13. DMX CHANNEL TRAITS:

The chart below details the channel layout for 15 DMX channels (default).

In 8bit mode the "Pan Fine" and "Tilt Fine" channels are not used, thus converting the fixture into a 13-channel DMX fixture.

CHANNEL 1: Pan Movement (max. 630° or 540° User Selectable)

CHANNEL 2: 16bit Pan Movement (pan fine)

CHANNEL 3: Tilt Movement (max. 265°)

CHANNEL 4: 16bit Tilt Movement (tilt fine)

CHANNEL 5: Color Wheel

CHANNEL 6: Gobo Wheel 1 (Rotating)

CHANNEL 7: Gobo Index, Gobo Rotation Speed/Direction (Gobo Wheel 1)

CHANNEL 8: Gobo Wheel 2 (Fixed)

CHANNEL 9: 3-Facet Prism Control

CHANNEL 10: Focus Control Motor (Near ~ Far)

CHANNEL 11: Strobe (0-13Hz), and Shutter close/open function + random strobe

CHANNEL 12: Dimmer (Intensity) Control

CHANNEL 13: Iris (Closed to Open)

CHANNEL 14: Speed Control (Pan/Tilt movement, blackout selection)

CHANNEL 15: Special (Auto program control + lamp on, motor reset, lamp switch off)

DMX channel function and values:

DMX channel functions and values (24 DMX channels):				
Mode/Channel			Value	Function
St	Ba	Ex		
1	1	1		**PAN Movement 8bit :**
			0-255	Pan Movement
2		2		**Pan Fine 16bit**
			0-255	Fine control of Pan movement
3	2	3		**TILT Movement 8bit :**
			0-255	Tilt Movement
4		4		**Tilt Fine 16bit**
			0-255	Fine control of Tilt movement

5	3	5		**Color Wheel:**	
			0-13	Open / white
			14-27	Color 1
			28-41	Color 2
			42-55	Color 3
			56-69	Color 4
			70-83	Color 5
			84-97	Color 6
			98-111	Color 7
			112-127	Color 8
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
		6		**Color Wheel Fine:**
			0-255	Split Colors
6	4	7		**Rotating gobos, cont. rotation:**
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
			60-69	Rot. gobo 6
			70-89	Gobo 1 shake slow to fast
			90-109	Gobo 2 shake slow to fast
			110-129	Gobo 3 shake slow to fast
			130-149	Gobo 4 shake slow to fast
			150-169	Gobo 5 shake slow to fast
			170-189	Gobo 6 shake slow to fast
			190-255	Rot. gobo wheel cont. rotation slow to fast
7	5	8		**Rotating gobo index, rotating gobo rotation:**
			0-127	Gobo indexing
			128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
			194-255	Backwards gobo rotation from slow to fast
		9		**Rotating gobo indexing Fine**
			0-255	Fine indexing
8	6	10		**Fixed Gobos:**
			0-13	Open/hole
			14-27	Gobo 1
			28-41	Gobo 2
			42-55	Gobo 3

			56-69	Gobo 4
			70-83	Gobo 5
			84-97	Gobo 6
			98-111	Gobo 7
			112-127	Gobo 1 shake slow to fast
			128-143	Gobo 2 shake slow to fast
			144-159	Gobo 3 shake slow to fast
			160-175	Gobo 4 shake slow to fast
			176-191	Gobo 5 shake slow to fast
			192-207	Gobo 6 shake slow to fast
			208-223	Gobo 7 shake slow to fast
			224-255	Gobo wheel rotation from slow to fast
		11		**Fixed gobo indexing Fine**
			0-255	Fixed gobo Fine indexing
				3 facet rotating prism, Prism / Gobo macros:
			0-3	Open
			4-63	Forwards rotation from fast to slow
			64-67	No rotation
			68-127	Backwards rotation from slow to fast
			128-135	Macro 1
			136-143	Macro 2
			144-151	Macro 3
			152-159	Macro 4
			160-167	Macro 5
9	7	12	168-175	Macro 6
			176-183	Macro 7
			184-191	Macro 8
			192-199	Macro 9
			200-207	Macro 10
			208-215	Macro 11
			216-223	Macro 12
			224-231	Macro 13
			232-239	Macro 14
			240-247	Macro 15
			248-255	Macro 16
10	8	13		**Focus:**
			0-255	Continuous adjustment from near to far
		14		**Focus Fine:**
			0-255	Continuous adjustment Fine
11	9	15		**Shutter, strobe:**
			0-31	Shutter closed
			32-63	No function (shutter open)

			64-95	Strobe effect slow to fast
			96-127	No function (shutter open)
			128-159	Pulse-effect in sequences
			160-191	No function (shutter open)
			192-223	Random strobe effect slow to fast
			224-255	No function (shutter open)
12	10	16		**Dimmer intensity:**
			0-255	Intensity 0 to 100%
		17		**Fine Dimmer intensity:**
			0-255	Dimmer intensity fine
13	11	18		**Iris:**
			0-191	Max. diameter to Min.diameter
			192-223	Pulse opening fast to slow
			224-255	Pulse closing slow to fast
14	12	19		**Speed Pan/Tilt movement:**
			0-225	max to min speed
			226-235	Blackout by movement
			236-245	Blackout by all wheel changing
			246-255	No function
15	13	20		**Lamp on/off, reset, internal programs:**
			0-19	Color & gobo change normal
			20-29	Color change to any position
			30-39	Color & gobo change to any position
			40-59	Lamp on
			60-79	Lamp switch off
			80-84	All motor reset
			85-87	Scan motor reset
			88-90	Colors motor reset
			91-93	Gobo motor reset
			94-96	Shutter & Dimmer motor reset
			97-99	Other motor reset
			100-119	Internal program 1 (secne1~8 of EEPROM)
			120-139	Internal program 2 (secne9~16 of EEPROM)
			140-159	Internal program 3 (secne17~24 of EEPROM)
			160-179	Internal program 4 (secne25~32 of EEPROM)
			180-199	Internal program 5 (secne33~40 of EEPROM)
			200-219	Internal program 6 (secne41~48 of EEPROM)
			220-239	Internal program 7 (secne49~56 of EEPROM)
			240-255	Music Control (scene of Program 1)