



# GEMINI

Series

DMX Function Reference

V3.7

For use with:

- Gemini 2x1 Soft FW Rev C5  
and newer: January 5<sup>th</sup>, 2021
- Gemini 1x1 Soft FW Rev B2  
and later: January 5<sup>th</sup>, 2021

DMX Options adjust on fixture (or use RDM to adjust):

- DMX version: Vers 1 (original), Vers 2 (extended gels)

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## Introduction

Litepanels' Gemini family of lights can be controlled via DMX. Starting at a base channel, all other control channels are offset from that base channel as indicated in the following charts.

Each DMX mode can operate in 8-bit or 16-bit resolution. These two options are presented side-by-side in this document for easy comparison. The 8-bit options are in the left column chart while the 16-bit options are shown in the right column chart.

Note that some charts may extend onto multiple pages.

Several DMX options can be adjusted directly on the Gemini fixture, or adjusted via RDM control:

- DMX version: Version 1, Version 2, CCT&RGBW (Version 3), CCT&HSI (Version 4)
- DMX channel: 1-497 range
- DMX resolution: 8/16 bit
- DMX mod Cntrl Enable/Disable
- DMX term resistor: ON/OFF (Gemini 1x1 only)
- Fan Cntrl settings

Please see the **Gemini RDM Reference Guide** for details on these settings.

For additional DMX control information in Gel Mode, refer to the **Gemini Gel ID Reference Chart** on pages 24 and 25.

**Note:** dark gray highlight on table entries signifies changes since prior revision.

## Lost DMX Signal

When in CCT&HSI or CCT&RGBW mode if DMX is lost the fixture will remain "held" in this mode until DMX is restored or the power switch is cycled.

**CCT Mode**

Gemini Set to Vers 1 or Vers 2 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-255	0-100	<b>CCT (2700K-10000K)</b>	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 4-8 8-47 47-57 47-96 96-100	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green No OffSet (0 Green) +1 to +99 Green +100 Green	
Channel 4			<b>Reserved</b>	
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	0 < Val < 42
Channel 6	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)

## HSI Mode

Gemini Set to Vers 1 or Vers 2 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-255	0-100	<b>HUE</b> 0 to 359 Degrees	
Channel 3	0-255	0-100	<b>Saturation</b> 0 to Full Saturation	
Channel 4			<b>Reserved</b>	
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	43 < Val < 85
Channel 6	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>Dmx Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)

**GEL Mode**

Gemini Set to Vers 1 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-127 128-255	0-50 50-100	<b>CCT (2700K or 6000K)</b> Tungsten Source Daylight Source	
Channel 3	0-25 26-51 52-76 77-102 103-127 128-153 154-178 179-204 205-229 230-255	0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100	<b>Gel ID 1's Digit</b> (See V1 GEL ID Chart) 0 1 2 3 4 5 6 7 8 9	GelID#= _0 GelID#= _1 GelID#= _2 GelID#= _3 GelID#= _4 GelID#= _5 GelID#= _6 GelID#= _7 GelID#= _8 GelID#= _9
Channel 4	0-25 26-51 52-76 77-102 103-127 128-153 154-178 179-204 205-229 230-255	0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100	<b>Gel ID 10's Digit</b> (See V1 GEL ID Chart) 0 1 2 3 4 5 6 7 8 9	GelID#=0_ GelID#= 1_ GelID#= 2_ GelID#= 3_ GelID#= 4_ GelID#= 5_ GelID#= 6_ GelID#= 7_ GelID#= 8_ GelID#= 9_
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	86 < Val < 127
Channel 6	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)

**GEL Mode**

Gemini Set to Vers 2 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-127 128-255	0-50 50-100	<b>CCT (2700K or 6000K)</b> Tungsten Source Daylight Source	
Channel 3	0-127 128-255	0-50 50-100	<b>Manufacturer</b> R Type Gels L Type Gels	
Channel 4	0-50 51-101 102-152 153-203 204-255	0-20 21-39 40-60 61-80 81-100	<b>Category</b> 1 2 3 4 5	R and L Clr Correction R 4000 Series and L Color Filters R2000 and L600 Series R CINE and L Cosmetic L700 Series
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	86 < Val < 127
Channel 6	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
Channel 7	0-255	0-100	Gel Select (See V2 Gel Detail Chart)	

**RGBW Mode**

Gemini Set to Vers 1 or Vers 2 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-255	0-100	<b>CCT (2700K-6000K)</b>	Gemini 2x1: Max = 6000K Gemini 1x1: Max = 6000K
Channel 3	0-255	0-100	<b>White Intensity</b>	
Channel 4	0-255	0-100	<b>Red Intensity</b>	
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	128 < Val < 170
Channel 6	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>Dmx Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
Channel 7	0-255	0-100	<b>Green Intensity</b>	
Channel 8	0-255	0-100	<b>Blue Intensity</b>	

**EFFECTS Mode**

Gemini Set to Vers 1 or Vers 2 and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-15	0-6	<b>Effects</b>	
	16-31	6-12	Emergency	
	32-47	12-19	Fire	
	48-63	19-25	Fireworks	
	64-79	25-31	HUE Burst	
	80-95	31-37	Lite-ning	
	96-111	37-43	Paparazzi	
	112-127	44-50	Party Lites	
	128-143	50-56	Pulsing	
	144-159	57-63	Squares	
	160-171	63-69	Strobe	
	172-255	70-100	TV/Monitor	
			Reserved	
Channel 3	0-255	0-100	<b>DMX EFFECTS PARAMETER 1</b> (See Dmx Effects Parm below)	
Channel 4	0-255	0-100	<b>DMX EFFECTS PARAMETER 2</b> (See Dmx Effects Parm below)	
Channel 5	0-42	0-16	<b>Mode</b>	171 < Val < 212
	43-85	17-33	CCT	
	86-127	34-50	HSI	
	128-170	50-66	GEL	
	171-212	67-83	RGBW	
	213-255	83-100	EFFECTS (Loop Mode) PRESETS TRIGGER MODE	
Channel 6	0-63	0-25	<b>DMX Fan Control</b>	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
	64-127	25-50	Fan Auto (Fan On with Full Power)	
	128-191	50-75	Fan Delayed (Fan On at Hi Temp)	
	192-255	75-100	Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	
Channel 7	0-255	0-100	<b>DMX EFFECTS PARAMETER 3</b> (See Dmx Effects Parm below)	
Channel 8	0-255	0-100	<b>DMX EFFECTS PARAMETER 4</b> (See Dmx Effects Parm below)	
Channel 9	0-255	0-100	<b>DMX EFFECTS PARAMETER 5</b> (See Dmx Effects Parm below)	

## Presets Trigger Mode

Gemini Set to Vers 1 or Vers 2 and 8 Bit Mode

Bump "Base Ch+2" Data from 0 to 128+ to Trigger

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b> (if changed after preset is triggered)	Preset Dim used unless Board Dimmer changes
Channel 2	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	<b>PRESET SELECT</b> Preset # 1 Preset # 2 Preset # 3 Preset # 4 Preset # 5 Preset # 6	Select the Preset # to be triggered
Channel 3	0-10 11-127 128-255	0-4 4-50 51-100	<b>Trigger the Preset</b> Preset Trigger Armed No Action Preset Triggered	Bump from 0 to 128+ to trigger the preset that is selected by (Base Ch+1) and (Base Ch+3)
Channel 4	0-127 128-191 192-255	0-50 51-75 176-100	<b>FACTORY / USER TYPE SELECT</b> Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset
Channel 5	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	213 < Val < 255

## CCT & HSI Mode Fixed

Gemini Set to "CCT&HSI" Mode and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-255	0-100	<b>CCT (2700K-MAX)</b>	Gemini 2x1 Selectable Max: 10000K Gemini 1x1: Max= 10000K
Channel 3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 4-8 8-47 47-57 47-96 96-100	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green No OffSet (0 Green) +1 to +99 Green +100 Green	
Channel 4	0-255	0-100	<b>Cross-Fade (White to HSI)</b>	
Channel 5	0-255	0-100	<b>HUE</b> 0 to 359 Degrees	
Channel 6	0-255	0-100	<b>Saturation</b> 0 to Full Saturation	
Channel 7	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
Channel 8			<b>Reserved</b>	
Channel 9			<b>Reserved</b>	
Channel 10			<b>Reserved</b>	

**CCT & RGBW Mode Fixed**

Gemini Set to "CCT&amp;RGBW" Mode and 8 Bit Mode

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 2	0-255	0-100	<b>CCT (2700K-10000K)</b>	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 3	0-10	0-4	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green No OffSet (0 Green) +1 to +99 Green +100 Green	
	11-20	4-8		
	21-119	8-47		
	120-145	47-57		
	146-244	47-96		
	245-255	96-100		
Channel 4	0-255	0-100	<b>Cross-Fade (White to RGB)</b>	
Channel 5	0-255	0-100	<b>Red Intensity</b>	
Channel 6	0-255	0-100	<b>Green Intensity</b>	
Channel 7	0-255	0-100	<b>Blue Intensity</b>	
Channel 8	0-255	0-100	<b>White Intensity</b>	
Channel 9	0-63	0-25	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
	64-127	25-50		
	128-191	50-75		
	192-255	75-100		
Channel 10			<b>Reserved</b>	
Channel 11			<b>Reserved</b>	
Channel 12			<b>Reserved</b>	

**CCT Mode**

Gemini Set to Vers 1 or Vers 2 and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3	Channel 4	0-65535	0-100	<b>CCT (2700K-10000K)</b>	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 5	Channel 6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 46-61 61-92 92-100	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green NO OffSet (0 Green) +1 to +99 Green +100 Green	
Channel 7		0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	0 < Val < 42
Channel 8		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)

## HSI Mode

Gemini Set to Vers 1 or Vers 2 and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3	Channel 4	0-65535	0-100	<b>HUE</b> 0 to 360 Degrees	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 5	Channel 6	0-65535	0-100	<b>Saturation</b> 0 to Full Saturation	
Channel 7		0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	0 < Val < 42
Channel 8		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)

**GEL Mode**

Gemini Set to Vers 1 and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3		0-127 128-255	0-50 50-100	<b>CCT (2700K or 6000K)</b> Tungsten Source Daylight Source	
Channel 4				<b>Reserved</b>	
Channel 5				<b>Gel ID 1's Digit (See GEL ID Chart)</b>	
		0-25	0-10	0	GelID#=_0
		26-51	10-20	1	GelID#=_1
		52-76	20-30	2	GelID#=_2
		77-102	30-40	3	GelID#=_3
		103-127	40-50	4	GelID#=_4
		128-153	50-60	5	GelID#=_5
		154-178	60-70	6	GelID#=_6
		179-204	70-80	7	GelID#=_7
		205-229	80-90	8	GelID#=_8
		230-255	90-100	9	GELID#=_9
Channel 6				<b>Gel ID 10's Digit (See GEL ID Chart)</b>	
		0-25	0-10	0	GelID#= 0_
		26-51	10-20	1	GelID#= 1_
		52-76	20-30	2	GelID#= 2_
		77-102	30-40	3	GelID#= 3_
		103-127	40-50	4	GelID#= 4_
		128-153	50-60	5	GelID#= 5_
		154-178	60-70	6	GelID#= 6_
		179-204	70-80	7	GelID#= 7_
		205-229	80-90	8	GelID#= 8_
		230-255	90-100	9	GELID#= 9_
Channel 7				<b>Mode</b>	
		0-42	0-16	CCT	
		43-85	17-33	HSI	
		86-127	34-50	GEL	
		128-170	50-66	RGBW	
		171-212	67-83	EFFECTS (Loop Mode)	
		213-255	83-100	PRESETS TRIGGER MODE	86 < Val < 127
Channel 8				<b>DMX Fan Control</b>	
		0-63	0-25	Fan Auto (Fan On with Full Power)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
		64-127	25-50	Fan Delayed (Fan On at Hi Temp)	
		128-191	50-75	Fan Max (Maximum Speed Fan)	
		192-255	75-100	Fan Off (Power reduced by 50%)	

## GEL Mode (Gemini Set to Vers 2 and 16 Bit Mode)

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3		0-127 128-255	0-50 50-100	<b>CCT (2700K or 6000K)</b> Tungsten Source Daylight Source	
Channel 4		0-127 128-255		<b>MANUFACTURER</b> R Type Gels L Type Gels	
Channel 5		0-50 51-101 102-152 153-203 204-255	0-20 21-39 40-60 61-80 81-100	<b>Category</b> 1 2 3 4 5	R and L Clr Correction R 4000 Series and L Color Filters R2000 and L600 Series R CINE and L Cosmetic L700 Series
Channel 6		0-255	0-100	<b>Gel Select</b> (See V2 Gel Detail Chart)	
Channel 7		0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	86 < Val < 127
Channel 8		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX FanControl Option in Gemini Menu or RDM)

**RGBW Mode**

Gemini Set to Vers 1 or Vers 2 and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3	Channel 4	0-65535	0-100	<b>CCT (2700K-6000K)</b>	Gemini 2x1: Max = 6000K Gemini 1x1: Max = 6000K
Channel 5	Channel 6	0-65535	0-100	<b>White Intensity</b>	
Channel 7		0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	128 < Val < 170
Channel 8		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>Fan</b> Fan Auto (Fan On with Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
Channel 9	Channel 10	0-65535	0-100	<b>Red Intensity</b>	
Channel 11	Channel 12	0-65535	0-100	<b>Green Intensity</b>	
Channel 13	Channel 14	0-65535	0-100	<b>Blue Intensity</b>	

**EFFECTS Mode**

Gemini Set to Vers 1 or Vers 2 and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3		0-15	0-6	<b>EFFECTS</b>	
		16-31	6-12	Emergency	
		32-47	12-19	Fire	
		48-63	19-25	Fireworks	
		64-79	25-31	HUE Burst	
		80-95	31-37	Lite-ning	
		96-111	37-43	Paparazzi	
		112-127	44-50	Party Lites	
		128-143	50-56	Pulsing	
		144-159	57-63	Squares	
		160-171	63-69	Strobe	
		172-255	70-100	TV/Monitor	
				Reserved	
Channel 4	Channel 5	0-65535	0-100	<b>DMX EFFECTS PARAMETER 1</b> (See Dmx Effects Parmes below)	
Channel 6				<b>Reserved</b>	
Channel 7		0-42	0-16	<b>Mode</b>	171 < Val < 212
		43-85	17-33	CCT	
		86-127	34-50	HSI	
		128-170	50-66	GEL	
		171-212	67-83	RGBW	
		213-255	83-100	EFFECTS (Loop Mode)	
Channel 8		0-63	0-25	<b>DMX Fan Control</b>	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
		64-127	25-50	Fan Auto (Fan On with Full Power)	
		128-191	50-75	Fan Delayed (Fan On at Hi Temp)	
		192-255	75-100	Fan Max (Maximum Speed Fan)	
Channel 9	Channel 10	0-65535	0-100	Fan Off (Power reduced by 50%)	
Channel 11	Channel 12	0-65535	0-100	<b>DMX EFFECTS PARAMETER 2</b> (See Dmx Effects Parmes below)	
Channel 13	Channel 14	0-65535	0-100	<b>DMX EFFECTS PARAMETER 3</b> (See Dmx Effects Parmes below)	
Channel 15	Channel 16	0-65535	0-100	<b>DMX EFFECTS PARAMETER 4</b> (See Dmx Effects Parmes below)	
				<b>DMX EFFECTS PARAMETER 5</b> (See Dmx Effects Parmes below)	

## Preset Trigger Mode

Gemini Set to Vers 1 or Vers 2 and 16 Bit Mode

Bump "Base Ch+2" Data from 0 to 128+ to Trigger

CHANNEL	VALUE	%	FUNCTION	NOTES
Channel 1	0-255	0-100	<b>Dimmer</b> (if changed after preset is triggered)	Preset Dim used unless Board Dimmer changes
Channel 2	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	<b>PRESET SELECT</b> Preset # 1 Preset # 2 Preset # 3 Preset # 4 Preset # 5 Preset # 6	Select the Preset # to be triggered
Channel 3	0-10 11-127 128-255	0-4 4-50 51-100	<b>Trigger the Preset</b> Preset Trigger Armed No Action Preset Triggered	Bump from 0 to 128+ to trigger the preset that is selected by (Base Ch+1) and (Base Ch+3)
Channel 4	0-127 128-191 192-255	0-50 51-75 176-100	<b>FACTORY / USER TYPE SELECT</b> Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset
Channel 5			<b>Reserved</b>	
Channel 6			<b>Reserved</b>	
Channel 7	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	<b>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	213 < Val < 255

**CCT & HSI Mode Fixed**

Gemini Set to CCT&amp;HSI Mode and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3	Channel 4	0-65535	0-100	<b>CCT (2700K-10000K)</b>	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 5	Channel 6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 46-61 61-92 92-100	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green NO OffSet (0 Green) +1 to +99 Green +100 Green	
Channel 7	Channel 8	0-65535	0-100	<b>Cross-Fade (White to HSI)</b>	
Channel 9	Channel 10	0-65535	0-100	<b>HUE</b> 0 to 360 Degrees	
Channel 11	Channel 12	0-65535	0-100	<b>Saturation</b> 0 to Full Saturation	
Channel 13		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan) Control Option in Gemini Menu or RDM)
Channel 14				<b>Reserved</b>	
Channel 15				<b>Reserved</b>	
Channel 16				<b>Reserved</b>	

**CCT & RGBW Mode Fixed**

Gemini Set to CCT&amp;RGBW Mode and 16 Bit Mode

CHANNEL		VALUE	%	FUNCTION	NOTES
Upper	Lower				
Channel 1	Channel 2	0-65535	0-100	<b>Dimmer</b>	Base Chan= 1 to 497
Channel 3	Channel 4	0-65535	0-100	<b>CCT (2700K-10000K)</b>	Gemini 2x1: Max = 10000K Gemini 1x1: Max = 10000K
Channel 5	Channel 6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 46-61 61-92 92-100	<b>Green OffSet</b> NO OffSet (0 Green) -100 Green -99 to -1 Green NO OffSet (0 Green) +1 to +99 Green +100 Green	
Channel 7	Channel 8	0-65535	0-100	<b>Cross-Fade (White to RGB)</b>	
Channel 9	Channel 10	0-65535	0-100	<b>Red Intensity</b>	
Channel 11	Channel 12	0-65535	0-100	<b>Green Intensity</b>	
Channel 13	Channel 14	0-65535	0-100	<b>Blue Intensity</b>	
Channel 15	Channel 16	0-65535	0-100	<b>White Intensity</b>	
Channel 17		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	<b>DMX Fan Control</b> Fan Auto (Fan On with Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Maximum Speed Fan) Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu or RDM)
Channel 18				<b>Reserved</b>	
Channel 19				<b>Reserved</b>	
Channel 20				<b>Reserved</b>	

## DMX Effects Parameters

Effects Run In Looped Mode

EFFECT	PARM1	PARM2	PARM3
<b>EMERGENCY!</b>	<b># of Pulses</b> 0-20% (0-50) = 1 21-40% (51-101) = 2 41-60% (102-153) = 3 61-80% (154-203) = 4 81-100% (204-255) = 5	<b>Colors</b> 0-13% (0-36) = Blue 14-28% (37-73) = Red 29-42% (74-109) = Amber 43-56% (110-145) = Blue+Red 57-71% (146-181) = Blue+Amber 72-85% (182-217) = Blue+White 86-100% (218-255) = Blue+Red+WH	<b>Reserved</b>
<b>FIRE</b>	<b>HUE</b> 0%(0) = 0 Deg 100%(255) = 359 Deg	<b>SATuration</b> 0%(0) = No SAT 100%(255) = Full SAT	<b>Rate</b> 0%(0) = Slow 100%(255) = Fast
<b>FIREWORKS</b>	<b>Frequency</b> 0%(0) = Sparse 100%(255) = Frequent	<b>Colors</b> 0-20% (0-50) = RWB 21-40% (51-101) = RGB 41-60% (102-153) = 6 CLR 61-80% (154-203) = 12 CLR 81-100% (204-255) = Random	<b>Decay</b> 0-33%(0-85) = Short 34-66%(86-170) = Med 67-100%(171-255) = Long
<b>HUE BURST</b>	<b>HUE</b> 0%(0) = 0 Deg 100%(255) = 359 Deg	<b>SATuration</b> 0%(0) = No SAT 100%(255) = Full SAT	<b>Gap Between Pulses</b> 0%(0) = 40mSec 100%(255) = 400mSec
<b>Lite-ning</b>	<b>Rate</b> 0%(0) = Slowest 100%(255) = Fastest	<b>CCT</b> 0%(0) = 2700K 100%(255) = 6000K	<b>Reserved</b>
<b>Paparazzi</b>	<b>Frequency</b> 0%(0) = Sparse 100%(0) = Frequent	<b>CCT</b> 0%(0) = 2700K 100%(255) = 6000K	<b>Flash Type</b> 0-24% = 50mSec 25-49% = 100mSec 50-74% = 150mSec 75-100% Bulb
<b>Party Lites</b>	<b>Rate</b> 0%(0) = Slowest 100%(255) = Fastest	<b>Type</b> 0-33%(0-85) = Pulsing 34-66%(86-170) = Chase 67-100%(171-255) = Blend	<b>Colors</b> 0-19%(0-50) = Red, WH, Blue 20-39%(51-101) = Red, Green, Blue 40-60%(102-153) = 6 Color 61-79%(154-203) = 12 Color 80-100%(204-255) = Random
<b>Pulsing</b>	<b>HUE</b> 0%(0) = 0 Deg 100%(255) = 359 Deg	<b>SATuration</b> 0%(0) = No SAT 100%(255) = Full SAT	<b>Ramp Time</b> 0%(0) = Fastest Ramp U/D 100%(255) = Slowest Ramp U/D
<b>Squares</b>	<b>HUE</b> 0%(0) = 0 Deg 100%(255) = 359 Deg	<b>SATuration</b> 0%(0) = No SAT 100%(255) = Full SAT	<b>On Time</b> 0%(0) = Fastest Ramp U/D 100%(255) = Slowest Ramp U/D
<b>Strobe</b>	<b>HUE</b> 0%(0) = 0 Deg 100%(255) = 359 Deg	<b>SATuration</b> 0%(0) = No SAT 100%(255) = Full SAT	<b>Freq</b> 0%(0) = 30 RPM 100%(255) = 1000 RPM
<b>TV / Monitor</b>	<b>Rate</b> 0%(0) = Slowest 100%(255) = Fastest	<b>Motion</b> 0%(0) = Least Motion 100%(255) = Most Motion	<b>RANGE</b> 0-33%(0-85) = Small 34-66%(86-170) = Medium 67-100%(171-255) = Large

## DMX Effects Parameters

Effects Run In Looped Mode

EFFECT	PARM4	PARM5	NOTES
<b>EMERGENCY!</b>	<b>Reserved</b>	<b>Reserved</b>	
<b>FIRE</b>	<b>Depth</b> 0%(0)=Shallow 100%(255)=Deep	<b>Color Mix</b> 0-24%(0-63) = 1 Color 25-49%(64-127)= Narrow 50-74%(128-191) = Medium 75-100%(192-255) = Wide	
<b>FIREWORKS</b>	<b>Reserved</b>	<b>Reserved</b>	
<b>HUE BURST</b>	<b>Rest for Loop</b> 0%(0) = 50mSec 100%(255) = 5000mSec	<b>Pulse Qty</b> 0%(0) = 1 100%(255) = 16	Set to Loop Mode from Fixture Prior to using via DMX
<b>Lite-ning</b>	<b>Reserved</b>	<b>Reserved</b>	
<b>Paparazzi</b>	<b>Reserved</b>	<b>Reserved</b>	
<b>Party Lites</b>	<b>Reserved</b>	<b>Reserved</b>	
<b>Pulsing</b>	<b>On Time</b> 0%(0) = 25mSec 100%(255) = 1000mSec	<b>Rest for Loop</b> 0%(0) = 25mSec 100%(255) = 1000mSec	
<b>Squares</b>	<b>Off Time</b> 0%(0) = 25mSec 100%(255) = 5000mSec	<b>Bias</b> 0%(0) = 0% Bias 100%(255) = 100% Bias	
<b>Strobe</b>	<b>Duty Cycle</b> 0%(0) = 0% Duty 100%(255) = 100% Duty	<b>Bias</b> 0%(0) = 0% Bias 100%(255) = 100% Bias	
<b>TV / Monitor</b>	<b>CCT</b> 0-33%(0-85) = Warm 34-66%(86-170) = Neutral 67-100%(171-255) Cool	Reserved	

## GEL ID Chart

DMX Vers 1

ID#	10's Digit	1's Digit	Gel ID	Gel Description
0	0	0	R01	Light Bastard Amber
1	0	1	R09	Pale Amber Gold
2	0	2	R16	Light Amber
3	0	3	R19	Fire
4	0	4	R20	Medium Amber
5	0	5	R24	Scarlet
6	0	6	R26	Light Red
7	0	7	R31	Salmon Pink
8	0	8	R33	No Color Pink
9	0	9	R36	Medium Pink
10	1	0	R40	Light Salmon
11	1	1	R42	Deep Salmon
12	1	2	R45	Rose
13	1	3	R54	Special Lavender
14	1	4	R57	Lavender
15	1	5	R60	No Color Blue
16	1	6	R63	Pale Blue
17	1	7	R65	Daylight Blue
18	1	8	R67	Light Sky Blue
19	1	9	R68	Parry Sky Blue
20	2	0	R70	Nile blue
21	2	1	R76	Light Green Blue
22	2	2	R77	Green Blue
23	3	3	R80	Primary Blue
24	2	4	R85	Deep Blue
25	2	5	R86	Pea Green
26	2	6	R89	Moss Green
27	2	7	R90	Dark Yellow Green

## GEL ID Chart

DMX Vers 1

ID#	10's Digit	1's Digit	Gel ID	Gel Description
28	2	8	R95	Medium Blue Green
29	2	9	R99	Chocolate
30	3	0	R355	Pale Violet
31	3	1	R3202	Full CTB
32	3	2	R3204	1/2 CTB
33	3	3	R3208	1/4 CTB
34	3	4	R3304	Tough PlusGreen
35	3	5	R3407	RoscoSun CTO
36	3	6	R3408	RoscoSun 1/2 CTO
37	3	7	R3409	RoscoSun 1/4 CTO
38	3	8	R4330	CalcColor 30 Cyan
39	3	9	R4360	CalcColor 60 Cyan
40	4	0	R4390	CalcColor 90 cyan
41	4	1	L71	Tokyo Blue
42	4	2	L103	Straw
43	4	3	L116	Medium Blue-Green
44	4	4	L147	Apricot
45	4	5	L713	J. Winter Blue
46*	4	6	RE213	White Flame Green
47*	4	7	RE730	Liberty Green
48*	4	8	R3150	Industrial Vapor
49*	4	9	R3152	Urban Vapor
50*	5	0	L650	Industry Sodium
51*	5	1	L651	HI Sodium
52*	5	2	L652	Urban Sodium
53*	5	3	L653	LO Sodium
54*	5	4	L713	Aurora Borealis Green

\* Gemini 2x1 Rev B2 FW and Later

\* Gemini 1x1 Reb A0 FW and Later

