Arolla Profile HP

Arolla Profile HP has two different operating modes.
Standard mode that takes 39 DMX parameters.
Extended mode that takes 41 DMX parameters (Available from firmware version V5.5).

DMX PROTOCOL

STANDARD Mode	EXTENDED Mode	FUNCTION
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	STATIC GOBO INSERTION
12	12	ROTATING GOBO INSERTION
13	13	GOBO ROTATION
14	14	GOBO ROTATION FINE
15	15	PRISM INSERTION
16	16	PRISM ROTATION
17	17	ANIMATION WHEEL INSERTION
18	18	ANIMATION WHEEL ROTATION
19	19	FROST 1 INSERTION
20	20	FROST 2 INSERTION
21	21	FOCUS
-	22	FOCUS FINE
22	23	ZOOM
-	24	ZOOM FINE
23	25	FRAMING BLADE 1 MOVEMENT
24	26	FRAMING BLADE 1 SWIVELLING
25	27	FRAMING BLADE 2 MOVEMENT
26	28	FRAMING BLADE 2 SWIVELLING
27	29	FRAMING BLADE 3 MOVEMENT

STANDARD Mode	EXTENDED Mode	FUNCTION
28	30	FRAMING BLADE 3 SWIVELLING
29	31	FRAMING BLADE 4 MOVEMENT
30	32	FRAMING BLADE 4 SWIVELLING
31	33	FRAMING ROTATION
32	34	FRAMING MACRO
33	35	FRAMING MACRO SPEED
34	36	PAN
35	37	PAN FINE
36	38	TILT
37	39	TILT FINE
38	40	RESET
39	41	FUNCTION

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function		
1	**1**	**000**	**000 – 255**	**CYAN**		
				Linear 0 – 100% from white to full (Colour Mixing		
				Linear 0 – 100% from full to white (Colour Mixing		
2	**2**	**000**	**000 – 255**	**MAGENTA**		
				Linear 0 – 100% from white to full (Colour Mixing		
				Linear 0 – 100% from full to white (Colour Mixing		
3	**3**	**000**	**000 – 255**	**YELLOW**		
				Linear 0 – 100% from white to full (Colour Mixing		
				Linear 0 – 100% from full to white (Colour Mixing		
4	**4**	**000**	**000 – 255**	**CTO**		
				Linear 0 – 100% from white to CT		
5	**5**	**000**		**COLOUR FUNCTION**		
			000 – 085	Full Colour		
			086 – 170	Half Colour		
			171 – 255	Linear Path		

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
				COLOR WHEEL
				FULL COLOR
			000 – 009	White
			010 – 019	Dark Red
			020 – 029	Brilliant Blue
			030 – 039	Deep Green
			040 – 049	CRI-4
			050 – 059	Dark Orange
			060 – 069	Navy Blue
			070 – 127	CW rotation slow to fast
			128 – 255	Linear color insertion.
				HALF COLOR
			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
6	**6**	000	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 color insertion.
				LINEAR PATH
			000 – 009	White
			010 – 019	Dark Red
			020 – 029	Brilliant Blue
			030 – 039	Deep Green
			040 – 049	CRI-4
			050 – 059	Dark Orange
			060 – 064	Navy Blue
			065 – 069	Whit
			070 – 127	CW rotation from slow to fast
			128 – 255	Linear color insertion

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
7	**7**	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
8	**8**	000	000 – 255	**DIMMER**
				Linear Dimmer 0-100%
9	**9**	000	000 – 255	**DIMMER FINE (16 bit)**
10	**10**	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	DMX Default value	Bit Values	Function
				STATIC GOBO WHEEL
			000 - 008	Open
			009 – 017	Gobo 1
			018 – 026	Gobo 2
			027 – 035	Gobo 3
			036 – 044	Gobo 4
11	**11**	**000**	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 from slow to fast
			174 – 187	Gobo 2 shakes from slow to fast
			188 – 200	Gobo 3 shakes from slow to fast
			201 – 214	Gobo 4 shakes from slow to fast
			215 – 227	Gobo 5 shakes from slow to fast
			228 - 241	Gobo 6 shakes from slow to fast
			242 - 255	Gobo 7 shakes from slow to fast

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
				ROTATING GOBO WHEEL
			000 – 010	Open
			011 – 020	Gobo 1
			021 – 030	Gobo 2
			031 – 040	Gobo 3
			041 – 050	Gobo 4
12	**12**	**000**	051 – 060	Gobo 5
			061 – 071	Gobo 6
			072 – 113	Linearly CW wheel rotation from fast to slow
			114 – 117	Stop
			118 – 159	Linearly CCW wheel rotation from slow to fast
			160 – 175	Gobo 1 shakes from slow to fast
			176 – 191	Gobo 2 shakes from slow to fast
			192 – 207	Gobo 3 shakes from slow to fast
			208 – 223	Gobo 4 shakes from slow to fast
			224 – 239	Gobo 5 shakes from slow to fast
			240 -- 255	Gobo 6 shakes from slow to fast
				GOBO ROTATION
			000 – 127	Index 0° - 540
13	**13**	**000**	128 – 190	Linear CW rotation from fast to slow
			191 – 192	Stop
			193 – 255	Linear CCW rotation from slow to fast
14	**14**	**000**	000 – 255	**FINE GOBO ROTATION**

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
15	**15**	000		**PRISM**
			000 – 127	Open
			128 – 255	4 facet Prism inserted
16	**16**	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
17	**17**	000		**ANIMATION WHEEL**
			000 – 007	Open
			008 – 255	Linear insertion
18	**18**	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
19	**19**	000	000 – 255	**HEAVY FROST**
20	**20**	000	000 – 255	**LIGHT FROST**
21	**21**	000	000 – 255	**FOCUS**
-	**22**	000	000 – 255	**FOCUS FINE**
22	**23**	000	000 – 255	**ZOOM** Linear - narrow 000 wide 255 beam angle - 128 default setting
-	**24**	000	000 – 255	**ZOOM FINE**
23	**25**	000	000 – 255	**BLADE 1 - Linear Insertion**
24	**26**	128		**BLADE 1 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
25	**27**	000	000 – 255	**BLADE 2 - Linear Insertion**
26	**28**	128		**BLADE 2 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
27	**29**	000	000 – 255	**BLADE 3 - Linear Insertion**
28	**30**	128		**BLADE 3 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
29	**31**	000	000 – 255	**BLADE 4 - Linear Insertion**

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
30	**32**	128		**BLADE 4 - Linear Swivelling**
			000 – 127	Swivelling from - 25° to 0°
			128	0° Default
			129 – 255	Swivelling from 0° to +25°
30	**33**	128		**FRAMING ROTATION**
			000 – 127	Linear rotation CCW
			128	Middle
			129 – 255	Linear rotation CW
32	**34**	000		**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

Standard Mode	Extended Mode	DMX Default value	Bit Values	Function
33	35	000	000 – 255	**FRAMING MACRO SPEED**
				Macro Speed from Slow to Fast
34	36	128	000 – 255	**PAN**
				CCW Pan 0° - 540° (Invert Pan: On)
35	37	000	000 – 255	**PAN FINE**
36	38	128	000 – 255	**TILT**
37	39	000	000 – 255	**TILT FINE**
38	40	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	DMX Default value	Bit Values	Function	
				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**)	**Details at page 13**
			051 – 060	Dimmer curve 2	
			061 – 070	Dimmer curve 3	
			071 – 075	Dimmer curve 4	
			076 – 080	Dimmer curve 5	
			081 – 090	Fan mode: 1200W Constant	
			091 – 100	Fan mode: 1200W Auto (**Default**)	
			101 – 110	Fan mode: 800W Constant	
39	**41**	**000**	111 – 120	Fan mode: 800W Auto	
			121 – 130	Fan mode: 600W Constant	
			131 – 140	Fan mode: 600W Auto	
			141 – 150	Fan mode: SLN	
			151 – 160	Fan mode: Theatre	
			161 – 170	P/T Follow Spot	
			171 – 180	P/T Smooth Off	
			181 – 190	P/T Smooth On (**Default**)	
			191 – 200	Pan/Tilt Slow speed	
			201 – 210	Pan/Tilt Medium speed	
			211 – 220	Pan/Tilt Fast speed (**Default**)	
			221 – 230	CMY Normal speed	
			231 – 240	CMY Fast speed (**Default**)	
			241 – 246	Display OFF (**Default**)	
			247 – 252	Display ON	
			253 – 255	Default Function Recall	
				IMPORTANT: Functions activated holding down for 3 seconds	

IMPORTANT NOTE
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 fixture OFF, check that all the DMX parameters have been excluded (DMX level @0 bit).

DIMMER CURVE GRAPHIC

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