OPERATING MODE

The Fixture has two operating modes:
Standard mode that takes 38 DMX channels.
Extended mode that takes 41 DMX channels.

Arolla Aqua LT & FS
DMX Channels

Standard Mode	Extended Mode	FUNCTION
1	1	CYAN
2	2	MAGENTA
3	3	YELLOW
4	4	CTO
5	5	COLOUR WHEEL
6	6	STROBE
7	7	DIMMER
8	8	DIMMER FINE
9	9	IRIS
10	10	STATIC GOBO WHEEL
11	11	ROTATING GOBO INSERTION
12	12	GOBO ROTATION
13	13	GOBO ROTATION FINE
14	14	PRISM INSERTION
15	15	PRISM ROTATION
16	16	ANIMATION WHEEL INSERTION
17	17	ANIMATION WHEEL ROTATION
18	18	FROST 1
19	19	FROST 2
20	20	FOCUS
-	21	FOCUS FINE
21	22	ZOOM
-	23	ZOOM FINE
22	24	FRAMING BLADE 1 MOVEMENT
23	25	FRAMING BLADE 1 SWIVELLING
24	26	FRAMING BLADE 2 MOVEMENT
25	27	FRAMING BLADE 2 SWIVELLING
26	28	FRAMING BLADE 3 MOVEMENT
27	29	FRAMING BLADE 3 SWIVELLING
28	30	FRAMING BLADE 4 MOVEMENT
29	31	FRAMING BLADE 4 SWIVELLING

Standard Mode	Extended Mode	FUNCTION
30	32	FRAMING ROTATION
31	33	FRAMING MACRO
32	34	FRAMING MACRO SPEED
33	35	PAN
34	36	PAN FINE
35	37	TILT
36	38	TILT FINE
37	39	RESET
38	40	FUNCTION
-	41	TINT

Arolla Aqua LT & FS
DMX Channels

				DMX CHART

Standard Mode	Extended Mode	Default Values	Bit Values	Function
1	**1**	000	**000 – 255**	**CYAN**
				Linear 0 – 100% from white to full
2	**2**	000	**000 – 255**	**MAGENTA**
				Linear 0 – 100% from white to full
3	**3**	000	**000 – 255**	**YELLOW**
				Linear 0 – 100% from white to full
4	**4**	000	**000 – 255**	**CTO**
				Linear 0 – 100% from white to full
5	**5**	000		**COLOUR WHEEL**
			000 – 004	White
			005 – 009	Empty + Dark Red
			010 – 014	Dark Red
			015 – 019	Dark Red + Brilliant Blue
			020 – 024	Brilliant Blue
			025 – 029	Brilliant Blue + Deep Green
			030 – 034	Deep Green
			035 – 039	Deep Green + CRI-4
			040 – 044	CRI-4
			045 – 049	CRI-4 + Dark Orange
			050 – 054	Dark Orange
			055 – 059	Dark Orange + Navy Blue
			060 – 064	Navy Blue
			065 – 069	Navy Blue + Empty
			070 – 127	CW rotation from slow to fast
			128 – 255	Linear colour insertion.

Standard Mode	Extended Mode	Default Values	Bit Values	Function
6	6	104		**STROBE**
			000 – 003	Closed
			004 – 103	Linear Strobe from slow (1 flash/sec) to fast (25 flashes/sec)
			104 – 107	Open
			108 – 207	Linear Pulse from slow to fast
			208 – 212	Open
			213 – 225	Random Strobe at low frequency
			226 – 238	Random Strobe at medium frequency
			239 – 251	Random Strobe at high frequency
			252 – 255	Open
7	7	000	000 – 255	**DIMMER**
				Linear Dimmer 0-100%
8	8	000	000 – 255	**DIMMER FINE (16 bit)**
9	9	128		**IRIS**
			000 – 127	Linear Open from Min. to Max.
			128 – 131	Open
			132 – 171	Pulse from slow to fast
			172 – 211	Pulse from slow to fast - instant opening
			212 – 251	Pulse from slow to fast - instant closing
			252 – 255	Open

Standard Mode	Extended Mode	Default Values	Bit Values	Function	
				STATIC GOBO WHEEL	
			000 - 007	Open	
			008 – 015	Gobo 1	
			016 – 023	Gobo 2	
			024 – 031	Gobo 3	
			032 – 039	Gobo 4	
			040 – 047	Gobo 5	
10	**10**	**000**	048 – 055	Gobo 6	
			056 – 063	Gobo 7	
			064 – 071	Gobo 8	
			072 – 113	Linear CCW wheel rotation from fast to slow	
			114 – 117	Stop	
			118 – 159	Linear CW wheel rotation from slow to fast	
			160 – 171	Gobo 1 shakes from slow to fast	
			172 – 183	Gobo 2 shakes from slow to fast	
			184 – 195	Gobo 3 shakes from slow to fast	
			196 – 207	Gobo 4 shakes from slow to fast	
			208 – 219	Gobo 5 shakes from slow to fast	
			220 – 231	Gobo 6 shakes from slow to fast	
			232 – 243	Gobo 7 shakes from slow to fast	
			244 – 255	Gobo 8 shakes from slow to fast	
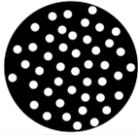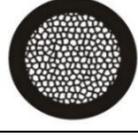
Standard Mode	Extended Mode	Default Values	Bit Values	Function	
				ROTATING GOBO WHEEL	
			000 – 005	Open	
			006 – 010	Gobo 1	
			011 – 015	Gobo 2	
			016 – 020	Gobo 3	
			021 – 025	Gobo 4	
11	11	000	026 – 030	Gobo 5	
			031 – 035	Gobo 6	
			036 – 040	Gobo 7	
			041 – 055	Gobo 1 shakes from slow to fast	
			056 – 070	Gobo 2 shakes from slow to fast	
			071 – 085	Gobo 3 shakes from slow to fast	
			086 – 100	Gobo 4 shakes from slow to fast	
			101 – 115	Gobo 5 shakes from slow to fast	
			116 – 130	Gobo 6 shakes from slow to fast	
			131 – 145	Gobo 7 shakes from slow to fast	
			146	Stop	
			147 – 200	Linearly CCW wheel rotation from slow to fast	
			201	Stop	
			202 – 255	Linearly CW wheel rotation from slow to fast	
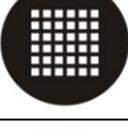
Standard Mode	Extended Mode	Default Values	Bit Values	Function
12	**12**	**000**		**GOBO ROTATION**
			000 – 127	Index 0° - 540°
			128 – 190	Linear CW rotation from fast to slow
			191 – 192	Stop
			193 – 255	Linear CCW rotation from slow to fast
13	**13**	**000**	**000 – 255**	**FINE GOBO ROTATION**
14	**14**	**000**		**PRISM**
			000 – 127	Open
			128 – 255	4 facet Prism inserted
15	**15**	**000**		**PRISM ROTATION**
			000 – 127	Index 0° - 540°
			128 – 190	Linear CW rotation from fast to slow
			191 – 192	Stop
			193 – 255	Linear CCW rotation from slow to fast
16	**16**	**000**		**ANIMATION WHEEL**
			000 – 007	Open
			008 – 255	Linear insertion
17	**17**	**000**		**ANIMATION WHEEL ROTATION**
			000 – 003	Stop
			004 – 127	Linear CCW rotation from slow to fast
			128 – 131	Stop
			132 – 255	Linear CW rotation from slow to fast
18	**18**	**000**	**000 – 255**	**LIGHT FROST**
19	**19**	**000**	**000 – 255**	**HEAVY FROST**
20	**20**	**000**	**000 – 255**	**FOCUS**
-	**21**	**000**	**000 – 255**	**FOCUS FINE**
21	**22**	**000**	**000 – 255**	**ZOOM**
				Linear from narrow to wide
-	**23**	**000**	**000 – 255**	**ZOOM FINE**

Standard Mode	Extended Mode	Default Values	Bit Values	Function
22	24	000	000 – 255	**BLADE 1 - Linear Insertion**
23	25	128		**BLADE 1 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
24	26	000	000 – 255	**BLADE 2 - Linear Insertion**
25	27	128		**BLADE 2 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
26	28	000	000 – 255	**BLADE 3 - Linear Insertion**
27	29	128		**BLADE 3 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
28	30	000	000 – 255	**BLADE 4 - Linear Insertion**
29	31	128		**BLADE 4 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
30	32	128		**FRAMING ROTATION**
			000 – 127	Linear rotation CCW
			128	Middle
			129 – 255	Linear rotation CW

Standard Mode	Extended Mode	Default Values	Bit Values	Function
				FRAMING MACRO
			000 – 003	OFF
			004 – 011	Macro 1
			012 – 018	Macro 2
			019 – 025	Macro 3
			026 – 032	Macro 4
			033 – 039	Macro 5
			040 – 047	Macro 6
			048 – 054	Macro 7
			055 – 061	Macro 8
			062 – 068	Macro 9
			069 – 075	Macro 10
			076 – 082	Macro 11
			083 – 090	Macro 12
			091 – 097	Macro 13
			098 – 104	Macro 14
			105 – 111	Macro 15
31	33	000	112 – 118	Macro 16
			119 – 125	Macro 17
			126 – 133	Macro 18
			134 – 140	Macro 19
			141 – 147	Macro 20
			148 – 154	Macro 21
			155 – 161	Macro 22
			162 – 168	Macro 23
			169 – 176	Macro 24
			177 – 183	Macro 25
			184 – 190	Macro 26
			191 – 197	Macro 27
			198 – 204	Macro 28
			205 – 211	Macro 29
			212 – 219	Macro 30
			220 – 226	Macro 31
			227 – 233	Macro 32
			234 – 240	Macro 33
			241 – 247	Macro 34
			248 – 255	Macro 35
32	34	000	000 – 255	**FRAMING MACRO SPEED**
				Macro Speed from Slow to Fast

Standard Mode	Extended Mode	Default Values	Bit Values	Function
33	**35**	**128**	000 – 255	**PAN**
34	**36**	**000**	000 – 255	**PAN FINE**
35	**37**	**128**	000 – 255	**TILT**
36	**38**	**000**	000 – 255	**TILT FINE**
37	**39**	**000**		**RESET** The reset is activated staying in the range for 5 seconds
			000 – 025	Unused range
			026 – 076	Effects reset
			077 – 127	Pan / Tilt reset
			128 – 255	Complete fixture reset

Standard Mode	Extended Mode	Default Values	Bit Values	Function	
				FUNCTION	
38	**40**	**000**	000 – 005	Unused range	**IMPORTANT: Functions activated staying in the necessary level for 3 seconds**
			006 – 011	Led Frequency 600Hz	
			012 – 017	Led Frequency 1200Hz	
			018 – 022	Led Frequency 2000Hz	
			023 – 028	Led Frequency 4000Hz	
			029 – 034	Led Frequency 6000Hz	
			035 – 040	Led Frequency 20000Hz (**Default**)	
			041 – 050	Dimmer curve 1 (**Default**)	
			051 – 060	Dimmer curve 2	
			061 – 070	Dimmer curve 3	
			071 – 075	Dimmer curve 4	
			076 – 080	Dimmer curve 5	
			081 – 090	Fan mode: Constant	
			091 – 100	Fan mode: Auto (**Default**)	
			101 – 110	Fan mode: SLN	
			111 – 120	Fan mode: Theatre	
			121 – 125	Sunsafe OFF	
			126 – 130	Sunsafe ON (**Default**)	
			131 – 135	Dimmer Fade Off	
			136 – 140	Dimmer Fade On (**Deafult**)	
			141 – 160	Unused range	
			161 – 165	P/T Disable Off (**Default**)	
			166 – 170	P/T Disable On	
			171 – 180	P/T Smooth OFF	
			181 – 190	P/T Smooth ON (**Default**)	
			191 – 195	Pan/Tilt Slow Speed	
			196 – 200	Pan/Tilt Medium Speed	
			201 – 205	Pan/Tilt Fast Speed (**Default**)	
			206 – 210	Pan/Tilt Follow Spot Speed	
			211 – 215	Zoom/Focus Speed STD (**Default**)	
			216 – 220	Zoom/Focus Speed Boost	
			221 – 230	CMY Normal speed	
			231 – 240	CMY Fast speed (**Default**)	
			241 – 246	Display OFF (**Default**)	
			247 – 252	Display ON	
			253 – 255	Default Recall setting **IMPORTANT: This function is activated passing through the "Unused range" (000-005) and stay in the range (253-255) for 5 seconds.**	

Standard Mode	Extended Mode	Default Values	Bit Values	Function
-	**41**	**000**		**TINT**
			000	No filter
			001 – 126	Minus Half Green → Neutral
			127 – 128	Neutral Filter
			129 – 255	Neutral → Plus Half Green

DIMMER CURVE GRAPHIC
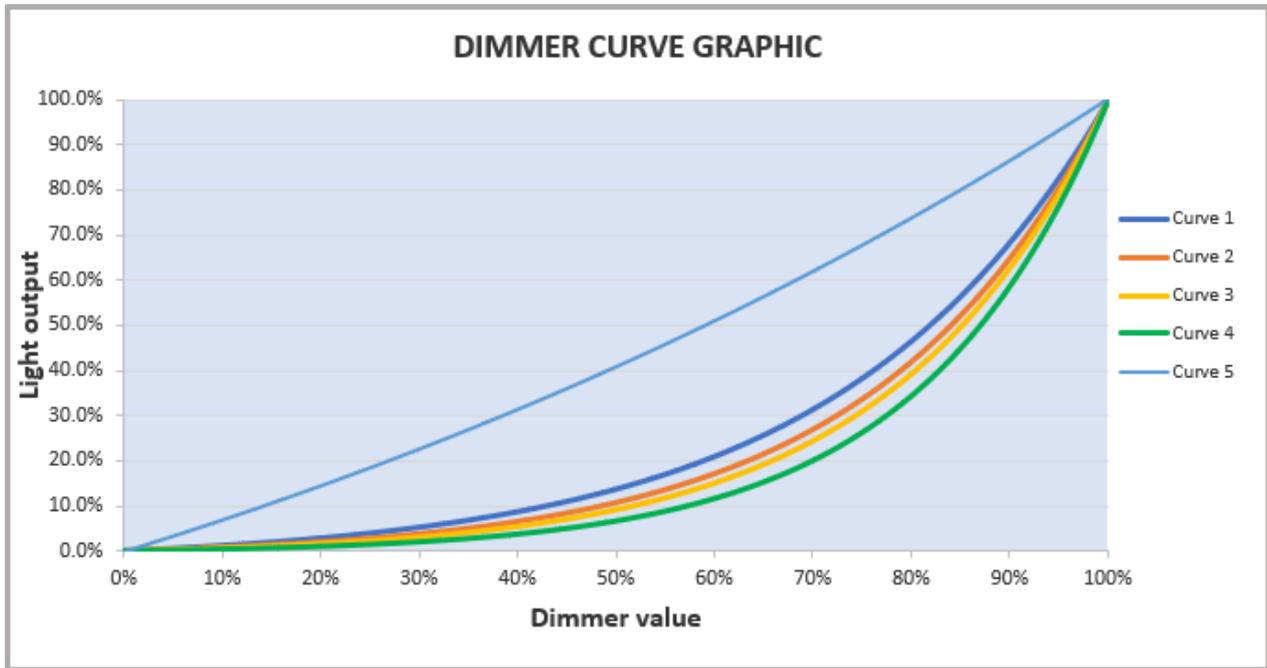
IMPORTANT NOTES
To preserve the LED engine, it is recommended to set the Dimmer channel @ 0bit a few minutes before turning off the fixture.
To prevent accidental breakage of the effects, which could collide with each other's during transport, before switching the fixture OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).