

GEMINI DMX FUNCTION CHART Version 2.0

For use with Gemini Firmware Rev A7 and later. Jan 15, 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 499
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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved	
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 499
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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved	
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)

Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	Dimmer	Base Chan= 1 to 499
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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved	
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)

EFFECTS Mode (Gemini Set to 8 Bit Mode)

Channel	Value	%	Function	Notes		
Base Chan	0-255	0-100	Dimmer	Base Chan= 1 to 499		
Base Chan+1	0-15 16-31 32-47 48-63 64-79 80-95 96-111 112-127 128-143 144-159 160-255	0-6 6-12 12-19 19-25 25-31 31-37 37-43 44-50 50-56 57-63 63-100	EFFECTS Emergency Fire Fireworks HUE Burst Lite-ning Paparazzi Party Lites Pulsing Strobe TV/Monitor Reserved			
Base Chan+2	0-255	0-100	DMX EFFECTS PARAMETER 1 (See Dmx Effects Parmes below)			
Base Chan+3	0-255	0-100	DMX EFFECTS PARAMETER 2 (See Dmx Effects Parmes 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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved			
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 Parmes below)			
Base Chan+7	0-255	0-100	DMX EFFECTS PARAMETER 4 (See Dmx Effects Parmes below)			
Base Chan+8	0-255	0-100	DMX EFFECTS PARAMETER 5 (See Dmx Effects Parmes below)			

Presets Trigger Mode (Gemini Set to 8 Bit Mode)

(Bump Base Channel Data from 0 to 128 to Trigger)

Channel	Value	%	Function	Notes
Base Chan	0-255	0-100	TRIGGER	Value from 0 to 128 Triggers
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	0-127 128-255	0-50 51-100	TRIGGER ENABLE Preset Trigger Disabled Preset Trigger Enabled	Must be > 127
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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved	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)

CCT Mode (Gemini Set to 16 Bit Mode)

Channel		Value	%	Function	Notes
Upper	Lower				
Base Chan	Base Chan+1	0-65535	0-100	Dimmer	Base Chan= 1 to 499
Base Chan+2	Base Chan+3	0-32767 32768-65535	0-50 50-100	CCT (2700K-6000K) Tungsten Source Daylight Source	
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 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+5		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+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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved	
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)

Preset Trigger Mode (Gemini Set to 16 Bit Mode)						
(Bump Base Channel Data from 0 to 128 to Trigger)						
Base Chan	0-255	0-100	TRIGGER	Value from 0 to 128 Triggers		
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	0-127 128-255	0-50 51-100	TRIGGER ENABLE Preset Trigger Disabled Preset Trigger Enabled	Must be > 127		
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 EFFECTS (Loop Mode) PRESETS TRIGGER MODE Reserved			

DMX Effects Parameters (Effects Run in Looped Mode)					
EFFECT	PARM1	PARM2	PARM3	PARM4	PARM5
EMERGENCY!	# of Pulses 0-20% = 1 21-40% = 2 41-60% = 3 61-80% = 4 81-100% = 5	Colors 0-13% = Blue 14-28% Red 29-42% = Amber 43-56% = Blue+Red 57-71% = Blue+Amber 72-85% Blue+White 86-100% Blue+Red+WH	Reserved	Reserved	Reserved
FIRE	HUE 0% = 0 Deg 100% = 359 Deg	SATuration 0% = No SAT 100% = Full SAT	Rate 0% = Slow 100% = Fast	Depth 0%=Shallow 100%=Deep	Reserved
FIREWORKS	Frequency 0% = Sparse 100% = Frequent	Color Mix 0-24% = 1 Color 25-49% = Narrow 50-74% = Medium 75-100% = Wide	Sustain 0-33% = Short 34-66% = Med 67-100% = Long	Reserved	Reserved
HUE BURST	HUE 0% = 0 Deg 100% = 359 Deg	SATuration 0% = No SAT 100% = Full SAT	Gap Between Pulses 0% = 40mSec 100% = 400mSec	Rest for Loop 0% = 50mSec 100% = 5000mSec	Pulse Qty 0% = 1 100% = 16
Lite-ning	Rate 0% = Slowest 100% = Fastest	CCT 0% = 2700K 100% = 6000K	Reserved	Reserved	Reserved
Paparazzi	Frequency 0% = Sparse 100% = Frequent	CCT 0% = 2700K 100% = 6000K	Flash Type 0-24% = 50mSec 25-49% = 100mSec 50-74% = 150mSec 75-100% Bulb	Reserved	Reserved
Party Lites	Rate 0% = Slowest 100% = Fastest	Type 0-33% = Pulsing 34-66% = Chase 67-100% Blend	Colors 0-19% = Red, WH, Blue 20-39% = Red, Green, Blue 40-60% = 6 Color 61-79% = 12 Color 80-100% = Random	Reserved	Reserved
Pulsing	HUE 0% = 0 Deg 100% = 359 Deg	SATuration 0% = No SAT 100% = Full SAT	Ramp Time 0% = Fastest Ramp U/D 100% = Slowest Ramp U/D	On Time 0% = 25mSec 100% = 5000mSec	Rest for Loop 0% = 25mSec 100% = 5000mSec
Strobe	HUE 0% = 0 Deg 100% = 359 Deg	SATuration 0% = No SAT 100% = Full SAT	On Time 0% = Fastest Ramp U/D 100% = Slowest Ramp U/D	On Time 0% = 25mSec 100% = 5000mSec	Rest for Loop 0% = 25mSec 100% = 5000mSec
TV / Monitor	Rate 0% = Slowest 100% = Fastest	Motion 0% = Least Motion 100% = Most Motion	CCT 0-33% = Warm 34-66% = Neutral 67-100% Cool	Reserved	Reserved

