

GEMINI DMX FUNCTION CHART V2.8

For use with Gemini FW Rev B0 and later. March 7, 2018

CCT Mode (Gemini Set to 8 Bit Mode)

<u>Channel</u>	<u>Value</u>	<u>%</u>	<u>Function</u>	<u>Notes</u>
Base Chan	0-255	0-100	Dimmer	Base Chan= 1 to 497
Base Chan+1	0-255	0-100	CCT (2700K-6000K)	
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	0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)

HSI Mode (Gemini Set to 8 Bit Mode)

<u>Channel</u>	<u>Value</u>	<u>%</u>	<u>Function</u>	<u>Notes</u>
Base Chan	0-255	0-100	Dimmer	Base Chan= 1 to 497
Base Chan+1	0-255	0-100	HUE 0 to 359 Degrees	
Base Chan+2	0-255	0-100	Saturation 0 to Full Saturation	
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	43 < Val < 85
Base Chan+5	0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power Reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)

GEL Mode (Gemini Set to 8 Bit Mode)

<u>Channel</u>	<u>Value</u>	<u>%</u>	<u>Function</u>	<u>Notes</u>		
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 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 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+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	86 < Val < 127		
Base Chan+5	0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power Reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)		

RGBW Mode (Gemini Set to 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-6000K)			
Base Chan+2	0-255	0-100	White Intens			
Base Chan+3			Red Intens			
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	128 < Val < 170		
Base Chan+5			Fan	(Enable/Disable DMX Fan		
Base Chan+6	0-255	0-100	Green Intens			
Base Chan+7	0-255	0-100	Blue Intens			

EFFECTS Mode (Gemini Set to 8 Bit Mode)

<u>Channel</u>	<u>Value</u>	<u>%</u>	<u>Function</u>	<u>Notes</u>		
Base Chan	0-255	0-100	Dimmer	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	EFFECTS Emergency Fire Fireworks HUE Burst Lite-ning Paparazzi Party Lites Pulsing Squares Strobe TV/Monitor Reserved			
Base Chan+2	0-255	0-100	DMX EFFECTS PARAMETER 1 (See Dmx Effects Parm below)			
Base Chan+3	0-255	0-100	DMX EFFECTS PARAMETER 2 (See Dmx Effects Parm below)			
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	171 < Val < 212		
Base Chan+5	0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power Reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)		
Base Chan+6	0-255	0-100	DMX EFFECTS PARAMETER 3 (See Dmx Effects Parm below)			
Base Chan+7	0-255	0-100	DMX EFFECTS PARAMETER 4 (See Dmx Effects Parm below)			
Base Chan+8	0-255	0-100	DMX EFFECTS PARAMETER 5 (See Dmx Effects Parm below)			

Presets Trigger Mode (Gemini Set to 8 Bit Mode)					
(Bump "Base Ch+2" Data from 0 to 128+ to Trigger)					
<u>Channel</u>	<u>Value</u>	<u>%</u>	<u>Function</u>	<u>Notes</u>	
Base Chan	0-255	0-100	Dimmer (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	PRESET SELECT 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	Trigger the Preset 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 51-75 176-100	FACTORY / USER TYPE SELECT Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset	
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	213 < Val < 255	

Gel Mode (Gemini Set to 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				Gel ID 1's Digit (See GEL ID Chart)	
		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	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+5				Gel ID 10's Digit (See GEL ID Chart)	
		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	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+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	86 < Val < 127
Base Chan+7		0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power Reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)

RGBW Mode (Gemini Set to 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-6000K)	
Base Ch+4	Base Ch+5	0-65535	0-100	White Intensity	
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	128 < Val < 170
Base Chan+7		0-127 128-255	0-50 50-100	Fan Fan Auto Fan Off (Power Reduced by 50%)	(Enable/Disable DMX Fan Control Option in Gemini Menu)
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	

Preset Trigger Mode (Gemini Set to 16 Bit Mode)						
(Bump "Base Ch+2" Data from 0 to 128+ to Trigger)						
Base Chan	0-255	0-100	Dimmer (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	PRESET SELECT 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	Trigger the Preset 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 51-75 176-100	FACTORY / USER TYPE SELECT Preset Trigger Disabled Factory Preset Selected User Preset Selected	Select Factory or User Preset		
Base Chan+4			Reserved			
Base Chan+5			Reserved			
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	213 < Val < 255		

DMX Effects Parameters (8-bit) (Effects Run in Looped Mode)

EFFECT	PARM1	PARM2	PARM3	PARM4	PARM5
EMERGENCY!	# of Pulses 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	Colors 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	Reserved	Reserved	Reserved
FIRE	HUE 0%(0) = 0 Deg 100%(255) = 359 Deg	SATuration 0%(0) = No SAT 100%(255) = Full SAT	Rate 0%(0) = Slow 100%(255) = Fast	Depth 0%(0) = Shallow 100%(255) = Deep	Color Mix 0-24% (0-63) = 1 Color 25-49% (64-127) = Narrow 50-74% (128-191) = Medium 75-100% (192-255) = Wide
FIREWORKS	Frequency 0%(0) = Sparse 100%(255) = Frequent	Colors 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	Decay 0-33% (0-85) = Short 34-66% (86-170) = Med 67-100% (171-255) = Long	Reserved	Reserved
HUE BURST	HUE 0%(0) = 0 Deg 100%(255) = 359 Deg	SATuration 0%(0) = No SAT 100%(255) = Full SAT	Gap Between Pulses 0%(0) = 40mSec 100%(255) = 400mSec	Rest for Loop 0%(0) = 50mSec 100%(255) = 5000mSec	Pulse Qty 0%(0) = 1 100%(255) = 16
Lite-ning	Rate 0%(0) = Slowest 100%(255) = Fastest	CCT 0%(0) = 2700K 100%(255) = 6000K	Reserved	Reserved	Reserved
Paparazzi	Frequency 0%(0) = Sparse 100%(0) = Frequent	CCT 0%(0) = 2700K 100%(255) = 6000K	Flash Type 0-24% = 50mSec 25-49% = 100mSec 50-74% = 150mSec 75-100% Bulb	Reserved	Reserved
Party Lites	Rate 0%(0) = Slowest 100%(255) = Fastest	Type 0-33% (0-85) = Pulsing 34-66% (86-170) = Chase 67-100% (171-255) = Blend	Colors 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	Reserved	Reserved
Pulsing	HUE 0%(0) = 0 Deg 100%(255) = 359 Deg	SATuration 0%(0) = No SAT 100%(255) = Full SAT	Ramp Time 0%(0) = Fastest Ramp U/D 100%(255) = Slowest Ramp U/D	On Time 0%(0) = 25mSec 100%(255) = 5000mSec	Rest for Loop 0%(0) = 25mSec 100%(255) = 5000mSec
Squares	HUE 0%(0) = 0 Deg 100%(255) = 359 Deg	SATuration 0%(0) = No SAT 100%(255) = Full SAT	On Time 0%(0) = Fastest Ramp U/D 100%(255) = Slowest Ramp U/D	Off Time 0%(0) = 25mSec 100%(255) = 5000mSec	Bias 0%(0) = 0% Bias 100%(255) = 100% Bias

