



# CANTATA LED FRESNEL



The Strand Cantata LED Fresnel is a modern LED theatrical Fresnel designed for mid-sized applications. The Cantata LED is available in a full color version as well as two tunable white versions. The full color version uses an RGBALC (Red, Green, Blue, Amber, Lime & Cyan) color mixing system for a wide mixable color spectrum, but it can be easily controlled with traditional CYM controls using the SmartColor Control system. To compliment the Full Color version, two white output versions are available—a warm tunable white (2700k to 4500k) and cold tunable white (4000k to 7000k) variety—both of which offer a consistent CRI exceeding >94 CRI across all color temperatures.

Each of the three Cantata fixture versions use the same manually operated zoom system located on either side near the front of the luminaire, providing a smooth zoom range of 10° to 55°. The locking default standard size accessory rails located at the front of the fixture allows for further beam shaping using the optional 8 leaf barn door or third-party accessories. To ensure these new high-powered LED fixtures are suitable for use in the quietest of applications, the Strand Cantata LED utilizes new fan control technology with Standard, Studio, and Whisper modes.



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## FEATURES AND BENEFITS

- **High output midsized LED Fresnel** - modern theatrical fresnel with quality you can trust.
- **Full Color, Warm White, and Cool White Versions with Consistent High CRI** - perfect fixture for any application.
- **High CRI RGBALC Color System with SmartColor Control** - wide range of vivid color options that can be programmed using CYM
- **Tunable white with >94 CRI** - adjust color temperature of warm or cold white fixtures without compromising output or quality of light
- **Independent color mixing and temperature controls** - match color pallet to color temperature without manual adjustment for simpler programming
- **Standard-size accessory rails to support optional 8 leaf barn door or third** - party accessories- multiple, easily-accessible options to get the perfect look
- **Quiet operation with variable fan control (Standard, Studio, and Whisper)** - perfect for use in quiet environments
- **Adjustable frequency to exceed camera frame rates** - camera friendly fixtures for IMAG, event recordings, or TV & film applications.



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|                            |                    | FULL COLOR  |                    | TUNABLE WARM WHITE                          |                    | TUNABLE COLOR WHITE                         |                    |
|----------------------------|--------------------|---|--------------------|---|--------------------|---|--------------------|
| <b>SOURCE</b>              |                    |   |                    |   |                    |   |                    |
| <b>Type</b>                |                    | Luxeon C RGBAL LED  |                    | 2700K+4500K                                 |                    | 4000K+6500K                                 |                    |
| <b>Wattage</b>             |                    | 100pcs x 3W   |                    | 121pcs x 4.5W                               |                    | 121pcs x 4.5W                               |                    |
| <b>OPTICAL PERFORMANCE</b> |                    |   |                    |   |                    |   |                    |
| <b>Lens size</b>           |                    | 215mm / 8.5 in  |                    | 215mm / 8.5 in                              |                    | 215mm / 8.5 in                              |                    |
| <b>Dimming</b>             |                    | 16-bit dimming; Dim snap on/off DMX control; Tungsten amber shift optional on/off DMX control |                    | 16-bit dimming; Dim snap on/off DMX control |                    | 16-bit dimming; Dim snap on/off DMX control |                    |
| <b>Dimming curves</b>      |                    | Square Law<br>Linear<br>S-Curve   |                    | Square Law<br>Linear<br>S-Curve             |                    | Square Law<br>Linear<br>S-Curve             |                    |
| <b>CCT</b>                 |                    | 2,700 - 10,000k   |                    | 2700 - 4500k                                |                    | 4000 - 6500k                                |                    |
| <b>Strobe</b>              |                    | Standard, Lightning and Random  |                    | Standard, Lightning and Random              |                    | Standard, Lightning and Random              |                    |
| <b>Max lumen output</b>    |                    | 8700  |                    | 11550                                       |                    | 13653                                       |                    |
|                            |                    | <b>Lux</b>  | <b>Footcandles</b> | <b>Lux</b>                                  | <b>Footcandles</b> | <b>Lux</b>                                  | <b>Footcandles</b> |
| <b>Narrow</b>              | <b>5m / 16 ft</b>  | 4068  | 378                | 6270  | 582                | 7400  | 687                |
|                            | <b>10m / 32 ft</b> | 1017  | 94                 | 1056  | 98                 | 1850  | 172                |
| <b>Mid</b>                 | <b>5m / 16 ft</b>  | 896   | 83                 | 980   | 91                 | 1749  | 162                |
|                            | <b>10m / 32 ft</b> | 212   | 20                 | 245   | 23                 | 437   | 41                 |
| <b>Wide</b>                | <b>5m / 16 ft</b>  | 240   | 22                 | 400   | 37                 | 456   | 42                 |
|                            | <b>10m / 32 ft</b> | 66  | 6                  | 100   | 9                  | 115   | 11                 |
| <b>CRI</b>                 | <b>RA</b>          | 95 (CCT3200)  |                    | 93  |                    | 94  |                    |
|                            | <b>R9</b>          | 84  |                    | 96  |                    | 95  |                    |
| <b>TM30-15</b>             | <b>Rf</b>          | 92  |                    | 80  |                    | 88  |                    |
|                            | <b>Rg</b>          | 101   |                    | 92  |                    | 98  |                    |
| <b>TLCI</b>                |                    | 82  |                    | 102   |                    | 93  |                    |
| <b>Duv (Delta UV)</b>      |                    | 0.00045   |                    | -0.00611                                    |                    | -0.11356                                    |                    |
| <b>TV flicker free</b>     |                    | Yes; adjustable 12 Hz-25 kHz  |                    | Yes; adjustable 12 Hz-25 kHz                |                    | Yes; adjustable 12 Hz-25 kHz                |                    |
| <b>BEAM</b>                |                    |   |                    |   |                    |   |                    |
| <b>Beam Angle</b>          |                    | 10-55°  |                    | 10-55°                                      |                    | 10-55°                                      |                    |
| <b>Zoom</b>                |                    | Manual dial controlled  |                    | Manual dial controlled                      |                    | Manual dial controlled                      |                    |
| <b>Accessory holder</b>    |                    | Dual rail locking system  |                    | Dual rail locking system                    |                    | Dual rail locking system                    |                    |



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|   | FULL COLOR  | TUNABLE WARM WHITE  | TUNABLE COLOR WHITE   |
|---|---|---|---|
| <b>Gel Frame Size (H x W)</b>               |   |   |   |
| <b>Barndoor</b>                             | 8 leaf option accessory   | 8 leaf option accessory   | 8 leaf option accessory   |
| <b>COLOR CONTROL</b>                        |   |   |   |
| <b>Color mixing</b>                         | RGBALC Direct control or CYM, CTO+ green magenta  | <i>not applicable</i>   | <i>not applicable</i>   |
| <b>CTO / CTB</b>                            | Variable control 2,700 - 10,000K  | Variable control 2,700 - 4,500K   | Variable control 4,000 - 6,500K   |
| <b>Camera adjustments</b>                   | Magenta / Green shift control   | <i>not applicable</i>   | <i>not applicable</i>   |
| <b>Color presets</b>                        | 33 predefined calibrated colors; 20 user-definable color presets  | <i>not applicable</i>   | <i>not applicable</i>   |
| <b>CONTROLS</b>                             |   |   |   |
| <b>Control data protocols</b>               | DMX RDM   | DMX RDM   | DMX RDM   |
| <b>Data input</b>                           | 5-pin DMX in/thru   | 5-pin DMX in/thru   | 5-pin DMX in/thru   |
| <b>DMX modes</b>                            | Smart Color Control - 14 Channels (default); Q Color - 4 Channels; Open Color Control - 19 Channels; Manual - Dial Mode | 16-bit - 7 channels (default); 8 Bit - 5 channels; 2 Ch - 2 channels; Manual - Dial Mode; | 16-bit - 7 channels (default); 8 Bit - 5 channels; 2 Ch - 2 channels; Manual - Dial Mode; |
| <b>Fan control</b>                          | On (continuous) or Auto   | On (continuous) or Auto   | On (continuous) or Auto   |
| <b>Fan level presets</b>                    | Standard Studio Whisper   | Standard Studio Whisper   | Standard Studio Whisper   |
| <b>User variable fan control</b>            | User-definable variable fan speed level via DMX Whisper - Standard  | User-definable variable fan speed level via DMX Whisper - Standard                        | User-definable variable fan speed level via DMX Whisper - Standard                        |
| <b>ACOUSTIC LEVELS @ 1M FULL OPERATION*</b> |   |   |   |
| <b>Standard</b>                             | 43  | 43  | 43  |
| <b>Studio</b>                               | 34  | 34  | 34  |
| <b>Whisper</b>                              | 30  | 30  | 30  |

\* 30dBA base fan continuous mode



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|                                    |              | FULL COLOR   | TUNABLE WARM WHITE                                     | TUNABLE COLOR WHITE                                    |              |                 |              |
|------------------------------------|--------------|--|--|--|--------------|-----------------|--------------|
| <b>POWER</b>                       |              |  |  |  |              |                 |              |
| <b>Range</b>                       |              | 100-240VAC   | 100-240VAC   | 100-240VAC   |              |                 |              |
| <b>Connector type</b>              |              | Input/Thru   | Input/Thru   | Input/Thru   |              |                 |              |
| <b>Max wattage</b>                 | <b>120V</b>  | 250W   | <300W  | <300W  |              |                 |              |
|                                    | <b>240V</b>  | 247W   | <300W  | <300W  |              |                 |              |
| <b>ENVIRONMENT</b>                 |              |  |  |  |              |                 |              |
| <b>Cooling system</b>              |              | Forced air cooling                                     | Forced air cooling                                     | Forced air cooling                                     |              |                 |              |
| <b>Operating temp</b>              |              | 0-45°C   | 0-45°C   | 0-45°C   |              |                 |              |
| <b>Construction</b>                |              | Cast aluminium   | Cast aluminium   | Cast aluminium   |              |                 |              |
| <b>Standard finish</b>             |              | Raven Black  | Raven Black  | Raven Black  |              |                 |              |
| <b>IP rating</b>                   |              | IP20   | IP20   | IP20   |              |                 |              |
| <b>PHYSICALS</b>                   |              |  |  |  |              |                 |              |
| <b>Yoke</b>                        |              | Double clutch yoke with built-in short yoke adjustment | Double clutch yoke with built-in short yoke adjustment | Double clutch yoke with built-in short yoke adjustment |              |                 |              |
| <b>DIMENSIONS (H x W x D)</b>      |              | <b>mm</b>  | <b>in</b>  | <b>mm</b>  | <b>in</b>    | <b>mm</b>       | <b>in</b>    |
| <b>Fixture only</b>                |              | 300 x 250 x 403  | 12 x 10 x 16   | 300 x 250 x 403  | 12 x 10 x 16 | 300 x 250 x 403 | 12 x 10 x 16 |
| <b>Packed</b>                      |              | TBC  | TBC  | TBC  | TBC          | TBC             | TBC          |
| <b>WEIGHT</b>                      |              | <b>kg</b>  | <b>lb</b>  | <b>kg</b>  | <b>lb</b>    | <b>kg</b>       | <b>lb</b>    |
| <b>Fixture only</b>                |              | 9.8  | 21.6   | 9.8  | 21.6         | 9.8             | 21.6         |
| <b>Packed</b>                      | <b>Net</b>   | TBC  | TBC  | TBC  | TBC          | TBC             | TBC          |
|                                    | <b>Gross</b> | TBC  | TBC  | TBC  | TBC          | TBC             | TBC          |
| <b>SOFTWARE / FIRMWARE</b>         |              |  |  |  |              |                 |              |
| <b>Update kit</b>                  |              | PEGASUS  | PEGASUS  | PEGASUS  |              |                 |              |
| <b>WARRANTY &amp; APPROBATIONS</b> |              |  |  |  |              |                 |              |
| <b>Warranty</b>                    |              | 2 Years  | 2 Years  | 2 Years  |              |                 |              |
| <b>Approvals / listings</b>        |              | CE, ETL, UL, FCC CSA, RoHS, ISO 9001                   | CE, ETL, UL, FCC CSA, RoHS, ISO 9001                   | CE, ETL, UL, FCC CSA, RoHS, ISO 9001                   |              |                 |              |



# CANTATA LED FRESNEL

| PRODUCT NAME  | ORDER CODE       |
|---|------------------|
| CANTATA LED TCW, Tunable Cold White Fresnel c/w power input connector | <b>64507-001</b> |
| CANTATA LED TWW, Tunable Warm White Fresnel c/w power input connector | <b>64507-002</b> |
| CANTATA LED FC, Full Color Fresnel c/w power input connector          | <b>64507-003</b> |

| ACCESSORIES                  | ORDER CODE       |
|------------------------------|------------------|
| CANTATA LED, 8 Leaf Barndoor | <b>64507-004</b> |

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Ref: 64507-100-00