



OPERATING MODE

The Fixture has two operating modes:

Standard mode that takes 38 DMX channels.

Extended mode that takes 41 DMX channels (Available since firmware version V1.7).

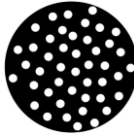
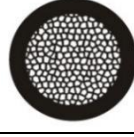
Standard Mode	Extended Mode	FUNCTION
1	1	CYAN
2	2	MAGENTA
3	3	YELLOW
4	4	CTO
5	5	COLOUR WHEEL
6	6	STROBE
7	7	DIMMER
8	8	DIMMER FINE
9	9	IRIS
10	10	STATIC GOBO WHEEL
11	11	ROTATING GOBO INSERTION
12	12	GOBO ROTATION
13	13	GOBO ROTATION FINE
14	14	PRISM INSERTION
15	15	PRISM ROTATION
16	16	ANIMATION WHEEL 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

<i>Standard Mode</i>	<i>Extended Mode</i>	<i>FUNCTION</i>
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

DMX CHART

Standard Mode	Extended Mode	Bit Values	Function
1	1	000 – 255	CYAN
			Linear 0 – 100% from white to full (Colour Mixing → CMY)
			Linear 0 – 100% from full to white (Colour Mixing → RGB)
2	2	000 – 255	MAGENTA
			Linear 0 – 100% from white to full (Colour Mixing → CMY)
			Linear 0 – 100% from full to white (Colour Mixing → RGB)
3	3	000 – 255	YELLOW
			Linear 0 – 100% from white to full (Colour Mixing → CMY)
			Linear 0 – 100% from full to white (Colour Mixing → RGB)
4	5	000 – 255	CTO
			Linear 0 – 100% from white to full
5	5		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	Bit Values	Function
6	6		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 – 255	DIMMER
			Linear Dimmer 0-100%
8	8	000 – 255	DIMMER FINE (16 bit)
9	9		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	Bit Values	Function	
10	10		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	
		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	Bit Values	Function	
11	11		ROTATING GOBO WHEEL	
		000 – 005	Open	
		006 – 010	Gobo 1	
		011 – 015	Gobo 2	
		016 – 020	Gobo 3	
		021 – 025	Gobo 4	
		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 – 199	Linearly CW wheel rotation from fast to slow	
		200 – 201	Stop	
		202 – 255	Linearly CCW wheel rotation from slow to fast	

Standard Mode	Extended Mode	Bit Values	Function
12	12		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 – 255	FINE GOBO ROTATION
14	14		PRISM
		000 – 127	Open
		128 – 255	4 facet Prism inserted
15	15		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		ANIMATION WHEEL
		000 – 007	Open
		008 – 255	Linear insertion
17	17		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 – 255	LIGHT FROST
19	19	000 – 255	HEAVY FROST
20	20	000 – 255	FOCUS
-	21	000 – 255	FOCUS FINE
21	22	000 – 255	ZOOM Linear wide to narrow
-	23	000 – 255	ZOOM FINE
22	24	000 – 255	BLADE 1 - Linear Insertion
23	25		BLADE 1 - Linear Swivelling
		000 – 126	Swivelling from - 25° to 0°
		127 – 128	0° Default
		129 – 255	Swivelling from 0° to +25°
24	26	000 – 255	BLADE 2 - Linear Insertion
25	27		BLADE 2 - Linear Swivelling
		000 – 126	Swivelling from - 25° to 0°
		127 – 128	0° Default
		129 – 255	Swivelling from 0° to +25°

Standard Mode	Extended Mode	Bit Values	Function
26	28	000 – 255	BLADE 3 - Linear Insertion
27	29		BLADE 3 - Linear Swivelling
		000 – 126	Swivelling from - 25° to 0°
		127 – 128	0° Default
		129 – 255	Swivelling from 0° to +25°
28	30	000 – 255	BLADE 4 - Linear Insertion
29	31	000 – 255	BLADE 4 - Linear Swivelling
		000 – 127	Swivelling from - 25° to 0°
		127 – 128	0° Default
		129 – 255	Swivelling from 0° to +25°
30	32		FRAMING ROTATION
		000 – 127	Linear rotation CCW
		127 – 128	Middle
		129 – 255	Linear rotation CW

Standard Mode	Extended Mode	Bit Values	Function
31	33		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
		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 – 255	FRAMING MACRO SPEED Macro Speed from Slow to Fast
33	35	000 – 255	PAN CCW 0° - 540° (Invert Pan: On)
34	36	000 – 255	PAN FINE
35	37	000 – 255	TILT
36	38	000 – 255	TILT FINE

Standard Mode	Extended Mode	Bit Values	Function
37	39		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
38	40		FUNCTION
		000 – 005	Unused range
		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	NO function
		111 – 120	Fan mode: Theatre
		121 – 125	Sunsafe OFF (Default)
		126 – 130	Sunsafe ON
		131 – 170	Unused range
		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
		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.

IMPORTANT:
Functions activated staying in the necessary level for 3 seconds

Standard Mode	Extended Mode	Bit Values	Function
-	41		TINT
		000 – 000	No filter
		001 – 127	Minus Half Green → No filter
		128 – 255	No filter → Plus Half green

IMPORTANT NOTE
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).

