DMX CHART

# Astera NYX Bulb

Model FP5 · 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 · 91: D16 CCT GM C RGB

## 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 91: D16 CCT GM C RGB (Pixel = 1; Strobe = Off)

| 91: D16 CCT GM C RGB | 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 | **Intensity Red** · Intensity Red (0% → 100%) |
| 7 | 000-255 | **Intensity Green** · Intensity Green (0% → 100%) |

| 91: D16 CCT GM C RGB | VALUE | FUNCTION |
|---|---|---|
| 8 | 000-255 | **Intensity Blue** · Intensity Blue (0% → 100%) |

## 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 |
| 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 C CRO XY** | 8 ch |
| 169 | **169: D16 CCT GM C CRO XY** | 9 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 |

Source: gdtf:astera-nyx-bulb.gdtf rid 63000. 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.