DMX CHART

Astera Pluto Fresnel

Model AF80 · Prepared by Krank'd · krankd.com.au

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1: RGB | 2: RGBW | 3: RGBAW | 4: DIM RGB | 5: DIM RGBW | 6: DIM RGBAW | 7: RGB CCT DIM IND | 169: D16 CCT GM C XY

Profile 1: RGB (Pixel = 1; Strobe = Off)

1: RGB	VALUE	FUNCTION
1	000-255	**Intensity Red** · Intensity Red (0% → 100%)
2	000-255	**Intensity Green** · Intensity Green (0% → 100%)
3	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)

Profile 2: RGBW (Pixel = 1; Strobe = Off)

2: RGBW	VALUE	FUNCTION
1	000-255	**Intensity Red** · Intensity Red (0% → 100%)
2	000-255	**Intensity Green** · Intensity Green (0% → 100%)
3	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)
4	000-255	**Intensity Emulated White** · Intensity Emulated White (0% → 100%)

Profile 3: RGBAW (Pixel = 1; Strobe = Off)

3: RGBAW	VALUE	FUNCTION
1	000-255	**Intensity Red** · Intensity Red (0% → 100%)
2	000-255	**Intensity Green** · Intensity Green (0% → 100%)
3	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)
4	000-255	**Intensity Amber** · Intensity Amber (0% → 100%)
5	000-255	**Intensity Emulated White** · Intensity Emulated White (0% → 100%)

Profile 4: DIM RGB (Pixel = 1; Strobe = Off)

4: DIM RGB	VALUE	FUNCTION
1	000-255	**Dimmer** · Dimmer (closed → open)
2	000-255	**Intensity Red** · Intensity Red (0% → 100%)
3	000-255	**Intensity Green** · Intensity Green (0% → 100%)
4	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)

Profile 5: DIM RGBW (Pixel = 1; Strobe = Off)

5: DIM RGBW	VALUE	FUNCTION
1	000-255	**Dimmer** · Dimmer (closed → open)
2	000-255	**Intensity Red** · Intensity Red (0% → 100%)
3	000-255	**Intensity Green** · Intensity Green (0% → 100%)
4	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)

5: DIM RGBW	VALUE	FUNCTION
5	000-255	**Intensity Emulated White** · Intensity Emulated White (0% → 100%)

Profile 6: DIM RGBAW (Pixel = 1; Strobe = Off)

6: DIM RGBAW	VALUE	FUNCTION
1	000-255	**Dimmer** · Dimmer (closed → open)
2	000-255	**Intensity Red** · Intensity Red (0% → 100%)
3	000-255	**Intensity Green** · Intensity Green (0% → 100%)
4	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)
5	000-255	**Intensity Amber** · Intensity Amber (0% → 100%)
6	000-255	**Intensity Emulated White** · Intensity Emulated White (0% → 100%)

Profile 7: RGB CCT DIM IND (Pixel = 1; Strobe = Off)

7: RGB CCT DIM IND	VALUE	FUNCTION
1	000-255	**Intensity Red** · Intensity Red (0% → 100%)
2	000-255	**Intensity Green** · Intensity Green (0% → 100%)
3	000-255	**Intensity Blue** · Intensity Blue (0% → 100%)
4		**Color Temperature (CCT)**
	000-004	No effect (source: 0-4)
	005-255	Display color temperature (source: 4-255). Formular: CCT = 2000 + 20*DMX-Value. Example: 50 → 3000K, 100 → 4000K, 150 → 5000K. *CCT overwrites the RGB setting
5	000-255	**Dimmer** · Dimmer (closed → open)
6		**Index Colors**
	000-001	No effect
	002-255	Display Index Colors (full list at the end of this document). *Index Colors overwrites both, RGB and CCT

Profile 169: D16 CCT GM C XY (Pixel = 1; Strobe = Off)

169: D16 CCT GM C XY	VALUE	FUNCTION
1	000-255	**Dimmer (16-bit coarse)** · Dimmer, closed → open (0–65535)
2	000-255	**Dimmer (16-bit fine)** · Dimmer, closed → open (0–65535)
3	000-255	**Color Temperature (CCT)** · Formular: CCT = 1750 + 32*DMX-Value. Example: 45 → 3190K, 70 → 3990K, 117 → 5494K
4		**Green / Magenta Point**
	000-004	No effect
	005-255	-96.1% → 100%. Formular: G/M = 100% * (DMX-Value/128 - 1)
5	000-255	**Crossfade** · Crossfade (0 full CCT, 255 full RGB, smooth fade)
6	000-255	**X (16-bit coarse)** · Formular: x-Coordinate = 0.8 * DMX-Value / 65535 (0–65535)
7	000-255	**X (16-bit fine)** · Formular: x-Coordinate = 0.8 * DMX-Value / 65535 (0–65535)

169: D16 CCT GM C XY	VALUE	FUNCTION
8	000-255	**Y (16-bit coarse)** · Formular: y-Coordinate = 0.8 * DMX-Value / 65535 (0–65535)
9	000-255	**Y (16-bit fine)** · Formular: y-Coordinate = 0.8 * DMX-Value / 65535 (0–65535)

DMX profile index

PROFILE	NAME	CHANNELS
1 PIXEL		
8	8: RGBS	4 ch
9	9: RGBWS	5 ch
10	10: RGBAWS	6 ch
11	11: DIM RGBS	5 ch
12	12: DIM RGBWS	6 ch
13	13: DIM RGBAWS	7 ch
14	14: RGB CCT DIM IND S	7 ch
89	89: D CCT GM CRO RGB	7 ch
90	90: D CCT GM HUE SAT	5 ch
91	91: D16 CCT GM C RGB	8 ch
92	92: D16 CCT GM H SAT	7 ch
93	93: D16 X Y	6 ch
94	94: D CCT GM CRO RGB S	8 ch
95	95: D CCT GM HUE SAT S	6 ch
96	96: D16 CCT GM H SAT S	8 ch
97	97: D16 X Y S	7 ch
137	137: D16 CCT GM C RGB S	9 ch
168	168: D CCT GM CRO XY	8 ch
170	170: D CCT GM C CRO XY S	9 ch
171	171: D16 CCT GM C CRO XY S	10 ch
EFFECT		
15	15: Effect Mode Fix	13 ch
16	16: Effect Mode RGB	21 ch
176	176: EFFECT MODE FIX FAN	14 ch
177	177: EFFECT MODE RGB FAN	22 ch
FAN		
144	144: RGB FAN	4 ch
145	145 RGBW FAN	5 ch
146	146: RGBAW FAN	6 ch
147	147: DIM RGB FAN	5 ch
148	148: DIM RGBW FAN	6 ch
149	149: DIM RGBAW FAN	7 ch
150	150: RGB CCT DIM IND FAN	7 ch
151	151: D CCT GM CRO RGB FAN	8 ch
152	152: D CCT GM HUE SAT FAN	6 ch
153	153: D16 CCT GM C RGB FAN	9 ch
154	154: D16 CCT GM H SAT FAN	8 ch

PROFILE	NAME	CHANNELS
155	**155: D16 X Y FAN**	7 ch
156	**156: RGBS FAN**	5 ch
157	**157: RGBWS FAN**	6 ch
158	**158: RGBAWS FAN**	7 ch
159	**159: DIM RGBS FAN**	6 ch
160	**160: DIM RGBWS FAN**	7 ch
161	**161: DIM RGBAWS FAN**	8 ch
162	**162: RGB CCT DIM IND S FAN**	8 ch
163	**163: D CCT GM CRO RGB S FAN**	9 ch
164	**164: D CCT GM HUE SAT S FAN**	7 ch
165	**165: D16 CCT GM C RGB S FAN**	10 ch
166	**166: D16 CCT GM H SAT S FAN**	9 ch
167	**167: D16 X Y S FAN**	8 ch
172	**172: D CCT GM CRO XY FAN**	9 ch
173	**173: D16 CCT GM CRO XY FAN**	10 ch
174	**174: D CCT GM CRO XY S FAN**	10 ch
175	**175: D16 CCT GM CRO XY S FAN**	11 ch

Source: gdtf:astera-pluto-fresnel.gdtf rid 62990. Channel counts are the DMX block each profile occupies.

※ Selected single-pixel profiles. The full profile set is in the Astera DMX Profiles document and the AsteraApp.

※ The profile list on this page covers every profile in Astera's own GDTF file. Each channel count is the DMX block the profile takes, pixel profiles included. The channel tables are the single-pixel profiles.