



OPERATING MODE

Arolla Profile MP has two different operating modes.

Standard mode that takes 37 DMX parameters.

Extended mode that takes 39 DMX parameters (Available from firmware version V5.4).

DMX PROTOCOL

<i>STANDARD Mode</i>	<i>EXTENDED Mode</i>	<i>FUNCTION</i>
1	1	CYAN
2	2	MAGENTA
3	3	YELLOW
4	4	CTO
5	5	COLOR FUNCTION
6	6	COLOR WHEEL
7	7	STROBE
8	8	DIMMER
9	9	DIMMER FINE
10	10	IRIS
11	11	ROTATING GOBO INSERTION
12	12	GOBO ROTATION
13	13	GOBO ROTATION FINE
14	14	PRISM INSERTION
15	15	PRISM ROTATION
16	16	EFFECT WHEEL INSERTION
17	17	EFFECT WHEEL ROTATION
18	18	FROST
19	19	FOCUS
-	20	FOCUS FINE
20	21	ZOOM
-	22	ZOOM FINE
21	23	FRAMING BLADE 1 MOVEMENT
22	24	FRAMING BLADE 1 SWIVELLING
23	25	FRAMING BLADE 2 MOVEMENT
24	26	FRAMING BLADE 2 SWIVELLING
25	27	FRAMING BLADE 3 MOVEMENT
26	28	FRAMING BLADE 3 SWIVELLING
27	29	FRAMING BLADE 4 MOVEMENT



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STANDARD Mode	EXTENDED Mode	FUNCTION
28	30	FRAMING BLADE 4 SWIVELLING
29	31	FRAMING ROTATION
30	32	FRAMING MACRO
31	33	FRAMING MACRO SPEED
32	34	PAN
33	35	PAN FINE
34	36	TILT
35	37	TILT FINE
36	38	RESET
37	39	FUNCTION

Function details

Standard Mode	Extended Mode	Bit Values	Function
1	1	000 – 255	CYAN
			Linear 0 – 100% white to full (CMY)
			Linear 0 – 100% full to white (RGB)
2	2	000 – 255	MAGENTA
			Linear 0 – 100% white to full (CMY)
			Linear 0 – 100% full to white (RGB)
3	3	000 – 255	YELLOW
			Linear 0 – 100% white to full (CMY)
			Linear 0 – 100% full to white (RGB)
4	4	000 – 255	CTO
			Linear 0 – 100% white to CT
5	5		COLOR Function
		000 – 085	Full Colour
		086 – 170	Half Colour
		171 – 255	Linear Path



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Standard Mode	Extended Mode	Bit Values	Function
6	6		COLOR WHEEL
			FULL COLOR MODE
		000 – 009	White
		010 – 019	Dark Red
		020 – 029	Brilliant Blue
		030 – 039	Deep Green
		040 – 049	Golden Amber
		050 – 059	CRI-4
		060 – 069	Dark Orange
		070 – 079	Navy Blue
		080 – 127	CW rotation from slow to fast
		128 – 255	Linear colour insertion
			HALF COLOR MODE
		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 + Golden Amber
		040 – 044	Golden Amber
		045 – 049	Golden Amber + CRI-4
		050 – 054	CRI-4
		055 – 059	CRI-4 + Dark Orange
		060 – 064	Dark Orange
		065 – 069	Dark Orange + Navy Blue
		070 – 074	Navy Blue
		075 – 079	Navy Blue + White
		080 – 127	CW rotation from slow to fast
		128 – 255	Linear colour insertion
			LINEAR PATH
		000 – 009	White
		010 – 019	Dark Red
		020 – 029	Brilliant Blue
		030 – 039	Deep Green
		040 – 049	Golden Amber
		050 – 059	CRI-4
		060 – 069	Dark Orange
		070 – 079	Navy Blue
		080 – 127	CW rotation from slow to fast
		128 – 255	Linear colour insertion



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Standard Mode	Extended Mode	Bit Values	Function
7	7		STROBE
		000 – 003	Closed
		004 – 103	Linear Strobe slow (1 flash/sec) to fast (25 flashes/sec)
		104 – 107	Open
		108 – 207	Linear Pulse 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
8	8		DIMMER
		000 – 255	Linear Dimmer 0-100%
9	9	000 – 255	DIMMER FINE (16 bit)
10	10		IRIS
		000 – 127	Linear open Min to Max
		128 – 131	Open
		132 – 171	Pulse slow to fast
		172 – 211	Pulse slow to fast - instant opening
		212 – 251	Pulse slow to fast - instant closing
		252 – 255	Open

Standard Mode	Extended Mode	Bit Values	Function
11	11		ROTATING GOBO CHANGE
		000 – 008	Empty position
		009 – 017	Gobo 1 
		018 – 026	Gobo 2 
		027 – 035	Gobo 3 
		036 – 044	Gobo 4 
		045 – 053	Gobo 5 
		054 – 062	Gobo 6 
		063 – 071	Gobo 7 
		072 – 113	Linear CCW wheel rotation from fast to slow
		114 – 117	Stop
		118 – 159	Linear CW wheel rotation from slow to fast
		160 – 173	Gobo 1 shakes low to fast
		174 – 187	Gobo 2 shakes low to fast
		188 – 200	Gobo 3 shakes slow to fast
		201 – 214	Gobo 4 shakes slow to fast
215 – 227	Gobo 5 shakes slow to fast		
228 – 241	Gobo 6 shakes slow to fast		
242 - 255	Gobo 7 shakes slow to fast		



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Standard Mode	Extended Mode	Bit Values	Function
12	12		GOBO ROTATION
		000 – 127	Gobo indexing: 0° to 540° range
		128 – 190	Linear CW fast to slow
		191 – 192	Stop
		193 – 255	Linear CCW slow to fast
13	13		FINE GOBO ROTATION
		000 – 255	Fine CCW gobo Indexing
14	14		4 Facet PRISM INSERTION
		000 – 127	Prism Out
		128 – 255	Prism In
15	15		PRISM ROTATION
		000 – 127	Prism indexing: 0° to 540° range
		128 – 190	Continuous CW fast to slow
		191 – 192	Stop
		193 – 255	Continuous CCW slow to fast
16	16		EFFECT WHEEL INSERTION
		000 – 007	Effect wheel Out
		008 – 255	Effect wheel In
17	17		EFFECT WHEEL ROTATION
		000 – 004	Stop
		005 – 127	CW linear slow to fast
		128 – 131	Stop
		132 – 255	CCW linear slow fast
18	18		FROST
		000 – 255	Linear Frost



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Standard Mode	Extended Mode	Bit Values	Function
19	19		FOCUS
		000 – 255	Linear Focus
-	20		FOCUS Fine
		000 – 255	Focus fine
20	21		ZOOM
		000 – 255	Linear narrow 000 – wide 255 (Default setting 128 Bit)
-	22		ZOOM Fine
		000 – 255	Zoom fine
21	23	000 – 255	BLADE 1 - Linear Insertion
22	24		BLADE 1 SWIVELLING
		000 – 127	Swivelling from -25 degrees to 0 degrees
		128	0 degrees
		129 – 255	Swivelling from 0 degrees to +25 degrees
23	25	000 – 255	BLADE 2 - Linear Insertion
24	26		BLADE 2 SWIVELLING
		000 – 127	Swivelling from -25 degrees to 0 degrees
		128	0 degrees
		129 – 255	Swivelling from 0 degrees to +25 degrees
25	27	000 – 255	BLADE 3 - Linear Insertion
26	28		BLADE 3 SWIVELLING
		000 – 127	Swivelling from -25 degrees to 0 degrees
		128	0 degrees
		129 – 255	Swivelling from 0 degrees to +25 degrees
27	29	000 – 255	BLADE 4 - Linear Insertion
28	30		BLADE 4 SWIVELLING
		000 – 127	Swivelling from -25 degrees to 0 degrees
		128	0 degrees
		129 – 255	Swivelling from 0 degrees to +25 degrees
29	31		FRAMING ROTATION
		000 – 127	Linear rotation CCW
		128	Middle
		129-255	Linear rotation CW



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Standard Mode	Extended Mode	Bit Values	Function
30	32		FRAMING MACRO EFFECTS
		000 – 003	Macro 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		
31	33		FRAMING MACRO EFFECTS SPEED
		000 – 255	Macro Speed Slow to Fast
32	34		PAN
		000 – 255	Pan CCW 0° to 540° (default setting)
33	35	000 – 255	PAN FINE

Standard Mode	Extended Mode	Bit Values	Function
34	36	000 – 255	TILT CW 0° to 270° (default setting)
35	37	000 – 255	TILT FINE
36	38		RESET: The reset sequence 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
37	39		FUNCTION
		000 – 020	Unused range
		021 – 030	P/T Smooth OFF
		031 – 040	P/T Smooth ON (Default)
		041 – 050	Dimmer curve 1
		051 – 060	Dimmer curve 2
		061 – 070	Dimmer curve 3
		071 – 080	Dimmer curve 4
		081 – 090	Fan mode Auto (Default)
		091 – 095	Fan mode SLN
		096 – 100	Fan mode Theatre
		101 – 105	Fan mode RNR
		106 – 110	Fan mode Standard
		111 – 120	Pan/Tilt Slow speed
		121 – 130	Pan/Tilt Medium speed
		131 – 140	Pan/Tilt Fast speed (Default)
		141 – 150	CMY Normal speed
		151 – 160	CMY Fast speed (Default)
		161 – 170	Display OFF (Default)
		171 – 180	Display ON
		181 – 190	PWM Frequency 600Hz
		191 – 200	PWM Frequency 1200Hz
		201 – 210	PWM Frequency 2000Hz
		211 – 220	PWM Frequency 4000Hz
221 – 230	PWM Frequency 6000Hz		
231 – 240	PWM Frequency 20000Hz (Default)		
241 – 250	Pan/Tilt Follow Spot		
251 – 255	Unused range		
		IMPORTANT: The functions are activated/selected staying in the necessary range for 3 seconds	

IMPORTANT NOTE

To ensure reliable operation of the effects, it is suggested to keep the light source of the projector switch-on for few minutes before moving the effects. Claypaky use a high-performance lubricant that is designed to work within the high temperature environment in Claypaky's modern moving light fixtures. In cold environments, it may take several minutes for the lubricant to reach optimum fluidity and all functions to reach optimum performance.

To preserve the LED engine, it is suggested 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 projector OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).

