

# Arolla Profile HP DMX chart

01/2023



## **OPERATING MODE**

The Fixture has one single operating mode that take 39 DMX channels.

# Arolla Profile HP

## DMX chart

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<b>DMX Parameter number</b>	<b>FUNCTION</b>
<b>1</b>	CYAN
<b>2</b>	MAGENTA
<b>3</b>	YELLOW
<b>4</b>	CTO
<b>5</b>	COLOR FUNCTION
<b>6</b>	COLOR WHEEL
<b>7</b>	STROBE
<b>8</b>	DIMMER
<b>9</b>	DIMMER FINE
<b>10</b>	IRIS
<b>11</b>	STATIC GOBO WHEEL
<b>12</b>	ROTATING GOBO INSERTION
<b>13</b>	GOBO ROTATION
<b>14</b>	GOBO ROTATION FINE
<b>15</b>	PRISM INSERTION
<b>16</b>	PRISM ROTATION
<b>17</b>	ANIMATION WHEEL INSERTION
<b>18</b>	ANIMATION WHEEL ROTATION
<b>19</b>	FROST 1
<b>20</b>	FROST 2

<b>DMX Parameter number</b>	<b>FUNCTION</b>
<b>21</b>	FOCUS
<b>22</b>	ZOOM
<b>23</b>	FRAMING BLADE 1 MOVEMENT
<b>24</b>	FRAMING BLADE 1 SWIVELLING
<b>25</b>	FRAMING BLADE 2 MOVEMENT
<b>26</b>	FRAMING BLADE 2 SWIVELLING
<b>27</b>	FRAMING BLADE 3 MOVEMENT
<b>28</b>	FRAMING BLADE 3 SWIVELLING
<b>29</b>	FRAMING BLADE 4 MOVEMENT
<b>30</b>	FRAMING BLADE 4 SWIVELLING
<b>31</b>	FRAMING ROTATION
<b>32</b>	FRAMING MACRO
<b>33</b>	FRAMING MACRO SPEED
<b>34</b>	PAN
<b>35</b>	PAN FINE
<b>36</b>	TILT
<b>37</b>	TILT FINE
<b>38</b>	RESET
<b>39</b>	FUNCTION
<b>-</b>	-

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<b>DMX Parameter</b>	<b>Bit Values</b>	<b>Function</b>
<b>1</b>	<b>000 – 255</b>	<b>CYAN</b> Linear 0 – 100% from white to full (Colour Mixing → CMY) Linear 0 – 100% from full to white (Colour Mixing → RGB)
<b>2</b>	<b>000 – 255</b>	<b>MAGENTA</b> Linear 0 – 100% from white to full (Colour Mixing → CMY) Linear 0 – 100% from full to white (Colour Mixing → RGB)
<b>3</b>	<b>000 – 255</b>	<b>YELLOW</b> Linear 0 – 100% from white to full (Colour Mixing → CMY) Linear 0 – 100% from full to white (Colour Mixing → RGB)
<b>4</b>	<b>000 – 255</b>	<b>CTO</b> Linear 0 – 100% from white to full
<b>5</b>	<b>000 – 085</b> <b>086 – 170</b> <b>171 – 255</b>	<b>COLOUR Function</b> Full Colour Half Colour Linear Path








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<b>DMX Parameter</b>	<b>Bit Values</b>	<b>Function</b>
<b>6</b>		<b>COLOR WHEEL</b>
		<b>FULL COLOR (Selectable with DMX parameter number 5)</b>
	<b>000 – 009</b>	White
	<b>010 – 019</b>	Dark Red
	<b>020 – 029</b>	Brilliant Blue
	<b>030 – 039</b>	Deep Green
	<b>040 – 049</b>	CRI-4
	<b>050 – 059</b>	Dark Orange
	<b>060 – 069</b>	Navy Blue
	<b>070 – 127</b>	CW rotation from slow to fast
	<b>128 – 255</b>	Linear color insertion.
		<b>HALF COLOR (Selectable with DMX parameter number 5)</b>
	<b>000 – 004</b>	White
	<b>005 – 009</b>	Empty + Dark Red
	<b>010 – 014</b>	Dark Red
	<b>015 – 019</b>	Dark Red + Brilliant Blue
	<b>020 – 024</b>	Brilliant Blue
	<b>025 – 029</b>	Brilliant Blue + Deep Green
<b>030 – 034</b>	Deep Green	
<b>035 – 039</b>	Deep Green + CRI-4	
<b>040 – 044</b>	CRI-4	
<b>045 – 049</b>	CRI-4 + Dark Orange	
<b>050 – 054</b>	Dark Orange	
<b>055 – 059</b>	Dark Orange + Navy Blue	
<b>060 – 064</b>	Navy Blue	
<b>065 – 069</b>	Navy Blue + Empty	
<b>070 – 127</b>	CW rotation from slow to fast	
<b>128 – 255</b>	Linear color insertion.	
	<b>LINEAR PATH (Selectable with DMX parameter number 5)</b>	
<b>0</b>	White	
<b>010</b>	Dark Red	
<b>020</b>	Brilliant Blue	
<b>030</b>	Deep Green	
<b>040</b>	CRI-4	
<b>050</b>	Dark Orange	
<b>060</b>	Navy Blue	
<b>069</b>	White	
<b>070 – 127</b>	CW rotation from slow to fast	
<b>128 – 255</b>	Linear color insertion	







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<i>DMX Parameter</i>	<i>Bit Values</i>	<i>Function</i>
<b>7</b>		<b>STROBE</b>
	<b>000 – 003</b>	Closed
	<b>004 – 103</b>	Linear Strobe from slow (1 flash/sec) to fast (25 flashes/sec)
	<b>104 – 107</b>	Open
	<b>108 – 207</b>	Linear Pulse from slow to fast
	<b>208 – 212</b>	Open
	<b>213 – 225</b>	Random Strobe at low frequency
	<b>226 – 238</b>	Random Strobe at medium frequency
	<b>239 – 251</b>	Random Strobe at high frequency
	<b>252 – 255</b>	Open
<b>8</b>	<b>000 – 255</b>	<b>DIMMER</b> Linear Dimmer 0-100%
<b>9</b>	<b>000 – 255</b>	<b>DIMMER FINE (16 bit)</b>
<b>10</b>		<b>IRIS</b>
	<b>000 – 127</b>	Linear Open from Min. to Max.
	<b>128 – 131</b>	Open
	<b>132 – 171</b>	Pulse from slow to fast
	<b>172 – 211</b>	Pulse from slow to fast - instant opening
	<b>212 – 251</b>	Pulse from slow to fast - instant closing
		<b>252 – 255</b>

DMX Parameter	Bit Values	Function
<b>11</b>		<b>STATIC GOBO WHEEL</b>
	<b>000 - 008</b>	Open
	<b>009 - 017</b>	Gobo 1 
	<b>018 - 026</b>	Gobo 2 
	<b>027 - 035</b>	Gobo 3 
	<b>036 - 044</b>	Gobo 4 
	<b>045 - 053</b>	Gobo 5 
	<b>054 - 062</b>	Gobo 6 
	<b>063 - 071</b>	Gobo 7 
	<b>072 - 113</b>	Linear CCW wheel rotation from fast to slow
	<b>114 - 117</b>	Stop
	<b>118 - 159</b>	Linear CW wheel rotation from slow to fast
	<b>160 - 173</b>	Gobo 1 shakes from slow to fast
	<b>174 - 187</b>	Gobo 2 shakes from slow to fast
	<b>188 - 200</b>	Gobo 3 shakes from slow to fast
	<b>201 - 214</b>	Gobo 4 shakes from slow to fast
	<b>215 - 227</b>	Gobo 5 shakes from slow to fast
	<b>228 - 241</b>	Gobo 6 shakes from slow to fast
	<b>242 - 255</b>	Gobo 7 shakes from slow to fast

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DMX Parameter	Bit Values	Function
12		<b>ROTATING GOBO WHEEL</b>
	000 – 010	Open
	011 – 020	Gobo 1 
	021 – 030	Gobo 2 
	031 – 040	Gobo 3 
	041 – 050	Gobo 4 
	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	
13		<b>GOBO ROTATION</b>
	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	

<i>DMX Parameter</i>	<i>Bit Values</i>	<i>Function</i>
<b>14</b>	<b>000 – 255</b>	<b>FINE GOBO ROTATION</b>
<b>15</b>	<b>000 – 127</b> <b>128 – 255</b>	<b>PRISM</b> Open 4 facet Prism inserted
<b>16</b>	<b>000 – 127</b> <b>128 – 190</b> <b>191 – 192</b> <b>193 – 255</b>	<b>PRISM ROTATION</b> Index 0° - 540° Linear CW rotation from fast to slow Stop Linear CCW rotation from slow to fast
<b>17</b>	<b>000 – 007</b> <b>008 – 255</b>	<b>ANIMATION WHEEL</b> Open Linear insertion
<b>18</b>	<b>000 – 003</b> <b>004 – 127</b> <b>128 – 131</b> <b>132 – 255</b>	<b>ANIMATION WHEEL ROTATION</b> Stop Linear CCW rotation from slow to fast Stop Linear CW rotation from slow to fast
<b>19</b>	<b>000 – 255</b>	<b>HEAVY FROST</b>
<b>20</b>	<b>000 – 255</b>	<b>LIGHT FROST</b>
<b>21</b>	<b>000 – 255</b>	<b>FOCUS</b>
<b>22</b>	<b>000 – 255</b>	<b>ZOOM</b> Linear from min 0 to max 255 beam angle 128 default setting
<b>23</b>	<b>000 – 255</b>	<b>BLADE 1 - Linear Insertion</b>
<b>24</b>	<b>000 – 127</b> <b>128</b> <b>129 – 255</b>	<b>BLADE 1 - Linear Swivelling</b> Swivelling from - 25° to 0° 0° Default Swivelling from 0° to +25°
<b>25</b>	<b>000 – 255</b>	<b>BLADE 2 - Linear Insertion</b>
<b>26</b>	<b>000 – 127</b> <b>128</b> <b>129 – 255</b>	<b>BLADE 2 - Linear Swivelling</b> Swivelling from - 25° to 0° 0° Default Swivelling from 0° to +25°
<b>27</b>	<b>000 – 255</b>	<b>BLADE 3 - Linear Insertion</b>
<b>28</b>		<b>BLADE 3 - Linear Swivelling</b>
	<b>000 – 127</b> <b>128</b> <b>129 – 255</b>	Swivelling from - 25° to 0° 0° Default Swivelling from 0° to +25°
<b>29</b>	<b>000 – 255</b>	<b>BLADE 4 - Linear Insertion</b>
<b>30</b>	<b>000 – 127</b> <b>128</b> <b>129 – 255</b>	<b>BLADE 4 - Linear Swivelling</b> Swivelling from - 25° to 0° 0° Default Swivelling from 0° to +25°



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<i>DMX Parameter</i>	<i>Bit Values</i>	<i>Function</i>
<b>31</b>	<b>000 – 127</b> 128 <b>129 – 255</b>	<b>FRAMING ROTATION</b> Linear rotation CCW Middle Linear rotation CW
<b>32</b>	<b>000 – 003</b> <b>004 – 011</b> <b>012 – 018</b> <b>019 – 025</b> <b>026 – 032</b> <b>033 – 039</b> <b>040 – 047</b> <b>048 – 054</b> <b>055 – 061</b> <b>062 – 068</b> <b>069 – 075</b> <b>076 – 082</b> <b>083 – 090</b> <b>091 – 097</b> <b>098 – 104</b> <b>105 – 111</b> <b>112 – 118</b> <b>119 – 125</b> <b>126 – 133</b> <b>134 – 140</b> <b>141 – 147</b> <b>148 – 154</b> <b>155 – 161</b> <b>162 – 168</b> <b>169 – 176</b> <b>177 – 183</b> <b>184 – 190</b> <b>191 – 197</b> <b>198 – 204</b> <b>205 – 211</b> <b>212 – 219</b> <b>220 – 226</b> <b>227 – 233</b> <b>234 – 240</b> <b>241 – 247</b> <b>248 – 255</b>	<b>FRAMING MACRO</b> OFF Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16 Macro 17 Macro 18 Macro 19 Macro 20 Macro 21 Macro 22 Macro 23 Macro 24 Macro 25 Macro 26 Macro 27 Macro 28 Macro 29 Macro 30 Macro 31 Macro 32 Macro 33 Macro 34 Macro 35
<b>33</b>	<b>000 – 255</b>	<b>FRAMING MACRO SPEED</b> Macro Speed from Slow to Fast
<b>34</b>	<b>000 – 255</b>	<b>PAN</b> CCW Pan 0° - 540° (Invert Pan: On)
<b>35</b>	<b>000 – 255</b>	<b>PAN FINE</b>

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DMX Parameter	Bit Values	Function	
<b>36</b>	000 – 255	TILT	
<b>37</b>	000 – 255	TILT FINE	
<b>38</b>		<b>RESET</b> 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	
<b>39</b>		<b>FUNCTION</b>	
	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 ( <b>Default</b> )	
	041 – 050	Dimmer curve 1 ( <b>Default</b> )	<b>Details at page 11</b>
	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 ( <b>Default</b> )	
	101 – 110	Fan mode: 800W Constant	
	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	Unused range	
	171 – 180	P/T Smooth Off	
	181 – 190	P/T Smooth On ( <b>Default</b> )	
	191 – 200	Pan/Tilt Slow speed	
	201 – 210	Pan/Tilt Medium speed	
	211 – 220	Pan/Tilt Fast speed ( <b>Default</b> )	
	221 – 230	CMY Normal speed	
	231 – 240	CMY Fast speed ( <b>Default</b> )	
	241 – 246	Display OFF ( <b>Default</b> )	
	247 – 252	Display ON	
	253 – 255	Unused range	
		<b>IMPORTANT: Functions activated holding down for 3 seconds</b>	

## 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).

