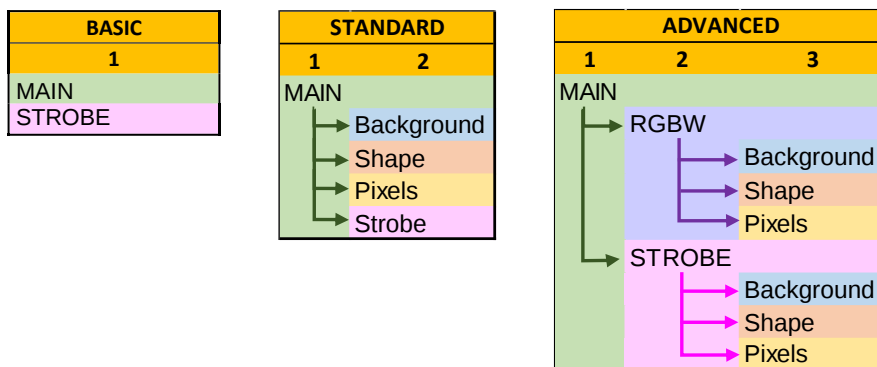


IMPORTANT NOTE

With the firmware version 1.0.006 we introduced three new DMX mode with the name BASIC, STANDARD & ADVANCED. Channel modes have been renamed and adjusted in several aspects to align with the new control structure. Channels are now arranged and grouped more consistently, following a layer-based structure for improved clarity and usability.



New Instances/Groups: Additional channel groups have been implemented to enable full control of the fixture and unlock new usage possibilities.

Updated SHUTTER Channel: Presets have been reorganized to prevent misconfigurations and to improve usability of Master/Slave functions.

Revised SHAPE SELECTION Channel: Ranges are no longer divided based on the number of shapes. Instead, each shape now has a defined and consistent range across all fixtures, making console operation more efficient.

FUNCTION and RESET Channel Reorganization: Due to the increasing number of features introduced in our products, the original FUNCTION and RESET channels have been mixed into two new channels:

FUNCTION: Includes the most common functions shared across all products, as well as reset commands.

FUNCTION 2: Contains functions specific to individual products or product families.

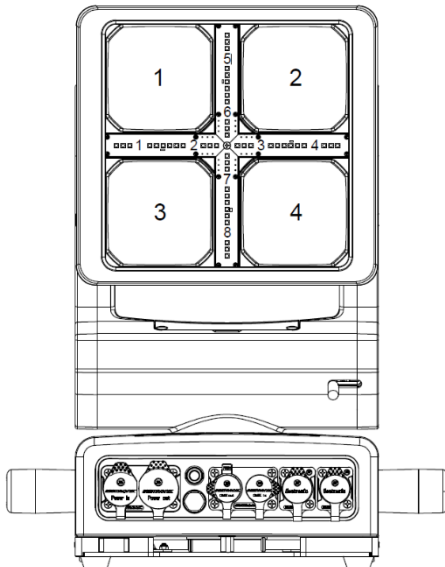
The channel modes previously available in earlier firmware versions of the Volero Cube are still present and have been renamed with the suffix "OLD" for clarity and backward compatibility.

ORIGINAL DMX MAPPING	NEW DMX MAPPING
Basic Old	Basic
Standard Old	Standard
Advanced Old	Advanced

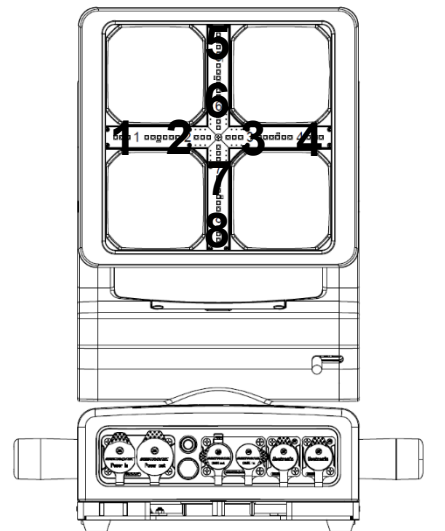
DMX MODES

DMX Channel	STANDARD OLD	SHAPE OLD	ADVANCED OLD
1	PAN	PAN	PAN
2	PAN FINE	PAN FINE	PAN FINE
3	ENDLESS PAN	ENDLESS PAN	ENDLESS PAN
4	PAN DIRECTION	PAN DIRECTION	PAN DIRECTION
5	TILT	TILT	TILT
6	TILT FINE	TILT FINE	TILT FINE
7	ZOOM	ZOOM	ZOOM
8	SHUTTER	MASTER SHUTTER	MASTER SHUTTER
9	DIMMER	MASTER DIMMER	MASTER DIMMER
10	DIMMER FINE	MASTER DIMMER FINE	MASTER DIMMER FINE
11	FUNCTION	FUNCTION	FUNCTION
12	RED	L1 RED	LAYER SELECTION
13	GREEN	L1 RED FINE	LAYER CROSSFADE
14	BLUE	L1 GREEN	L1 RED
15	WHITE	L1 GREEN FINE	L1 GREEN
16	CTO	L1 BLUE	L1 BLUE
17	MACRO COL	L1 BLUE FINE	L1 WHITE
18	STROBE SHUT	L1 WHITE	L1 CTO
19	STROBE DIM	L1 WHITE FINE	L1 SHUTTER
20	STROBE PAT MODE	L1 CTO	L1 DIMMER
21	STROBE PATTERNS	MACRO COLOR	L2 RED
22	STROBE PAT INDEX/SPEED	COLOR CROSSFADE	L2 GREEN
23	-	L1 SHUTTER	L2 BLUE
24	-	L1 DIMMER	L2 WHITE
25	-	L2 RED	L2 CTO
26	-	L2 GREEN	L2 SHUTTER
27	-	L2 BLU	L2 DIMMER
28	-	L2 WHITE	L2 PATTERN MODE
29	-	L2 CTO	L2 PATTERN SELECTION
30	-	L2 SHUTTER	L2 PATTERN SPEED
31	-	L2 DIM	L2 PATTERN FADE
32	-	L2 PATT MODE	L2 TRANSITION
33	-	L2 SELECTION	L3 SHUTTER
34	-	L2 PAT SPEED	L3 DIMMER
35	-	L2 PAT FADE	STROBE MODE
36	-	L2 PAT TRANSITION	STROBE MASTER DIMM
37	-	STROBE SHUT	STROBE BG DIM
38	-	STROBE DIM	STROBE PATTERN DIM
39	-	STROBE PAT MODE	STROBE PIX DIM
40	-	STROBE PATTERNS	DURATION
41	-	STROBE PAT INDEX/SPEED	RATE
42	-	-	STROBE PATTERN MODE
43	-	-	STROBE PATTERNS
44	-	-	STROBE INDEX/SPEED
45	-	-	STROBE FADE

PIXEL ENGINE MODE

DMX Channel	Pixels RGBW	Led Reference
1	Red 1	
2	Green 1	
3	Blue 1	
4	White 1	
5	Red 2	
6	Green 2	
7	Blue 2	
8	White 2	
9	Red 3	
10	Green 3	
11	Blue 3	
12	White 3	
13	Red 4	
14	Green 4	
15	Blue 4	
16	White 4	

STROBE ENGINE MODE

DMX Channel	Strobe Led	Led Reference
1	White 1	
2	White 2	
3	White 3	
4	White 4	
5	White 5	
6	White 6	
7	White 7	
8	White 8	

FUNCTION DETAILS

DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD OLD	SHAPE OLD	ADVANCED OLD			
1	1	1	000		PAN
				000 - 255	Pan CCW positioning from 0° to 540° (default setting)
2	2	2	000		PAN FINE
				000 - 255	Fine Pan positioning
3	3	3	000		ENDLESS PAN
				000 - 000	Unused range
				001 - 255	Pan rotation from Slow to Fast
4	4	4	000		PAN DIRECTION
				000 - 000	CCW
				001 - 255	CW
5	5	5	000		TILT
				000 - 255	Tilt CCW positioning
6	6	6	000		TILT FINE
				000 - 255	Fine Tilt positioning
7	7	7	000		ZOOM
				000 - 255	Linear (from wide 000 to narrow 255)
8	8	8	000		MASTER SHUTTER
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON
				213 - 225	Random Strobe at slow frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at fast frequency
9	9	9	000		MASTER DIMMER
				000 - 255	Linear 0 – 100%
10	10	10			MASTER DIMMER FINE
			000	000 - 255	Linear Fine Dimmer

DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD OLD	SHAPE OLD	ADVANCED OLD			
11	11	11	000		FUNCTION
				000 - 001	Unused range
				002 - 003	Fan auto mode
				004 - 007	Fan theatre mode
				008 - 009	Fan constant mode
				010 - 011	Fan silent mode
				012 - 037	Unused range
				038 - 042	RGB Gamma 1.0
				043 - 047	RGB Gamma 1.5
				048 - 052	RGB Gamma 2.0
				053 - 067	Unused range
				068 - 072	Reverse mapping OFF
				073 - 077	Reverse mapping ON
				078 - 080	Setting LED calibration by RGBW pixels mapping channels
				081 - 083	Save actual LED calibration as "custom calibration"
				084 - 086	Set "custom calibration" preset
				087 - 089	Set "full calibration" preset (all LEDs are calibrated at 255 DMX value)
				090 - 092	Set "factory calibration" preset
				093 - 097	Pixel Mapping disabled
				098 - 102	RGBW (Pixel Mapping enabled)
				103 - 105	Strobe Mapping disabled
				106 - 109	Strobe Mapping enabled
				110 - 120	Unused range
				121 - 130	Freq. 0 (36.5 – 73.5 kHz)
				131 - 140	Freq. 1 (18.2 – 36.5 kHz)
				141 - 150	Freq. 2 (9.19 – 18.2 kHz)
				151 - 160	Freq. 3 (4.55 – 9.19 kHz)
				161 - 170	Freq. 4 (2.27 – 4.55 kHz)
				171 - 180	Freq. 5 (1.14 – 2.27 kHz)
				181 - 183	Pan disabled
				184 - 187	Pan enabled
				188 - 190	Invert tilt disabled
				191 - 193	Invert tilt enabled
				194 - 197	Invert pan disabled
				198 - 200	Invert pan enabled
				201 - 205	Dimmer Curve 1 (default)
				206 - 210	Dimmer Curve 2
				211 - 215	Dimmer Curve 3
				216 - 220	Dimmer Curve 4
				221 - 225	Dimmer Curve 5
				226 - 251	Unused range
				252 - 253	Complete Reset
				254 - 255	Unused range
-	-	12	000		LAYER SELECTION
				000 - 255	TBD
-	-	13	000		LAYER CROSSFADE
				000 - 255	TBD

DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION	
STANDARD OLD	SHAPE OLD	ADVANCED OLD				
12	12	14	000	000 - 255	L1 RED Linear 0 – 100%	
-	13	-	000	000 - 255	L1 RED FINE Linear Fine Red (16 bit)	
13	14	15	000	000 - 255	L1 GREEN Linear 0 – 100%	
-	15	-	000	000 - 255	L1 GREEN FINE Linear Fine Green (16 bit)	
14	16	16	000	000 - 255	L1 BLUE Linear 0 – 100%	
-	17	-	000	000 - 255	L1 BLUE FINE Linear Fine Blue (16 bit)	
15	18	17	000	000 - 255	L1 WHITE Linear 0 – 100%	
-	19	-	000	000 - 255	L1 WHITE FINE Linear Fine White (16 bit)	
16	20	18	000		CTO	
				000 - 255	8000K to 2500K	CTO Mode → Calibrated White
				000 - 009	Deactivated	CTO Mode → RAW
				010 - 255	8000K to 2500K	

DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD OLD	SHAPE OLD	ADVANCED OLD			
17	21	-	000		MACRO COLOUR
				000 - 009	No macro colour
				010	Red
				011	Green
				012	Blue
				013	Cyan
				014	Yellow
				015	Magenta
				016	White 7000K
				017	White 3700K
				018	White 5000K
				019	Black
				020 - 022	Medium Yellow
				023 - 026	Straw Tint
				027 - 028	Surprise Peach
				029	Fire
				030	Medium Amber
				031	Gold Amber
				032 - 34	Dark Amber
				035 - 44	Sunrise Red
				045	Light Pink
				046 - 048	Medium Pink
				049 - 061	Pink Carnation
				062 - 067	Light Lavender
				068 - 077	Lavender
				078 - 088	Sky Blue
				089 - 099	Just Blue
				100 - 109	Dark Yellow green
				110 - 111	Spring Yellow
				112	Light Amber
				113	Straw
				114	Deep Amber
				115 - 116	Orange
				117	Light Rose
				118	English Rose
				119	Light Salmon
				120	Middle Rose
				121 - 122	Dark Pink
				123 - 124	Magenta
				125	Peacock Blue
				126	Med Blue Green
				127	Steel Blue
				128	Light Blue
				129 - 130	Dark Blue
				131 - 133	Leaf Green
				134 - 135	Dark Green
				136 - 137	Mauve
				138 - 141	Bright Pink
				142 - 144	Medium Blue
				145	Deep Golden Amber
				146	Pale Lavender
				147 - 148	Special lavender
				149 - 150	Primary Green
				151 - 156	Bright Blue
				157 - 161	Apricot
				162 - 167	Pale Gold
				168 - 171	Deep Orange
				172 - 173	Bastard Amber
				174	Flame Red
				175 - 178	Daylight Blue
				179	Lilac Tint
				180 - 183	Deep Lavender
				184 - 190	Dark Steel Blue
				191 - 206	Congo Blue
				207	Alice Blue
				208	Dirty White
				209 - 255	White

DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD OLD	SHAPE OLD	ADVANCED OLD			
-	22	-	000		COLOR CROSSFADE
				000 - 255	TBD
					BACKGROUND LAYER 1 SHUTTER
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
				252 - 255	Light ON
					BACKGROUND LAYER 1 DIMMER
-	24	20	000	000 - 255	Linear 0 – 100%
					LAYER 2 RED
-	25	21	000	000 - 255	Linear 0 – 100%
					LAYER 2 GREEN
-	26	22	000	000 - 255	Linear 0 – 100%
					LAYER 2 BLUE
-	27	23	000	000 - 255	Linear 0 – 100%
					LAYER 2 WHITE
-	28	24	000	000 - 255	Linear 0 – 100%
					LAYER 2 CTO
-	29	25	000	000 - 255	8000K to 2500K
					LAYER 2 SHUTTER
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON (L2 slave)
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
				252 - 255	Light ON (L2 Master)
					The shutter effect in this case refers only to LAYER 2
					LAYER 2 DIMMER
-	31	27	255	000 – 255	Linear 0 – 100%

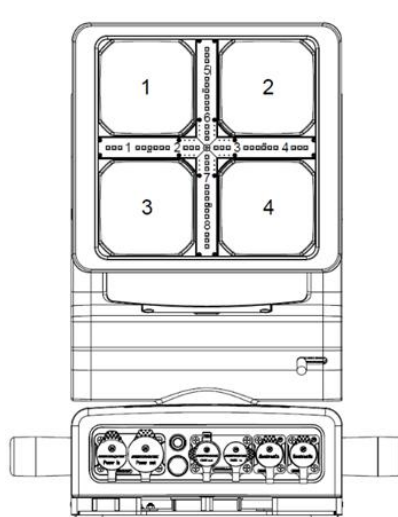
DMX MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD OLD	SHAPE OLD	ADVANCED OLD			
-	32	28	000		LAYER 2 SHAPE/PATTERN MODE
				000 - 006	Normal Mode
				007 - 130	Static Mode
				131 - 255	Dynamic Mode
-	33	29	000		LAYER 2 PATTERN SELECTION
				000 - 255	Change shape pattern
-	34	30	000		LAYER 2 PATTERN SPEED
				000 - 255	Indexing (in Static mode)
				000 - 124	Speed control fast to slow, forward (in Dynamic mode)
				125 - 130	Stop (in Dynamic mode)
				131 - 255	Speed control slow to fast, backward (in Dynamic mode)
-	35	31	000		LAYER 2 PATTERN FADE
				000 - 127	Fade In/Out
				128 - 255	Fade Out
-	36	32	000		LAYER 2 PATTERN TRANSITION
				000 - 255	Crossfade between layers/pattern (0: instant transition - 255: 3 seconds transition) ONLY ON LAYER MODE
-	-	33	000		L3 SHUTTER
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON (L3 Slave)
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
				252 - 255	Light ON (L3 Master)
				the shutter effect in this case refers only to LAYER 3	
-	-	34	000		L3 DIMMER
				000 - 255	Linear 0 – 100%
18	37	-	000		STROBE SHUTTER
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
				252 - 255	Light ON

DMX MODE			DMX DEFAULT VALUE	CHANNEL	FUNCTION	
STANDARD OLD	SHAPE OLD	ADVANCED OLD				
-	-	35	000		STROBE MODE	
				000 - 020	Light ON	
				021 - 040	Light OFF	
				041 - 060	Light ON	
				061 - 080	Linear	
				081 - 100	Ramp Up	
				101 - 120	Ramp Down	
				121 - 140	Ramp Up/Down	
				141 - 160	Random	
				161 - 180	Lightning	
				181 - 200	Spikes	
				201 - 255	Light ON	
19	38	36	000		STROBE MASTER DIMMER	
				000 - 255	Linear 0 – 100%	
-	-	37	000		STROBE BACKGROUND DIMMER	
				000 - 255	Linear 0 – 100%	
-	-	38	000		STROBE PATTERN DIMMER	
				000 - 255	Linear 0 – 100%	
-	-	39	000		STROBE PIXEL DIMMER	
				000 - 255	Linear 0 – 100%	
-	-	40	000		STROBE DURATION	
				000 - 255	From 20ms to 1s	
-	-	41	000		STROBE RATE	
				000 - 255	From 3.5s to 40ms	
20	39	42	000		STROBE PATTERN MODE	
				000 - 006	Normal Mode	
				007 - 130	Static Mode	
				131 - 255	Dynamic Mode	
21	40	43	000		STROBE PATTERN SELECTION	
				000 - 255	Change shape pattern	
22	41	44	000		STROBE PATTERN SPEED	
				000 - 255	Indexing (in Static mode)	Static mode
				000 - 124	Speed control fast to slow, forward	Dynamic mode
				125 - 130	Stop	
				131 - 255	Speed control slow to fast, backward	
-	-	45	000		STROBE PATTERN FADE	
				000 - 127	Fade In/Out	
				128 - 255	Fade Out	

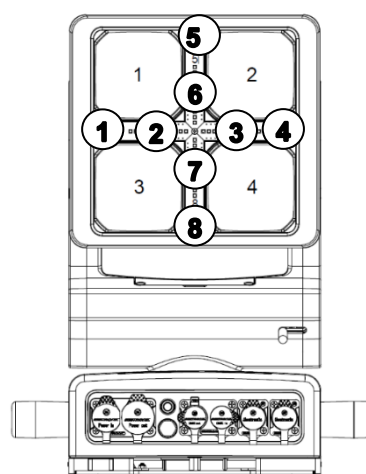
NEW DMX MODES

DMX Channel	BASIC		STANDARD		ADVANCED	
1	MAIN	PAN	MAIN	PAN	MAIN	PAN
2		PAN FINE		PAN FINE		PAN FINE
3		ENDLESS PAN		ENDLESS PAN		ENDLESS PAN
4		PAN DIRECTION		PAN DIRECTION		PAN DIRECTION
5		TILT		TILT		TILT
6		TILT FINE		TILT FINE		TILT FINE
7		ZOOM		ZOOM		ZOOM
8		SHUTTER		SHUTTER		DIMMER
9		DIMMER		DIMMER		DIMMER FINE
10		DIMMER FINE		DIMMER FINE		FUNCTION
11		FUNCTION		FUNCTION		FUNCTION2
12		FUNCTION2		FUNCTION2		
13	STROBE	RED	BACKGROUND	RED	RGBW	SHUTTER
14		GREEN		RED FINE		DIMMER
15		BLUE		GREEN		DIMMER FINE
16		WHITE		GREEN FINE		RESERVED
17		CTO		BLUE	BACKGROUND	RED
18		SHUTTER		BLUE FINE		GREEN
19		DURATION		WHITE		BLUE
20		RATE		WHITE FINE		WHITE
21		DIMMER		CTO		CTO
22		SHAPE MODE		SHUTTER		SHUTTER
23		SHAPE SELECTION		DIMMER		DIMMER
24		INDEX / SPEED	SHAPE	RED	SHAPE	RED
25		FADE / WAKE		GREEN		GREEN
26		-		BLU		BLUE
27		-		WHITE		WHITE
28		-		TBD		TBD
29		-		SHUTTER		SHUTTER
30		-		DIMMER		DIMMER
31		-		SHAPE MODE		SHAPE MODE
32		-		SHAPE SELECTION		SHAPE SELECTION
33		-		INDEX / SPEED		INDEX / SPEED
34		-		FADE / WAKE		FADE / WAKE
35		-		TRANSITION		TRANSITION
36		-	STROBE	SHUTTER	PIX	SHUTTER
37		-		DURATION		DIMMER
38		-		RATE	STR OBE	SHUTTER
39		-		DIMMER		DIMMER
40		-		SHAPE MODE	BG	SHUTTER
41		-		SHAPE SELECTION		DURATION
42		-		INDEX / SPEED		RATE
43		-		FADE / WAKE		DIMMER
44		-	SHAPE	-	SHAPE	SHUTTER
45		-		-		DIMMER
46		-		-		SHAPE MODE
47		-		-		SHAPE SELECTION
48		-		-		INDEX / SPEED
49		-		-		FADE / WAKE
50		-		-	PIX	SHUTTER
		-		-		DIMMER

PIXELS ENGINE MODE

DMX Channel	Pixels RGBW	LED Reference
1	Red 1	
2	Green 1	
3	Blue 1	
4	White 1	
5	Red 2	
6	Green 2	
7	Blue 2	
8	White 2	
9	Red 3	
10	Green 3	
11	Blue 3	
12	White 3	
13	Red 4	
14	Green 4	
15	Blue 4	
16	White 4	

STROBE ENGINE MODE

DMX Channel	Strobe	LED Reference
1	White 1	
2	White 2	
3	White 3	
4	White 4	
5	White 5	
6	White 6	
7	White 7	
8	White 8	

FUNCTION DETAILS

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
1	1	1	128	000 - 255	PAN Pan positioning
2	2	2	000	000 - 255	PAN FINE Fine Pan positioning
3	3	3	000	000 - 000	ENDLESS PAN Unused range
				001 - 255	Pan rotation (slow to fast)
4	4	4	000	000 - 127	PAN DIRECTION CCW
				128 - 255	CW
5	5	5	128	000 - 255	TILT Tilt positioning
6	6	6	000	000 - 255	TILT FINE Fine Tilt positioning
7	7	7	000	000 - 255	ZOOM Linear (wide to narrow)
8	8	12	000	000 - 005	SHUTTER Open
				006 - 010	Closed
				011 - 015	Open
				016 - 115	Linear (slow to fast)
				116 - 120	Open
				121 - 150	Random at slow frequency
				151 - 180	Random at medium frequency
				181 - 210	Random at fast frequency
				211 - 255	Open
-	-	13	255	000 - 255	RGBW - DIMMER Linear 0 – 100%
9	9	8	000	000 - 255	DIMMER Linear 0 – 100%
10	10	9	000	000 - 255	DIMMER FINE Linear Fine Dimmer

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
11	11	10	000		FUNCTION
				000 - 004	HOME - Zero
				005 - 009	Fan Auto (Default)
				010 - 014	Fan Silent
				015 - 019	Fan Theatre
				020 - 024	Fan Constant
				025 - 034	Unused range
				035 - 039	Dimmer curve 1 (Default)
				040 - 044	Dimmer curve 2
				045 - 049	Dimmer curve 3
				050 - 054	Dimmer curve 4
				055 - 059	Dimmer curve 5
				060 - 069	Unused range
				070 - 074	Raw color channels gamma 1
				075 - 079	Raw color channels gamma 1.5
				080 - 084	Raw color channels gamma 2.2 (Default)
				085 - 089	Unused range
				090 - 094	Freq. 0 (1.14 – 2.27 kHz) (Default)
				095 - 099	Freq. 1 (2.27 – 4.55 kHz)
				100 - 104	Freq. 2 (4.55 – 9.19 kHz)
				105 - 109	Freq. 3 (9.19 – 18.2 kHz)
				110 - 114	Freq. 4 (18.2 – 36.5 kHz)
				115 - 119	Freq. 5 (36.5 – 73.5 kHz)
				120 - 129	Unused range
				130 - 134	Display Off (Default)
				135 - 139	Display On
				140 - 149	Unused range
				150 - 154	Pan Disable
				155 - 159	Pan Enable (Default)
				160 - 169	Unused range
				170 - 174	Invert Pan Off (Default)
				175 - 179	Invert Pan On
				180 - 184	Invert Tilt Off (Default)
				185 - 189	Invert Tilt On
				190 - 227	Unused range
				228 - 229	Reset Zoom
				230 - 231	Unused range
				232 - 233	Reset Pan
				234 - 235	Reset Tilt
				236 - 237	Reset P/T
				238 - 251	Unused range
				252 - 253	Reset All
				254 - 255	Default Function Recall
12	12	11	000		FUNCTION2
				000 - 004	HOME - Zero
				005 - 009	Pixels Engine Off (Default)
				010 - 014	Pixels Engine On

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
				015 - 019	Strobe Engine Off (Default)
				020 - 024	Strobe Engine On
				025 - 039	Unused range
				040 - 044	Reverse Mapping Off (Default)
				045 - 049	Reverse Mapping On
				050 - 149	Unused range
				150 - 154	Color Calibration Off (Default)
				155 - 159	Color Calibration Factory
				160 - 164	Color Calibration Custom
				165 - 169	Unused range
				170 - 174	Set Custom Calibration @FullWhite
				175 - 179	Set Custom Calibration @3200K
				180 - 184	Save Custom Calibration
				185 - 249	Unused range
				250 - 255	Default Recall
13	13	16	000		BG - RED
				000 - 255	Linear 0 – 100%
-	14	-	000		BG - RED FINE
				000 - 255	Linear Fine Red (16 bit)
14	15	17	000		BG - GREEN
				000 - 255	Linear 0 – 100%
-	16	-	000		BG - GREEN FINE
				000 - 255	Linear Fine Green (16 bit)
15	17	18	000		BG - BLUE
				000 - 255	Linear 0 – 100%
-	18	-	000		BG - BLUE FINE
				000 - 255	Linear Fine Blue (16 bit)
16	19	19	000		BG - WHITE
				000 - 255	Linear 0 – 100%
-	20	-	000		BG - WHITE FINE
				000 - 255	Linear Fine White (16 bit)
17	21	20	000		BG - CTO
				000 - 009	OFF
				010 - 255	8000K to 2700K
					BG - SHUTTER
				000 - 005	Open
				006 - 010	Closed
				011 - 015	Open
				016 - 115	Linear (slow to fast)
				116 - 120	Open
				121 - 150	Random at slow frequency
				151 - 180	Random at medium frequency
				181 - 210	Random at fast frequency
				211 - 255	Open
-	23	22	000		BG - DIMMER
				000 - 255	Linear 0 – 100%

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
-	24	23	000		SHAPE - RED
				000 - 255	Linear 0 – 100%
-	25	24	000		SHAPE - GREEN
				000 - 255	Linear 0 – 100%
-	26	25	000		SHAPE - BLUE
				000 - 255	Linear 0 – 100%
-	27	26	000		SHAPE - WHITE
				000 - 255	Linear 0 – 100%
-	28	27	000		TBD
-	29	28	000		SHAPE - SHUTTER
				000 - 005	Open
				006 - 010	Closed
				011 - 015	Open
				016 - 115	Linear (slow to fast)
				116 - 120	Open
				121 - 150	Random Slow
				151 - 180	Random Medium
				181 - 210	Random Fast
				211 - 215	Shape Master when dimmer@0
				216 - 220	Shape Slave when dimmer@0
				221 - 255	Open
-	30	29	255		SHAPE - DIMMER
				000 – 255	Linear 0 – 100%
-	31	30	000		SHAPE - SHAPE MODE
				000 - 005	Off
				006 - 130	Static
				131 - 255	Dynamic
-	32	31	000		SHAPE - SHAPE SELECTION
				000 - 004	Shape 1
				005 - 009	Shape 2
				010 - 014	Shape 3
				015 - 019	Shape 4
				020 - 024	Shape 5
				025 - 029	Shape 6
				030 - 034	Shape 7
				035 - 039	Shape 8
				040 - 044	Shape 9
				045 - 049	Shape 10
				050 - 054	Shape 11
				055 - 059	Shape 12
				060 - 064	Shape 13
				065 - 069	Shape 14
				070 - 074	Shape 15

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION	
BASIC	STANDARD	ADVANCED				
				075 - 079	Shape 16	
				080 - 084	Shape 17	
				085 - 089	Shape 18	
				090 - 094	Shape 19	
				095 - 099	Shape 20	
				100 - 104	Shape 21	
				105 - 109	Shape 22	
				110 - 114	Shape 23	
				115 - 119	Shape 24	
				120 - 124	Shape 25	
				125 - 129	Shape 26	
				130 - 134	Shape 27	
				135 - 139	Shape 28	
				140 - 144	Shape 29	
				145 - 149	Shape 30	
				150 - 154	Shape 31	
				155 - 159	Shape 32	
				160 - 164	Shape 33	
				165 - 169	Shape 34	
				170 - 174	Shape 35	
				175 - 179	Shape 36	
				180 - 184	Shape 37	
				185 - 189	Shape 38	
				190 - 194	Shape 39	
				195 - 199	Shape 40	
				200 - 204	Shape 41	
				205 - 209	Shape 42	
				210 - 214	Shape 43	
215 - 255	Unused range					
-	33	32	000		SHAPE - INDEX / SPEED	
				000 - 255	Indexing	Static Mode
				000 - 124	Forward (fast to slow)	Dynamic mode
				125 - 130	Stop	
				131 - 255	Backward (slow to fast)	
-	34	33	000		SHAPE - FADE / WAKE	
				000 – 005	Off	
				006 – 130	Fade	
				131 - 255	Wake	
-	35	34	000		SHAPE - TRANSITION	
				000 - 255	Crossfade to SHAPE (0s to 3s)	

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
-	-	35	000		PIXELS - SHUTTER
				000 - 010	Open
				011 - 020	Closed
				021 - 030	Open
				031 - 130	Linear (slow to fast)
				131 - 140	Pixels Master when dimmer@0
				141 - 150	Pixels Slave when dimmer@0
				151 - 255	Open
-	-	36	000		PIXELS - DIMMER
				000 - 255	Linear 0 – 100%
-	-	37	000		STROBE - SHUTTER
				000 - 005	Open
				006 - 010	Closed
				011 - 015	Open
				016 - 115	Linear (slow to fast)
				116 - 120	Open
				121 - 150	Random at slow frequency
				151 - 180	Random at medium frequency
				181 - 210	Random at fast frequency
				211 - 255	Open
21	39	38	255		STROBE - DIMMER
				000 - 255	Linear 0 – 100%
18	36	39	000		BACKGROUND - SHUTTER
				000 - 020	Open
				021 - 040	Closed
				041 - 060	Open
				061 - 080	Linear
				081 - 100	Ramp Up
				101 - 120	Ramp Down
				121 - 140	Ramp Up/Down
				141 - 160	Random
				161 - 180	Lightning
				181 - 200	Spikes
				201 - 255	Open
19	37	40	000		BACKGROUND - DURATION
				000 - 255	From 20ms to 1s
20	38	41	000		BACKGROUND - RATE
				000 - 255	From 3.5s to 40ms
-	-	42	000		BACKGROUND - DIMMER
				000 - 255	Linear 0 – 100%

CHANNEL MODE			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
BASIC	STANDARD	ADVANCED			
-	-	43	000		SHAPE - SHUTTER
				000 - 005	Open
				006 - 010	Closed
				011 - 015	Open
				016 - 115	Linear (slow to fast)
				116 - 120	Open
				121 - 150	Random Slow
				151 - 180	Random Medium
				181 - 210	Random Fast
				211 - 215	Shape Master when dimmer@0
				216 - 220	Shape Slave when dimmer@0
				221 - 255	Open
-	-	44	000		SHAPE - DIMMER
				000 - 255	Linear 0 – 100%
22	40	45	000		SHAPE - SHAPE MODE
				000 - 005	Off
				006 - 130	Static
				131 - 255	Dynamic
23	41	46	000		SHAPE - SHAPE SELECTION
				000 - 004	Shape 1
				005 - 009	Shape 2
				010 - 014	Shape 3
				015 - 019	Shape 4
				020 - 024	Shape 5
				025 - 029	Shape 6
				030 - 034	Shape 7
				035 - 039	Shape 8
				040 - 044	Shape 9
				045 - 049	Shape 10
				050 - 054	Shape 11
				055 - 059	Shape 12
				060 - 064	Shape 13
				065 - 069	Shape 14
				070 - 074	Shape 15
				075 - 079	Shape 16
				080 - 084	Shape 17
				085 - 089	Shape 18
				090 - 094	Shape 19
				095 - 099	Shape 20
				100 - 104	Shape 21
				105 - 109	Shape 22
				110 - 114	Shape 23
				115 - 119	Shape 24
				120 - 124	Shape 25
				125 - 129	Shape 26
				130 - 134	Shape 27
				135 - 139	Shape 28
				140 - 144	Shape 29

CHANNEL MODE			DMX DEFAULT VALUE	CHANNEL	FUNCTION	
STANDARD	SHAPE	ADVANCED				
23	41	46	000	145 - 149	Shape 30	
				150 - 154	Shape 31	
				155 - 159	Shape 32	
				160 - 164	Shape 33	
				165 - 169	Shape 34	
				170 - 174	Shape 35	
				175 - 179	Shape 36	
				180 - 184	Shape 37	
				185 - 189	Shape 38	
				190 - 194	Shape 39	
				195 - 199	Shape 40	
				200 - 204	Shape 41	
				205 - 209	Shape 42	
				210 - 214	Shape 43	
				215 - 219	Shape 44	
				220 - 224	Shape 45	
				225 - 229	Shape 46	
				230 - 234	Shape 47	
				235 - 239	Shape 48	
				240 - 244	Shape 49	
				245 - 249	Shape 50	
				250 - 255	Unused range	
24	42	47	000		SHAPE – INDEX / SPEED	
				000 - 255	Indexing	Static mode
				000 - 124	Forward (fast to slow)	Dynamic mode
				125 - 130	Stop	
				131 - 255	Backward (slow to fast)	
25	43	48	000		SHAPE - FADE / WAKE	
				000 - 005	Off	
				005 - 130	Fade	
				131 - 255	Wake	
-	-	49	000		PIXELS - SHUTTER	
				000 - 010	Open	
				011 - 020	Closed	
				021 - 030	Open	
				031 - 130	Linear (slow to fast)	
				131 - 140	Pixels Master when dimmer@0	
				141 - 150	Pixels Slave when dimmer@0	
				131 - 255	Open	
-	-	50	000		PIXELS - DIMMER	
				000 - 255	Linear 0 – 100%	
-	-	15	000	000 - 255	RESERVED	