 16-bit

Channel	Function	Value	Percent	Description
1-2	Intensity	0 - 65535	0 - 100	0 - 100%
3	Lightning	0 - 9	0 - 4	Loop
		10 - 69	5 - 27	Trigger
		70 - 255	28 - 100	Stop
3	Explosion	0 - 69	0 - 27	Trigger
		70 - 255	28 - 100	Stop
		Other Effects	0 - 69	0 - 27
4	Effect Selection	70 - 255	28 - 100	Stop
		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	Fireworks		
150 - 255	61 - 100	Reserved		
5- X	See FX Parameter Tables in Following Pages			
Function Configuration (Defaults to OFF)				

NA	Fan Mode	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Smart High Medium Silent
NA	Dimming Curve	0 - 63 64 - 127 128 - 191 192 - 255	0 - 25 26 - 50 51 - 75 76 - 100	Linear S - curve Exp Log

FX Parameter:Club Lights				
Channel	Value	Percent	Function	
5	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
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

FX Parameter:Paparazzi				
Channel	Value	Percent	Function	
5 - 6	0 - 65535	0 - 100	CCT	2000K - 10000K
7 - 8	0 - 4587	0 - 7	±Green	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
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

FX Parameter:Lightning				
Channel	Value	Percent	Function	
5 - 6	0 - 65535	0 - 100	CCT	2000K - 10000K
7 - 8	0 - 4587	0 - 7	±Green	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
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		
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 - 109	41 - 44		Random
	110 - 255	45 - 100		Reserved

FX Parameter:TV				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 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

FX Parameter:Candle				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	12 - 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 - 255	41 - 100		Reserved

FX Parameter:Fire				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	CCT Range	Warmer
	10 - 19	5 - 8		Neutral
	20 - 29	9 - 12		Cooler
	30 - 255	13 - 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 - 255	41 - 100		Reserved

FX Parameter:Strobe				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	0 - 4587	0 - 7	±Green	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		
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 - 109	41 - 44		Random

	110 - 255	45 - 100		Reserved
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Speed	1 - 10 - Random
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Speed	1 - 10 - Random
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Speed	1 - 10 - Random
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Speed	1 - 10 - Random
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Speed	1 - 10 - Random

FX Parameter:Explosion				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	0 - 4587	0 - 7	±Green	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
10	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

HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Decay	1月10日
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Decay	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Decay	1 - 10
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Decay	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Decay	1 - 10

FX Parameter:Faulty Bulb				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	0 - 4587	0 - 7	±Green	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
10	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
11	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
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL
8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random

11	0 - 255	0 - 100	Speed	1 - 10
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Speed	1 - 10

FX Parameter:Pulsing				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	0 - 4587	0 - 7	±Green	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		
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL

8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Speed	1 - 10
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Speed	1 - 10
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Speed	1 - 10

FX Parameter:Welding				
Channel	Value	Percent	Function	
5	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				
6 - 7	0 - 65535	0 - 100	CCT	2000K - 10000K
8 - 9	0 - 4587	0 - 7	±Green	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
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
HSI				
6 - 7	0 - 65535	0 - 100	HUE	1° - 360°
8 - 9	0 - 65535	0 - 100	Saturation	0 - 100%
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
GEL				
6	0 - 255	0 - 100	CCT	Refer to Mode: GEL
7	0 - 255	0 - 100	Rosco / LEE	Refer to Mode: GEL

8	0 - 255	0 - 100	Series	Refer to Mode: GEL
9	0 - 255	0 - 100	Category	Refer to Mode: GEL
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
XY				
6 - 7	0 - 65535	0 - 100	X coordinate	0 - 0.8
8 - 9	0 - 65535	0 - 100	Y coordinate	0 - 0.8
10	0 - 255	0 - 100	Frequency	1 - 10 - Random
11	0 - 255	0 - 100	Min Brightness	0 - 75%
Source				
6	0 - 255	0 - 100	Source Matching	Refer to Mode: Source
7	0 - 255	0 - 100	Frequency	1 - 10 - Random
8	0 - 255	0 - 100	Min Brightness	0 - 75%
RGB				
6 - 7	0 - 65535	0 - 100	Red	0 - 100%
8 - 9	0 - 65535	0 - 100	Green	0 - 100%
10 - 11	0 - 65535	0 - 100	Blue	0 - 100%
12	0 - 255	0 - 100	Frequency	1 - 10 - Random
13	0 - 255	0 - 100	Min Brightness	0 - 75%

FX Parameter:Cop Car				
Channel	Value	Percent	Function	
5	0 - 9	0 - 4	Colors	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
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

FX Parameter:Color Chase				
Channel	Value	Percent	Function	
5	0 - 255	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

FX Parameter:Party Lights				
Channel	Value	Percent	Function	
5	0 - 255	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

FX Parameter:Fireworks			
Channel	Value	Percent	Function
5	0 - 9	0 - 4	CCT
	10 - 19	5 - 8	HUE
	20 - 29	9 - 12	CCT+HUE
	30 - 255	13 - 100	Reserved
6	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

Light Engine Control Profiles - 16 Bit

Mode 24: LE CCT&RGB 16-bit

Channel	Function	Value	Percent	Description
Light Engine 1				
1-2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	CCT	0 - 65535	0 - 100	2000K- 10000K
5 - 6	±Green	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 - RGB	0 - 65535	0 - 100	Crossfade to Color
9 - 10	Red	0 - 65535	0 - 100	0 - 100%
11 - 12	Green	0 - 65535	0 - 100	0 - 100%
13 - 14	Blue	0 - 65535	0 - 100	0 - 100%
Light Engine 2				
15 - 16	Intensity	0 - 65535	0 - 100	0 - 100%
17 - 18	CCT	0 - 65535	0 - 100	2000K- 10000K
19 - 20	±Green	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		
21 - 22	CCT - RGB	0 - 65535	0 - 100	Crossfade to Color
23 - 24	Red	0 - 65535	0 - 100	0 - 100%
25 - 26	Green	0 - 65535	0 - 100	0 - 100%
27 - 28	Blue	0 - 65535	0 - 100	0 - 100%

*Each light Engine requires 14 channels under LE CCT & RGB 16bit.

*The feature Function Configuration is not available under LE Profile.

Mode 25: LE RGB 16-bit

Channel	Percent	Function	Value	Description
Light Engine 1				
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	Red	0 - 65535	0 - 100	0 - 100%
5 - 6	Green	0 - 65535	0 - 100	0 - 100%
7 - 8	Blue	0 - 65535	0 - 100	0 - 100%
Light Engine 2				
9 - 10	Intensity	0 - 65535	0 - 100	0 - 100%
11 - 12	Red	0 - 65535	0 - 100	0 - 100%
13 - 14	Green	0 - 65535	0 - 100	0 - 100%
15 - 16	Blue	0 - 65535	0 - 100	0 - 100%

*Each light Engine requires 8 channels under LE RGB 16bit.

*The feature Function Configuration is not available under LE Profile.

Mode 26: LE HSI 16-bit

Channel	Function	Value	Percent	Description
Light Engine 1				
1 - 2	Intensity	0 - 65535	0 - 100	0 - 100%
3 - 4	Hue	0 - 65535	0 - 100	1° - 360°
5 - 6	Saturation	0 - 65535	0 - 100	0 - 100%
Light Engine 2				
9 - 10	Intensity	0 - 65535	0 - 100	0 - 100%
11 - 12	Hue	0 - 65535	0 - 100	1° - 360°
13 - 14	Saturation	0 - 65535	0 - 100	0 - 100%

*Each light Engine requires 6 channels under LE HSI 16bit.

*The feature Function Configuration is not available under LE Profile.

Mode 27: LE x,y 16-bit

Channel	Value	Percent	Function	
Light Engine 2				
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	1° - 360°
11 - 12	0 - 65535	0 - 100	y Coordinate	0 - 100%

*Each light Engine requires 6 channels under LE x,y 16bit.

*The feature Function Configuration is not available under LE Profile.

Mode 28: Ultimate 16-bit

Channel	Value	Percent	Function	
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		x,y
	70 - 79	29 - 32		Source
	80 - 79	33 - 36		FX
	90 - 255	37 - 100		Reserved
See Lighting Mode Parameter Tables Above				