OPERATING MODES

The fixture has two operating modes:

- **Basic mode**, which uses 44 DMX channels
- **Standard mode**, which uses 54 DMX channels

IMPORTANT: Please note that all the default settings are highlighted in grey.

BASIC MODE	STANDARD MODE	FUNCTION
1	1	CYAN
-	2	CYAN FINE
2	3	MAGENTA
-	4	MAGENTA FINE
3	5	YELLOW
-	6	YELLOW FINE
4	7	CTO
-	8	CTO FINE
5	9	TINT
6	-	COLOR WHEEL
-	10	COLOR FUNCTION
-	11	COLOR WHEEL
7	12	STROBE
8	13	DIMMER
9	14	DIMMER FINE
10	15	IRIS
11	-	STATIC GOBO WHEEL
-	16	STATIC GOBO MODE
-	17	STATIC GOBO WHEEL
12	-	ROTATING GOBO WHEEL
-	18	ROTATING GOBO MODE
-	19	ROTATING GOBO WHEEL
13	20	GOBO ROTATION
-	21	GOBO ROTATION FINE
14	22	PRISM
15	23	PRISM ROTATION
16	24	ANIMATION WHEEL
17	25	ANIMATION WHEEL ROTATION
18	26	LIGHT FROST
19	27	HEAVY FROST
20	28	FOCUS
21	29	FOCUS FINE
22	30	ZOOM
23	31	ZOOM FINE
24	32	FRAMING BLADE 1 MOVEMENT
25	33	FRAMING BLADE 1 SWIVELLING
26	34	FRAMING BLADE 2 MOVEMENT
27	35	FRAMING BLADE 2 SWIVELLING

BASIC MODE	STANDARD MODE	FUNCTION
28	36	FRAMING BLADE 3 MOVEMENT
29	37	FRAMING BLADE 3 SWIVELLING
30	38	FRAMING BLADE 4 MOVEMENT
31	39	FRAMING BLADE 4 SWIVELLING
32	40	FRAMING ROTATION
33	41	FRAMING MACRO
34	42	FRAMING MACRO SPEED
35	43	PAN
36	44	PAN FINE
37	-	PAN ROTATION
-	45	PAN ROTATION
-	46	PAN DIRECTION
38	47	TILT
39	48	TILT FINE
40	-	TILT ROTATION
-	49	TILT ROTATION
-	50	TILT DIRECTION
41	51	RESET
42	52	FUNCTION
43	53	RESERVED
44	54	RESERVED

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
1	**1**	000		**CYAN**	
			000 - 255	Linear 0 - 100% from white to full	Linear
-	**2**	000	000 - 255	**CYAN FINE**	Linear
2	**3**	000		**MAGENTA**	
			000 - 255	Linear 0 - 100% from white to full	Linear
-	**4**	000	000 - 255	**MAGENTA FINE**	Linear
3	**5**	000		**YELLOW**	
			000 - 255	Linear 0 - 100% from white to full	Linear
-	**6**	000	000 - 255	**YELLOW FINE**	Linear
4	**7**	000		**CTO**	
			000 - 009	Off	Step
			010 - 255	Linear 0 - 100% from white to full	Linear
-	**8**	000	000 - 255	**CTO FINE**	Linear
5	**9**	000		**TINT**	
			000	No filter	Step
			001 - 126	Minus half green → Neutral	Linear
			127 - 128	Neutral filter	Step
			129 - 255	Neutral → Plus half green	Linear
6	**-**	000		**COLOR WHEEL**	
			000 - 004	White	Step
			005 - 009	Empty + Dark red	Step
			010 - 014	Dark red	Step
			015 - 019	Dark red + Brilliant blue	Step
			020 - 024	Brillant blue	Step
			025 - 029	Brilliant blue + Deep green	Step
			030 - 034	Deep green	Step
			035 - 039	Deep green + CRI-4	Step
			040 - 044	CRI-4	Step
			045 - 049	CRI-4 + Dark orange	Step
			050 - 054	Dark orange	Step
			055 - 059	Dark orange + Navy blue	Step
			060 - 064	Navy blue	Step
			065 - 069	Navy blue + empty	Step
			070 - 127	CW rotation from slow to fast	Step
			128 - 255	Linear color insertion	Step
-	**10**	000		**COLOR FUNCTION**	
			000 - 085	Full color	Step
			086 - 170	Half color	Step
			171 - 255	Linear path	Step
-	**11**	000		**COLOR WHEEL**	
				Full color	
			000 - 013	White	Step
			014 - 026	Dark red	Step
			027 - 039	Brilliant blue	Step
			040 - 052	Deep green	Step
			053 - 065	CRI-4	Step
			066 - 078	Dark orange	Step
			079 - 089	Navy blue	Step
				Half color	
			000 - 006	White	Step
			007 - 012	Empty + Dark red	Step
			013 - 018	Dark red	Step
			019 - 024	Dark red + Brilliant blue	Step
			025 - 030	Brilliant blue	Step
			031 - 036	Brilliant blue + Deep green	Step
			037 - 042	Deep green	Step

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
			043 - 048	Deep green + CRI-4	Step
			049 - 054	CRI-4	Step
			055 - 060	CRI-4 + Dark orange	Step
			061 - 066	Dark orange	Step
			067 - 072	Dark orange + Navy blue	Step
			073 - 078	Navy blue	Step
			079 - 084	Navy blue + empty	Step
			085 - 089	Empty	Step
				Linear path	
			000 - 013	White	Step
			014 - 026	Dark red	Step
			027 - 039	Brilliant blue	Step
			040 - 052	Deep green	Step
			053 - 065	CRI-4	Step
			066 - 078	Dark orange	Step
			079 - 089	Navy blue	Step
			090 - 127	CW rotation from slow to fast	Linear
			128 - 255	Linear color insertion	Linear
7	**12**	105		**STROBE**	
			000 - 003	Closed	Step
			004 - 103	Linear strobe from slow (1 flash/sec) to fast (25 flashes/sec)	Linear
			104 - 107	Open	Step
			108 - 207	Linear pulse from slow to fast	Linear
			208 - 212	Open	Step
			213 - 225	Random strobe at low frequency	Linear
			226 - 238	Random strobe at medium frequency	Linear
			239 - 251	Random strobe at high frequency	Linear
			252 - 255	Open	Step
8	**13**	000		**DIMMER**	
			000 - 255	Linear dimmer 0 - 100%	Linear
9	**14**	000	000 - 255	**DIMMER FINE (16 BIT)**	Linear
10	**15**	128		**IRIS**	
			000 - 127	Linear open from min to max	Linear
			128 - 131	Open	Step
			132 - 171	Pulse from slow to fast	Linear
			172 - 211	Pulse from slow to fast – instant opening	Linear
			212 - 251	Pulse from slow to fast – instant closing	Linear
			252 - 255	Open	Step
11	**-**	000		**STATIC GOBO WHEEL**	
			000 - 005	Open	Step
			006 - 010	Gobo 1	Step
			011 - 015	Gobo 2	Step
			016 - 020	Gobo 3	Step
			021 - 025	Gobo 4	Step
			026 - 030	Gobo 5	Step
			031 - 035	Gobo 6	Step

Basic	Standard	Default	Bit	Function		Type
			036 - 040	Gobo 7		Step
			041 - 045	Gobo 8		Step
			046 - 050	Gobo 9		Step
			051 - 061	Gobo 1 shakes from slow to fast		Linear
			062 - 072	Gobo 2 shakes from slow to fast		Linear
			073 - 083	Gobo 3 shakes from slow to fast		Linear
			084 - 094	Gobo 4 shakes from slow to fast		Linear
			095 - 105	Gobo 5 shakes from slow to fast		Linear
			106 - 116	Gobo 6 shakes from slow to fast		Linear
			117 - 127	Gobo 7 shakes from slow to fast		Linear
			128 - 138	Gobo 8 shakes from slow to fast		Linear
			139 - 150	Gobo 9 shakes from slow to fast		Linear
			151 - 200	Linear CCW wheel rotation from fast to slow		Linear
			201 - 205	Stop		Step
			206 - 255	Linear CW wheel rotation from sow to fast		Linear
-	16	000		**STATIC GOBO MODE**		
			000 - 127	Full		Step
			128 - 255	Shake slow to fast		Linear
-	17	000		**STATIC GOBO WHEEL**		
			000 - 015	Open		Step
			016 - 030	Gobo 1		Step
			031 - 045	Gobo 2		Step
			046 - 060	Gobo 3		Step
			061 - 075	Gobo 4		Step
			076 - 090	Gobo 5		Step
			091 - 105	Gobo 6		Step
			106 - 120	Gobo 7		Step
			121 - 135	Gobo 8		Step
			136 - 150	Gobo 9		Step
			151 - 200	Linear CCW wheel rotation from fast to slow		Linear
			201 - 205	Stop		Step
			206 - 255	Linear CW wheel rotation from slow to fast		Linear
12	-	000		**ROTATING GOBO WHEEL**		
			000 - 010	Open		Step
			011 - 015	Gobo 1		Step
			016 - 020	Gobo 2		Step

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
			021 - 025	Gobo 3	Step
			026 - 030	Gobo 4	Step
			031 - 035	Gobo 5	Step
			036 - 040	Gobo 6	Step
			041 - 045	Gobo 7	Step
			046 - 060	Gobo 1 shakes from slow to fast	Linear
			061 - 075	Gobo 2 shakes from slow to fast	Linear
			076 - 090	Gobo 3 shakes from slow to fast	Linear
			091 - 105	Gobo 4 shakes from slow to fast	Linear
			106 - 120	Gobo 5 shakes from slow to fast	Linear
			121 - 135	Gobo 6 shakes from slow to fast	Linear
			136 - 150	Gobo 7 shakes from slow to fast	Linear
			151 - 200	Linear CCW wheel rotation from slow to fast	Linear
			201 - 205	Stop	Step
			206 - 255	Linear CW wheel rotation from slow to fast	Linear
-	18	000		**ROTATING GOBO MODE**	
			000 - 127	Full	Step
			128 - 255	Shake slow to fast	Linear
-	19	000		**ROTATING GOBO WHEEL**	
			000 - 018	Open	Step
			019 - 037	Gobo 1	Step
			038 - 056	Gobo 2	Step
			057 - 075	Gobo 3	Step
			076 - 094	Gobo 4	Step
			095 - 113	Gobo 5	Step
			114 - 132	Gobo 6	Step
			133 - 150	Gobo 7	Step
			151 - 200	Linear CCW wheel rotating from fast to slow	Linear
			201 - 205	Stop	Step
			206 - 255	Linear CW wheel rotation from slow to fast	Linear
13	20	000		**GOBO ROTATION**	
			000 - 127	Index 0^0 - 540^0	Linear
			128 - 190	Linear CW rotation from fast to slow	Linear
			191 - 192	Stop	Step
			193 - 255	Linear CCW rotation from slow to fast	Linear
-	21	000	000 - 255	**FINE GOBO ROTATION**	
14	22	000		**PRISM**	
			000	Open	Step
			001 - 127	4-facet prism inserted	Step
			128	Open	Step

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
			129 - 254	4-facet linear prism inserted	Step
			255	Open	Step
15	23	000		**PRISM ROTATION**	
			000 - 127	Index 0^0 - 540^0	Linear
			128 - 190	Linear CW rotation from fast to slow	Linear
			191 - 192	Stop	Stop
			193 - 255	Linear CCW rotation from slow to fast	Linear
16	24	000		**ANIMATION WHEEL**	
			000 - 009	Open	Step
			010 - 255	Linear insertion	Linear
17	25	000		**ANIMATION WHEEL ROTATION**	
			000 - 003	Stop	Step
			004 - 127	Linear CCW rotation from slow to fast	Linear
			128 - 131	Stop	Step
			132 - 255	Linear CW rotation from slow to fast	Linear
18	26	000		**LIGHT FROST**	
			000 - 255	Linear frost insertion	Linear
19	27	000		**HEAVY FROST**	
			000 - 255	Linear frost insertion	Linear
20	28	128		**FOCUS**	
			000 - 255	Linear from distant to near	Linear
21	29	000	000 - 255	**FOCUS FINE**	Linear
22	30	128		**ZOOM**	
			000 - 255	Linear from narrow to wide	Linear
23	31	000	000 - 255	**ZOOM FINE**	Linear
24	32	000	000 - 255	**BLADE 1 - LINEAR INSERTION**	Linear
25	33	128		**BLADE 1 - LINEAR SWIVELING**	
			000 - 127	Swiveling from -25^0 to 0^0	Linear
			128	0^0 default	Step
			129 - 255	Swiveling from 0^0 to $+25^0$	Linear
26	34	000	000 - 255	**BLADE 2 - LINEAR INSERTION**	Linear
27	35	128		**BLADE 2 - LINEAR SWIVELING**	
			000 - 127	Swiveling from -25^0 to 0^0	Linear
			128	0^0 default	Step
			129 - 255	Swiveling from 0^0 to $+25^0$	Linear
28	36	000	000 - 255	**BLADE 3 - LINEAR INSERTION**	Linear
29	37	128		**BLADE 3 - LINEAR SWIVELING**	
			000 - 127	Swiveling from -25^0 to 0^0	Linear
			128	0^0 default	Step
			129 - 255	Swiveling from 0^0 to $+25^0$	Linear
30	38	000	000 - 255	**BLADE 4 - LINEAR INSERTION**	Linear
31	39	128		**BLADE 4 - LINEAR SWIVELING**	
			000 - 127	Swiveling from -25^0 to 0^0	Linear
			128	0^0 default	Step
			129 - 255	Swiveling from 0^0 to $+25^0$	Linear
32	40	128		**FRAMING ROTATION**	
			000 - 127	Linear rotation CCW	Linear
			128	Middle	Step
			129 - 255	Linear rotation CW	Linear
33	41	000		**FRAMING MACRO**	
			000 - 003	OFF	Step
			004 - 011	Macro 1	Step
			012 - 018	Macro 2	Step
			019 - 025	Macro 3	Step
			026 - 032	Macro 4	Step
			033 - 039	Macro 5	Step

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
			040 - 047	Macro 6	Step
			048 - 054	Macro 7	Step
			055 - 061	Macro 8	Step
			062 - 068	Macro 9	Step
			069 - 075	Macro 10	Step
			076 - 082	Macro 11	Step
			083 - 090	Macro 12	Step
			091 - 097	Macro 13	Step
			098 - 104	Macro 14	Step
			105 - 111	Macro 15	Step
			112 - 118	Macro 16	Step
			119 - 125	Macro 17	Step
			126 - 133	Macro 18	Step
			134 - 140	Macro 19	Step
			141 - 147	Macro 20	Step
			148 - 154	Macro 21	Step
			155 - 161	Macro 22	Step
			162 - 168	Macro 23	Step
			169 - 176	Macro 24	Step
			177 - 183	Macro 25	Step
			184 - 190	Macro 26	Step
			191 - 197	Macro 27	Step
			198 - 204	Macro 28	Step
			205 - 211	Macro 29	Step
			212 - 219	Macro 30	Step
			220 - 226	Macro 31	Step
			227 - 233	Macro 32	Step
			234 - 240	Macro 33	Step
			241 - 247	Macro 34	Step
			248 - 255	Macro 35	Step
34	42	000		**FRAMING MACRO SPEED**	
			000 - 255	Macro speed from slow to fast	Linear
35	43	128	000 - 255	**PAN**	Linear
36	44	000	000 - 255	**PAN FINE**	Linear
37	-	000		**PAN ROTATION**	
			000 - 003	No rotation	Step
			004 - 125	Fast to slow (CW)	Linear
			126 - 129	Stop	Step
			130 - 251	Slow to fast (CCW)	Linear
			252 - 255	No rotation	Step
-	45	000		**PAN ROTATION**	
			000	No rotation	Step
			001 - 255	Slow to fast	Linear
-	46	000		**PAN DIRECTION**	
			000 - 127	CW	Step
			128 - 255	CCW	Step
38	47	128	000 - 255	**TILT**	Linear
39	48	000	000 - 255	**TILT FINE**	Linear
40	-	000		**TILT ROTATION**	
			000 - 003	No rotation	Step
			004 - 125	Fast to slow (BW)	Linear
			126 - 129	Stop	Step
			130 - 251	Slow to fast (FW)	Linear
			252 - 255	No rotation	Step
-	49	000		**TILT ROTATION**	
			000	No rotation	Step

BASIC	STANDARD	DEFAULT	BIT	FUNCTION	TYPE
			001 - 255	Slow to fast	Linear
-	50	000		**TILT DIRECTION**	
			000 - 127	BW	Step
			128 - 255	FW	Step
41	51	000		**RESET** (Reset is activated by staying in the range for 5 sec.)	
			000 - 025	Unused range	Step
			026 - 076	Effects rest	Step
			077 - 127	Pan / Tilt reset	Step
			128 - 255	Complete reset	Step
42	52	000		**FUNCTION**	
			000 - 005	Home zero	Step
			006 - 011	LED frequency 600 Hz	Step
			012 - 017	LED frequency 1200 Hz	Step
			018 - 022	LED frequency 2000 Hz	Step
			023 - 028	LED frequency 4000 Hz	Step
			029 - 034	LED frequency 6000 Hz	Step
			035 - 040	LED frequency 25000 Hz	Step
			041 - 050	Dimmer curve 1	Step
			051 - 060	Dimmer curve 2	Step
			061 - 070	Dimmer curve 3	Step
			071 - 075	Dimmer curve 4	Step
			076 - 080	Dimmer curve 5	Step
			081 - 090	Fan mode: constant	Step
			091 - 100	Fan mode: auto	Step
			101 - 110	Fan mode: silent	Step
			111 - 120	Fan mode: theatre	Step
			121 - 125	Sunsafe OFF	Step
			126 - 130	Sunsafe ON	Step
			131 - 135	Dimmer fade Off	Step
			136 - 140	Dimmer fade On	Step
			141 - 143	CMY shortcut Off	Step
			144 - 145	CMY shortcut On	Step
			146 - 148	Fixed wheel shortcut Off	Step
			149 - 150	Fixed wheel shortcut On	Step
			151 - 155	Absolute position Off	Step
			156 - 160	Absolute position On	Step
			161 - 170	Unused range	Step
			171 - 180	P/T smooth Off	Step
			181 - 190	P/T smooth On	Step
			191 - 195	Pan/Tilt slow speed	Step
			196 - 200	Pan/Tilt medium speed	Step
			201 - 205	Pan/Tilt fast speed	Step
			206 - 210	Pan/Tilt follow spot speed	Step
			211 - 215	Zoom/Focus speed STD	Step
			216 - 220	Zoom/Focus speed boost	Step
			221 - 230	CMY normal speed	Step
			231 - 240	CMY fast speed	Step
			241 - 246	Display Off	Step
			247 - 252	Display On	Step
			253 - 255	Default recall setting	Step
43	53	000	000 - 255	Reserved	
44	54	000	000 - 255	Reserved	

IMPORTANT: TO ACTIVATE THESE FUNCTIONS, KEEP IT SELECTED FOR 3 SECONDS!

IMPORTANT: TO ACTIVATE THIS FUNCTION, SELECT THE *HOME ZERO* PRESET AND THEN ACTIVATE THE RANGE VALUE *253-255* FOR 5 SECONDS

DIMMER CURVE GRAPHIC
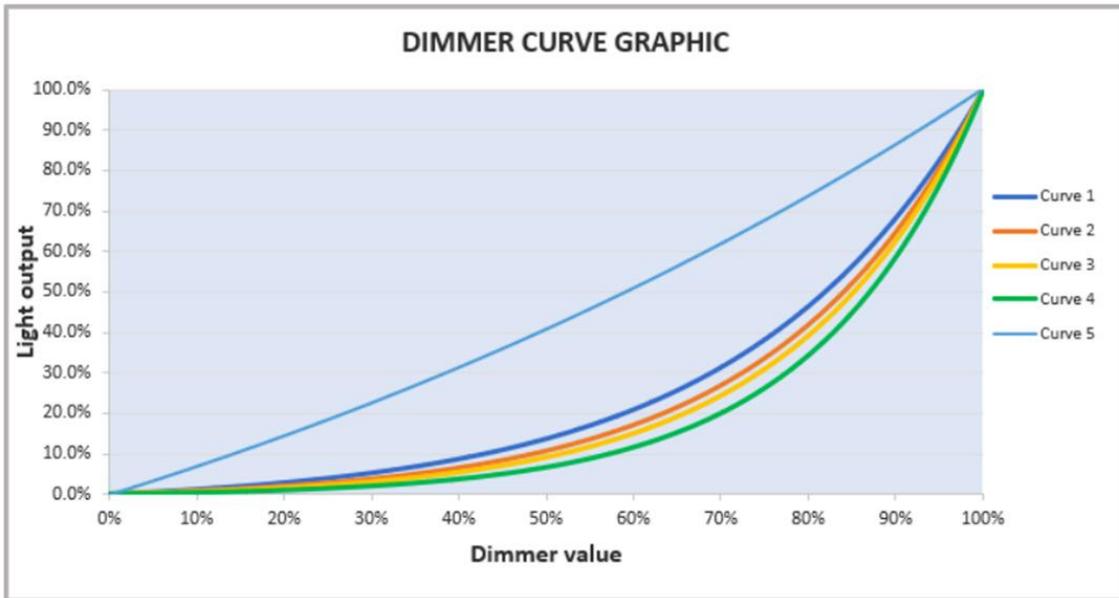
WARNINGS:

- To preserve the LED engine, it is recommended to set the Dimmer channel to 0 bit a few minutes before turning off the fixture.

- To prevent accidental breakage of the effects—which could collide with each other during transport— ensure that all DMX parameters are disabled (DMX level at 0 bit) before switching the fixture OFF.