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# Gemini DMX Function Reference

VERSION 3.1 - November, 2019

For use with:

- o Gemini 2x1 Soft Firmware Rev C1 and later



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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 (Original), Version: 2 (Extended Gels), Version: CCT & RGBW, Version: CCT & HSI
- DMX Channel: 1-497 Range
- DMX Resolution: 8/16-bit
- DMX Mode Control: Enable/Disable
- DMX CCT Range: 6000K/10000K
- Fan Control Settings
- Mode lock out

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*** document.

## Lost DMX Signal

Please note that if the DMX signal is lost while in 'CCT & HSI' mode or 'CCT & RGBW' mode, the fixture will revert to either HSI or RGBW mode respectively.

# CCT Mode

8-BIT				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	Dimmer	Base Chan: 1 to 497
Base Chan+1	0-255	0-100	CCT (2700K-MAX)	Gemini 2x1: Max= 6000K  Gemini 1x1: Max= 10000K
Base Chan+2	0-10 11-20 21-119 120-145 146-244 245-255	0-4 4-8 8-47 47-57 47-96 96-100	Green Offset NO Offset (0 Green) -100 Green -99 to -1 Green No Offset (0 Green) +1 to +99 Green +100 Green	
Base Chan+3			Reserved	
Base Chan+4	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	Mode CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	0 < Val < 42
Base Chan+5	0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	DMX Fan Control Fan Auto (Fan On - Full Power) Fan Delayed (Fan On at Hi Temp) Fan Max (Max. Speed Fan) Fan Off (Output reduced by 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or via RDM

16-BIT					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	Dimmer	Base Chan: 1 to 497
Base Ch+2	Base Ch+3	0-65535	0-100	CCT (2700K-Max)	Gemini 2x1: Max= 6000K  Gemini 1x1: Max= 10000K
Base Ch+4	Base Ch+5	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 46-61 61-92 92-100	Green OffSet NO OffSet (0 Green) -100 Green -99 to -1 Green NO OffSet (0 Green) +1 to +99 Green +100 Green	
Base Chan+6		0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 50-66 67-83 83-100	Mode CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	0 < Val < 42
Base Chan+7		0-63 64-127 128-191 192-255	0-25 25-50 50-75 75-100	DMX Fan Control 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

8-BIT				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+1	0-255	0-100	<b>HUE</b> 0 to 359 Degrees	
Base Chan+2	0-255	0-100	<b>Saturation</b> 0 to Full Saturation	
Base Chan+3			<b>Reserved</b>	
Base Chan+4	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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	43 < Val < 85
Base Chan+5	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM

16-BIT					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Ch+2	Base Ch+3	0-65535	0-100	<b>HUE</b> 0 to 359 Degrees	
Base Ch+4	Base Ch+5	0-65535	0-100	<b>Saturation</b> 0 to Full Saturation	
Base Chan+6		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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	43 < Val < 85
Base Chan+7		0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM

# GEL Mode V1

8-BIT				
Gemini Set to Version 1 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	Dimmer	Base Chan: 1 to 497
Base Chan+1	0-127 128-255	0-50 50-100	CCT (2700K-6000K) Tungsten Source Daylight Source	
Base Chan+2	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	Gel ID 1's Digit (See V1 GEL ID Chart) 0 1 2 3 4 5 6 7 8 9	GelID#=_ GelID#=_1 GelID#=_2 GelID#=_3 GelID#=_4 GelID#=_5 GelID#=_6 GelID#=_7 GelID#=_8 GELID#=_9
Base Chan+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	Gel ID 10's Digit (See V1 GEL ID Chart) 0 1 2 3 4 5 6 7 8 9	GelID#=_ GelID#=_1_ GelID#=_2_ GelID#=_3_ GelID#=_4_ GelID#=_5_ GelID#=_6_ GelID#=_7_ GelID#=_8_ GELID#=_9_

16-BIT					
Gemini Set to Version 1 and 16-Bit Mode					
Channel	Value	%	Function	Notes	
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	Dimmer	Base Chan: 1 to 497
Base Chan+2		0-127 128-255	0-50 50-100	CCT (2700K-6000K) Tungsten Source Daylight Source	
Base Chan+3				Reserved	
Base Chan+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	Gel ID 1's Digit (See V1 GEL ID Chart) 0 1 2 3 4 5 6 7 8 9	GelID#=_ GelID#=_1 GelID#=_2 GelID#=_3 GelID#=_4 GelID#=_5 GelID#=_6 GelID#=_7 GelID#=_8 GELID#=_9

8-BIT				
Gemini Set to Version 1 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan+4	0-42	0-16	<b>Mode</b>	86 < Val < 127
	43-85	17-33	CCT	
	86-127	34-50	HSI	
	128-170	51-66	GEL	
	171-212	67-83	RGBW	
	213-255	84-100	EFFECTS (Loop Mode) PRESETS TRIGGER MODE	
Base Chan+5	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 (On Full)	
	128-191	50-75	Fan Delayed (On @ Hi Temp)	
	192-255	75-100	Fan Max (Max. Speed)	
			Fan Off (Output reduced 50%)	

16-BIT					
Gemini Set to Version 1 and 16-Bit Mode					
Channel	Value	%	Function	Notes	
Upper	Lower				
Base Chan+5			<b>Gel ID 10's Digit</b> (See V1 GEL ID Chart)		
		0-25	0-10	0	GelID#= _
		26-51	11-20	1	GelID#= 1_
		52-76	21-30	2	GelID#= 2_
		77-102	31-40	3	GelID#= 3_
		103-127	41-50	4	GelID#= 4_
		128-153	51-60	5	GelID#= 5_
		154-178	61-70	6	GelID#= 6_
		179-204	71-80	7	GelID#= 7_
		205-229	81-90	8	GelID#= 8_
		230-255	91-100	9	GELID#= 9_
Base Chan+6	0-42	0-16	<b>Mode</b>	86 < Val < 127	
	43-85	17-33	CCT		
	86-127	34-50	HSI		
	128-170	51-66	GEL		
	171-212	67-83	RGBW		
	213-255	84-100	EFFECTS (Loop Mode)		
			PRESETS TRIGGER MODE		
Base Chan+7	0-63	0-25	<b>DMX Fan Control</b>	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM	
	64-127	26-50	Fan Auto (On Full)		
	128-191	51-75	Fan Delayed (On @ Hi Temp)		
	192-255	76-100	Fan Max (Max. Speed)		
			Fan Off (Output reduced 50%)		

# GEL Mode V2

8-BIT				
Gemini Set to Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+1	0-127 128-255	0-50 51-100	<b>CCT (2700K-6000K)</b> Tungsten Source Daylight Source	
Base Chan+2	0-127 128-255	0-50 51-100	<b>MANUFACTURER</b> R Type Gels L Type Gels	
Base Chan+3	0-50 51-101 102-152 153-203 204-255	0-20 21-39 40-60 61-80 81-100	<b>Category</b> 1 - R and L Color Correction 2 - R and L Color Filters 3 - R4000 and L600 Series 4 - R 2000 and L Cosmetic 5 - L700 Series	
Base Chan+4	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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	86 < Val < 127
Base Chan+5	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM
Base Chan+6	0-255	0-100	<b>Gel Select</b> (See V2 Gel Detail Chart)	

16-BIT					
Gemini Set to Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+2		0-127 128-255	0-50 51-100	<b>CCT (2700K-6000K)</b> Tungsten Source Daylight Source	
Base Chan+3		0-127 128-255	0-50 51-100	<b>MANUFACTURER</b> R Type Gels L Type Gels	
Base Chan+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 - R and L Color Correction 2 - R and L Color Filters 3 - R4000 and L600 Series 4 - R 2000 and L Cosmetic 5 - L700 Series	
Base Chan+5		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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	86 < Val < 127
Base Chan+6		0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM
Base Chan+7		0-255	0-100	<b>Gel Select</b> (See V2 Gel Detail Chart)	



## RGBW Mode

8-BIT				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+1	0-255	0-100	<b>CCT (2700K-MAX)</b>	Gemini 2x1: Max= 6000K Gemini 1x1: Max= 10000K
Base Chan+2	0-255	0-100	<b>White Intensity</b>	
Base Chan+3	0-255	0-100	<b>Red Intensity</b>	
Base Chan+4	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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	128 < Val < 170
Base Chan+5	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM
Base Chan+6	0-255	0-100	<b>Green Intensity</b>	
Base Chan+7	0-255	0-100	<b>Blue Intensity</b>	

16-BIT					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Ch+2	Base Ch+3	0-65535	0-100	<b>CCT (2700K-6000K)</b> Tungsten Source Daylight Source	
Base Ch+4	Base Ch+5	0-65535	0-100	<b>White Intensity</b>	
Base Chan+6		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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	128 < Val < 170
Base Chan+7		0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM
Base Ch+8	Base Ch+9	0-65535	0-100	<b>Red Intensity</b>	
Base Ch+10	Base Ch+11	0-65535	0-100	<b>Green Intensity</b>	
Base Ch+12	Base Ch+13	0-65535	0-100	<b>Blue Intensity</b>	

# EFFECTS Mode

8-BIT				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+1	0-15 16-31 32-47 48-63 64-79 80-95 96-111 112-127 128-143 144-159 160-171 172-255	0-6 6-12 12-19 19-25 25-31 31-37 37-43 44-50 50-56 57-63 63-69 70-100	<b>EFFECTS</b> Emergency! Fire Fireworks HUE Burst Lite-ning Paparazzi Party Lites Pulsing Squares Strobe TV/Monitor Reserved	
Base Chan+2	0-255	0-100	<b>DMX EFFECTS PARAMETER 1</b>	See <b>DMX Effects Parameters</b> below
Base Chan+3	0-255	0-100	<b>DMX EFFECTS PARAMETER 2</b>	See <b>DMX Effects Parameters</b> below
Base Chan+4	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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	171 < Val < 212
Base Chan+5	0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM

16-BIT					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	<b>Dimmer</b>	Base Chan: 1 to 497
Base Chan+2		0-15 16-31 32-47 48-63 64-79 80-95 96-111 112-127 128-143 144-159 160-171 172-255	0-6 6-12 13-19 20-25 26-31 32-37 38-43 44-50 51-56 57-63 64-69 70-100	<b>EFFECTS</b> Emergency! Fire Fireworks HUE Burst Lite-ning Paparazzi Party Lites Pulsing Squares Strobe TV/Monitor Reserved	
Base Ch+3	Base Ch+4	0-65535	0-100	<b>DMX EFFECTS PARAMETER 1</b>	See <b>DMX Effects Parameters</b> below
Base Chan+5				<b>Reserved</b>	
Base Chan+6		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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	171 < Val < 212
Base Chan+7		0-63 64-127 128-191 192-255	0-25 26-50 51-75 76-100	<b>DMX Fan Control</b> Fan Auto (On Full) Fan Delayed (On @ Hi Temp) Fan Max (Max. Speed) Fan Off (Output reduced 50%)	Enable/Disable DMX Fan Control Option in Gemini Menu or RDM

<b>8-BIT</b>				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan+6	0-255	0-100	DMX EFFECTS PARAMETER 3	See DMX Effects Parameters below
Base Chan+7	0-255	0-100	DMX EFFECTS PARAMETER 4	See DMX Effects Parameters below
Base Chan+8	0-255	0-100	DMX EFFECTS PARAMETER 5	See DMX Effects Parameters below

<b>16-BIT</b>					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch+8	Base Ch+9	0-65535	0-100	DMX EFFECTS PARAMETER 2	See DMX Effects Parameters below
Base Ch+10	Base Ch+11	0-65535	0-100	DMX EFFECTS PARAMETER 3	See DMX Effects Parameters below
Base Ch+12	Base Ch+13	0-65535	0-100	DMX EFFECTS PARAMETER 4	See DMX Effects Parameters below
Base Ch+14	Base Ch+15	0-65535	0-100	DMX EFFECTS PARAMETER 5	See DMX Effects Parameters below

## Presets Trigger Mode

8-BIT				
Gemini Set to Version 1 or Version 2 and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	<b>Dimmer</b> (if changed after preset is triggered)	Preset Dim used unless Board Dimmer changes
Base Chan+1	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
Base Chan+2	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)
Base Chan+3	0-127 128-191 192-255	0-50 51-75 76-100	<b>FACTORY / USER SELECT</b> Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset Bank
Base Chan+4	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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	213 < Val < 255

16-BIT					
Gemini Set to Version 1 or Version 2 and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Chan		0-255	0-100	<b>Dimmer (if changed after preset is triggered)</b>	Preset Dim used unless Board Dimmer changes
Base Chan+1		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
Base Chan+2		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)
Base Chan+3		0-127 128-191 192-255	0-50 51-75 76-100	<b>FACTORY / USER SELECT</b> Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset Bank
Base Chan+4				<b>Reserved</b>	
Base Chan+5				<b>Reserved</b>	
Base Chan+6		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>Mode</b> CCT HSI GEL RGBW EFFECTS (Loop Mode) PRESETS TRIGGER MODE	213 < Val < 255

## CCT & HSI Mode Fixed

8-BIT				
Gemini Set to CCT&HSI and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	Dimmer	Base Chan: 1 to 497
Base Chan+1	0-255	0-100	CCT (2700K-10000K)	
Base Chan+2	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	Green Offset No Offset (0 Green) -100 Green -99 to -1 Green No Offset (0 Green) +1 to +99 Green +100 Green	
Base Chan+3	0-255	0-100	Cross-Fade (White to RGB)	
Base Chan+4	0-255	0-100	HUE 0 to 359 Degrees	
Base Chan+5	0-255	0-100	Saturation 0 to Full Saturation	
Base Chan+6			N/A	
Base Chan+7			N/A	
Base Chan+8			N/A	
Base Chan+9			N/A	

16-BIT					
Gemini Set to CCT&HSI and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	Dimmer	Base Chan: 1 to 497
Base Ch+2	Base Ch+3	0-65535	0-100	CCT (2700K-10000K)	
Base Ch+4	Base Ch+5	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 47-61 62-92 93-100	Green Offset No Offset (0 Green) -100 Green -99 to -1 Green No Offset (0 Green) +1 to +99 Green +100 Green	
Base Ch+6	Base Ch+7	0-65535	0-100	Cross-Fade (White to RGB)	
Base Ch+8	Base Ch+9	0-65535	0-100	HUE 0 to 359 Degrees	
Base Ch+10	Base Ch+11	0-65535	0-100	Saturation 0 to Full Saturation	
Base Ch+12	Base Ch+13			N/A	
Base Ch+14	Base Ch+15			N/A	

## CCT & RGBW Mode Fixed

8-BIT				
Gemini Set to CCT&RGB and 8-Bit Mode				
Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	Dimmer	Base Chan: 1 to 497
Base Chan+1	0-255	0-100	CCT (2700K-10000K)	
Base Chan+2	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	Green Offset No Offset (0 Green) -100 Green -99 to -1 Green No Offset (0 Green) +1 to +99 Green +100 Green	
Base Chan+3	0-255	0-100	Cross-Fade (White to RGB)	
Base Chan+4	0-255	0-100	Red Intensity	
Base Chan+5	0-255	0-100	Green Intensity	
Base Chan+6	0-255	0-100	Blue Intensity	
Base Chan+7	0-255	0-100	White Intensity	
Base Chan+8			N/A	
Base Chan+9			N/A	
Base Chan+10			N/A	
Base Chan+11			N/A	

16-BIT					
Gemini Set to CCT&RGB and 16-Bit Mode					
Channel		Value	%	Function	Notes
Upper	Lower				
Base Ch	Base Ch+1	0-65535	0-100	Dimmer	Base Chan: 1 to 497
Base Ch+2	Base Ch+3	0-65535	0-100	CCT (2700K-10000K)	
Base Ch+4	Base Ch+5	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 47-61 62-92 93-100	Green Offset No Offset (0 Green) -100 Green -99 to -1 Green No Offset (0 Green) +1 to +99 Green +100 Green	
Base Ch+6	Base Ch+7	0-65535	0-100	Cross-Fade to Color	
Base Ch+8	Base Ch+9	0-65535	0-100	Red Intensity	
Base Ch+10	Base Ch+11	0-65535	0-100	Green Intensity	
Base Ch+12	Base Ch+13	0-65535	0-100	Blue Intensity	
Base Ch+14	Base Ch+15	0-65535	0-100	White Intensity	
Base Ch+16	Base Ch+17			N/A	
Base Ch+18	Base Ch+19			N/A	

## DMX Effects Parameters

Effects run in Looped mode. See the *Gemini Effects Guide* for more detail on each parameter.

EFFECT	PARAMETER 1	PARAMETER 2	PARAMETER 3	PARAMETER 4	PARAMETER 5
<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+White	<b>Reserved</b>	<b>Reserved</b>	<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>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>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>Reserved</b>	<b>Reserved</b>
<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>Rest for Loop</b> 0% (0) = 50mSec 100% (255) = 5000mSec	<b>Pulse Qty</b> 0% (0) = 1 100% (255) = 16
<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>Reserved</b>	<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% (0-63) = 50mSec 25-49% (64-127) = 100mSec 50-74% (128-191) = 150mSec 75-100% (192-255) = Bulb	<b>Reserved</b>	<b>Reserved</b>

<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>Reserved</b>	<b>Reserved</b>
<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>On Time</b> 0% (0) = 25mSec 100% (255) = 5000mSec	<b>Rest for Loop</b> 0% (0) = 25mSec 100% (255) = 5000mSec
<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>Off Time</b> 0% (0) = 25mSec 100% (255) = 5000mSec	<b>Bias</b> 0% (0) = 0% Bias 100% (255) = 100% Bias
<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>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>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	<b>CCT</b> 0-33% (0-85) = Warm 34-66% (86-170) = Neutral 67-100% (171-255) = Cool	<b>Reserved</b>