

ETC Installation Guide

ColorSource® Linear v1.7

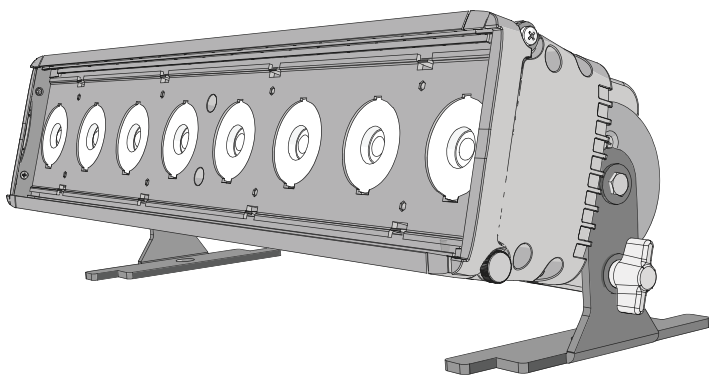
Overview

The ColorSource Linear is an affordable LED fixture that uses the RGB-L (red, green, blue, and lime) color system to provide a rich, bright light.

The fixture is available in three lengths:

- ColorSource Linear 1 (0.5 meter)
- ColorSource Linear 2 (1 meter)
- ColorSource Linear 4 (2 meter)

The ColorSource Linear is available in both original and Deep Blue variants. The Deep Blue uses an array that offers richer, more saturated blues and stronger magentas in exchange for the more jewel-toned blues like sky or turquoise. For more information, see the ETC website at etcconnect.com.



ColorSource Linear 1



Note: *Features described in this document require the latest version of software. For information on updating fixture software, see [Updating the fixture software](#) on page 14.*



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Web: etcconnect.com ■ © 2018 Electronic Theatre Controls, Inc. ■ Product information and specifications subject to change. ■ ETC intends this document to be provided in its entirety.
■ US Patents 8,384,294 . 8,403,523 . 8,593,074 . 8,633,649 . 8,723,450 . 8,878,455 . 9,041,308
■ EU Patents 2638781 . 6020110157302 ■ All other patents pending.
7414M2100-1.7 ■ Rev B ■ Released 2018-09

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Safety

Read the entire manual before using this equipment.



CAUTION:

- *Risk of eye injury. Do not stare directly into the light.*
- *Do not operate in proximity to flammable materials.*



WARNING: Disconnect the fixture from power and DMX and allow it to cool before performing any cleaning and maintenance.

Environment

The ColorSource Linear operates in ambient temperatures of 0°C–40°C and comes with a variable-speed fan.



Note: *The ColorSource Linear is for indoor use only.*



Note:

- *Maximum recommended ambient operating temperature: $T_a = 40^{\circ}\text{C}$ (104°F)*
- *Maximum anticipated external surface temperature at 40°C ambient: $T_{max} = 80^{\circ}\text{C}$ (176°F)*
- *External temperatures after 5 minutes of full-brightness operation at 25°C (77°F) ambient: 36°C (97°F)*
- *External Temperature (steady state achieved) at 25°C (77°F): 48°C (118°F)*

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Electrical

- Operates between 100V and 240VAC at a frequency of 50/60Hz.
- Maximum power consumption:
 - Linear 1: 120W
 - Linear 2: 240W
 - Linear 4: 480W
- Up to 9 cells (0.5 m segments) may be linked via power thru connector.
- Up to 10 cells (0.5 m segments) total per circuit when used with an R20 Relay Module or Unison Echo® Relay Panel. Consult breaker trip curves when used with other equipment. Requires power from a non-dimmable source.
- Inrush (Linear 1/Linear 2/Linear 4):
 - 120V: 35A/35.6A/67.5A (first half-cycle)
 - 240V: 49A/85.6A/153A (first half-cycle)

Typical power consumption

| Linear 1 | 100V | 120V | 230V |
|------------------------|-------------|-------------|-------------|
| Idle Power/Current | 1.63W/0.03A | 1.55W/0.03A | 1.43W/0.03A |
| Direct at Full/Current | 107W/1.07A | 105W/0.88A | 104W/0.46A |

| Linear 2 | 100V | 120V | 230V |
|------------------------|---------------|---------------|-------------|
| Idle Power/Current | 2.86W/0.06A | 2.98W/0.06A | 2.56W/0.06A |
| Direct at Full/Current | 210.83W/2.12A | 208.67W/1.75A | 204.5W/.91A |

| Linear 4 | 100V | 120V | 230V |
|------------------------|---------------|---------------|---------------|
| Idle Power/Current | 5.28W/0.11A | 5.24W/0.11A | 4.65W/0.12A |
| Direct at Full/Current | 424.17W/4.27A | 419.33W/3.52A | 409.17W/1.82A |

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Accessories

You can use several half-meter optional accessories with ColorSource Linear fixtures, including:

- Secondary lenses (horizontal, vertical, and round)
- Barn doors (7414K1020)
- Louver (7414K1019)

For information on installing secondary lenses, see [Installing secondary lenses](#) on [page 15](#).

Accessories for Linear 2 and Linear 4

For the Linear 2 and Linear 4 fixtures, order one accessory for each 0.5 meter segment (cell) of the fixture. For example, for a Linear 2 fixture, order two barn door accessory kits to fit the full length of the fixture.

Spacers for secondary lenses are included with the fixture. Use these spacers to hold the accessories in position when multiple lenses are used in the Linear 2 and Linear 4 fixtures. The spacers are positioned between the 0.5 meter lenses.

Contact your local dealer for more information.

Installation

Mounting

The ColorSource Linear ships with a pair of floor trunnions for mounting.



Note: *Ensure that the trunnions are installed with the feet inward so that fixtures can be lined up end-to-end, if needed.*

You also have the option of using C-clamps with the trunnions to hang the fixture. Attach the C-clamps to the holes in the trunnion feet (see figure on [page 5](#)).

The ColorSource Linear 1 has two additional mounting options. Contact your local dealer for more information.

- Yoke with C-clamp (7414K1017)
- Double yoke with C-clamp for mounting two fixtures (7414K1018)

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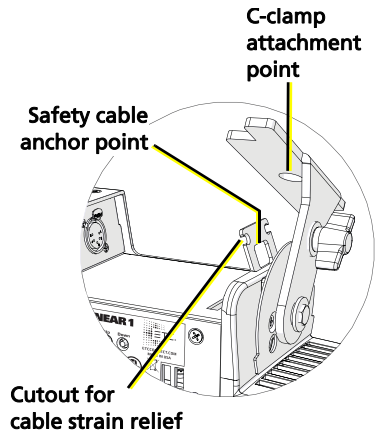
Safety cable

Two safety cable anchor points are provided on the fixture housing.

The anchor points also include two cutouts that can be used for cable strain relief.

Connectors

- **Power:** Two powerCON® connectors for power in and thru
- **Data (DMX512/RDM):** Two five-pin XLR connectors *OR* two RJ45 connectors for data in and thru



Conversion cables are available from ETC. Please contact your ETC customer service representative and request part number W6538 for RJ45 to female XLR or part number W6539 for RJ45 to male XLR.

Connector locations

- **Linear 1:** Power connectors on one side of the fixture and data connectors on the other
- **Linear 2 and Linear 4:** Power and data connectors on each end (to facilitate daisy-chaining)



Note: *This fixture is not Ethernet/data network compatible.*



Note: *The ColorSource Linear is not self terminating. You must terminate the last fixture in line with a 120 Ohm resistor. XLR terminators are not available from ETC. To purchase an RJ45 terminator, please contact ETC customer service and request part number N4086.*

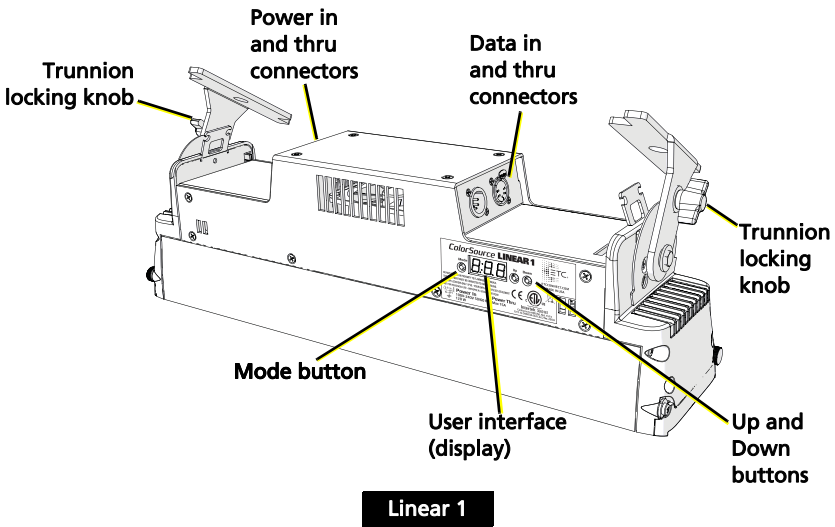
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Setting up the fixture

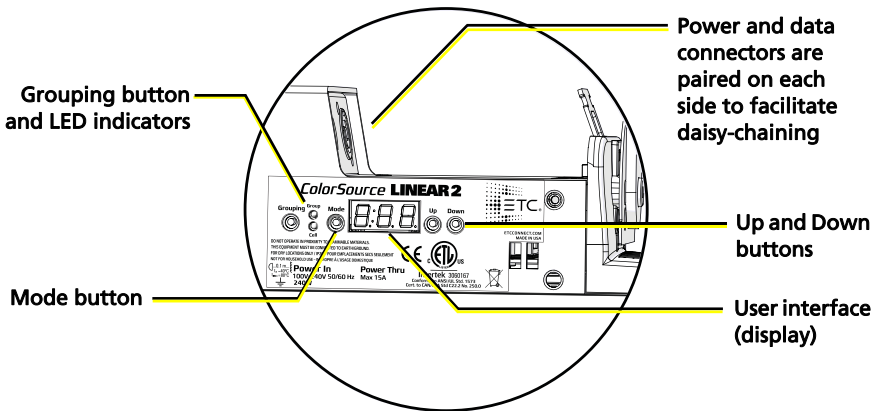
See the fixture illustrations below and on the following page for reference.

- 1: Plug power cord into the powerCON In connector on the rear of the fixture.
- 2: Make any power-thru cable connections prior to applying a power source.
- 3: Make any DMX connections, and if the fixture is the last in a DMX line, terminate the fixture. See [Connectors](#) on [page 5](#).
- 4: Plug power cord into power source.



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Linear 2 and Linear 4

Powering up

- 1: Press any button to wake the display. The display shows the DMX address. See [Setting the DMX address on page 8](#).
- 2: Press the Mode button to access the Presets/Sequences menu. See [Setting presets and sequences on page 12](#).

Adjusting the tilt

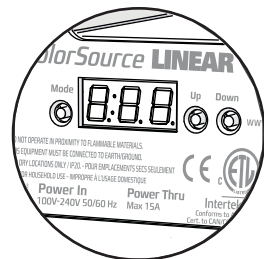
The fixture can be tilted up and down as needed.

- 1: Loosen, but **do not remove** the two trunnion locking knobs.
- 2: Tilt the fixture to the desired angle.
- 3: Tighten the trunnion locking knobs.

User interface

The user interface allows you to set the start address of the fixture, access the stand-alone presets and sequences, set the DMX control mode, and set the Grouping mode (Linear 2 and Linear 4 fixtures only).

- After 5 seconds of inactivity when DMX is present, the display goes dark.
- The DMX address will blink when no DMX is present and a preset or sequence is not active. The inactivity time-out is disabled while in a data loss state.



Linear 1 shown

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Mode button

Pressing the Mode button activates the Presets/Sequences menu; the last active preset or sequence plays automatically. Pressing the Mode button a second time deactivates the selected preset or sequence. The display will revert to show the DMX start address.

- If DMX data is present, the current preset or sequence plays in the background and DMX data continues to take priority.
- If DMX data is lost and a preset is active in the background, the last selected preset or sequence automatically plays.

Setting the DMX address

- 1: Press any button to wake the display. The display shows the DMX address.
- 2: Use the Up and Down buttons to select the DMX address for the fixture.

You can also use RDM for DMX addressing. See [Using RDM](#) on [page 17](#).

Changing the DMX control mode

You can set the DMX control mode for the fixture to one of four available mode options.

- 1: Press any button to wake the display. The display shows the DMX address.
- 2: Press and hold the Mode button for 3 seconds. The display shows the current DMX control mode.
- 3: Press the Up and Down buttons to change the DMX control mode.
 - **Sch**: 5-channel mode (intensity, red, green, blue, and strobe). This is the default mode.
 - **d ir**: Direct emitter control (intensity, red, green, blue, indigo, lime, and strobe).
 - **lch**: 1-channel mode controls the intensity of preset 1 (defaults to 3200K White).
 - **rGb**: RGB mode (red, green, and blue).
- 4: Press the Mode button to confirm your selection.

The display will automatically return to the DMX address after 10 seconds of inactivity, and edits to the DMX control mode will not be saved. This cancels unsaved changes.

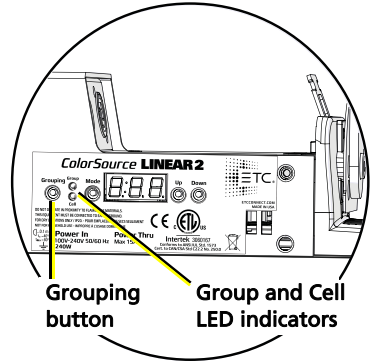
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Setting the Grouping mode

The ColorSource Linear 2 and the ColorSource Linear 4 fixtures have two Grouping modes:

- **Group:** Entire array functions as a single fixture.
- **Cell:** Each 0.5 m segment (or “cell”) of the array functions as a distinct fixture with a separate DMX start address.



To set the Grouping mode, press the Grouping button until the LED indicator for the chosen mode illuminates.

In Cell mode, each cell is assigned a DMX address based on the DMX address of the fixture (see [Setting the DMX address on page 8](#)) and the current DMX control mode (see [Changing the DMX control mode on page 8](#)). For example, if you set the DMX address on the fixture to 100, set the DMX mode to 5-channel, and set the Grouping mode to Cell, the starting DMX address of the first cell will be 100 and the starting DMX address of the second cell will be 105.

DMX control channels

Linear 1 and Linear 2/Linear 4 in Group mode

| DMX Channel | Sch (5 Channel) | dir (Direct) | 1ch (1 Channel) | rgb (RGB) |
|-------------|-----------------|--------------|-----------------|-----------|
| 1 | Intensity | Intensity | Intensity | Red |
| 2 | Red | Red | | Green |
| 3 | Green | Green | | Blue |
| 4 | Blue | Blue/Indigo* | | |
| 5 | Strobe** | Lime | | |
| 6 | | Strobe** | | |

*Original ColorSource Linear fixture uses blue in channel 4; Deep Blue fixture uses indigo in channel 4.

**Use DMX values of 0 or 255 for no strobe. Use values of 1–254 to increase the strobe rate from 1 per second up to 33 per second.

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Linear 2 in Cell mode

| DMX Channel | Sch (5 Channel) | | dir (Direct) | lch (1 Channel) | | rgb (RGB) | | |
|-------------|--------------------|--------------|-----------------|--------------------|--------------|--------------|--------------|--------------|
| 1 | Cell 1 | Intensity | Cell 1 | Intensity | 0 | Cell 1 | Red | |
| 2 | | Red | | Red | 255 | | Intensity | Green |
| 3 | | Green | | Green | [Greyed out] | | [Greyed out] | Blue |
| 4 | | Blue | | Blue/Indigo* | | | | Red |
| 5 | | Strobe** | | Lime | | | | Green |
| 6 | Intensity | Strobe | Blue | | | | | |
| 7 | Cell 2 | Red | Cell 2 | Intensity | | [Greyed out] | | [Greyed out] |
| 8 | | Green | | Red | | | | |
| 9 | | Blue | | Green | | | | |
| 10 | | Strobe** | | Blue/Indigo* | | | | |
| 11 | | [Greyed out] | | Lime | | | | |
| 12 | | [Greyed out] | | Strobe** | | | | |

*Original ColorSource Linear fixture uses blue; Deep Blue fixture uses indigo.

**Use DMX values of 0 or 255 for no strobe. Use values of 1–254 to increase the strobe rate from 1 per second up to 33 per second.

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Linear 4 in Cell mode

| DMX Channel | Sch (5 Channel) | dir (Direct) | lch (1 Channel) | rgb (RGB) | | | | |
|-------------|-----------------|--------------|-----------------|--------------|--------------|-----------|--------------|-------|
| 1 | Cell 1 | Cell 1 | Intensity | C1 Intensity | Cell 1 | Red | | |
| 2 | | | Red | C2 Intensity | | Green | | |
| 3 | | | Green | C3 Intensity | | Blue | | |
| 4 | | | Blue | C4 Intensity | Red | Cell 2 | | |
| 5 | | | Strobe** | Lime | Green | | | |
| 6 | Cell 2 | Cell 2 | Intensity | Strobe** | Blue | | | |
| 7 | | | Red | Intensity | Red | Cell 3 | | |
| 8 | | | Green | Red | Green | | | |
| 9 | | | Blue | Green | Blue | | | |
| 10 | | | Strobe** | Blue/Indigo* | Red | Cell 4 | | |
| 11 | | | Cell 3 | Cell 3 | Intensity | | Lime | Green |
| 12 | | | | | Red | | Strobe** | Blue |
| 13 | | | | | Green | Intensity | Red | |
| 14 | | | | | Blue | Red | Green | |
| 15 | | | | | Strobe** | Green | Blue/Indigo* | |
| 16 | Cell 4 | Cell 4 | | | Intensity | Lime | Strobe** | |
| 17 | | | | | Red | Intensity | Red | |
| 18 | | | Green | Strobe** | Green | | | |
| 19 | | | Blue | Intensity | Blue/Indigo* | | | |
| 20 | | | Strobe** | Red | Lime | | | |
| 21 | Cell 4 | Cell 4 | Green | Strobe** | Blue | | | |
| 22 | | | Blue/Indigo* | Intensity | Red | | | |
| 23 | | | Lime | Green | Blue | | | |
| 24 | | | Strobe** | Blue/Indigo* | Intensity | | | |

*Original ColorSource Linear fixture uses blue; Deep Blue fixture uses indigo.

**Use DMX values of 0 or 255 for no strobe. Use values of 1–254 to increase the strobe rate from 1 per second up to 33 per second.

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Setting presets and sequences

There are twelve factory-configured presets followed by five factory-configured sequences built into the fixture. From the Presets/Sequences menu, press the Up and Down buttons to scroll through the list. The sequence or preset plays immediately upon selection. All presets and sequences can be re-recorded through an RDM device.

When a Linear 2 or Linear 4 fixture is in Cell mode, you can re-record a preset with each cell having a distinct set of values. See [Setting the Grouping mode on page 9](#).

Re-recording a preset

- 1: Using DMX, set the desired levels.
- 2: Press the Mode button to access the Presets/Sequences menu.
- 3: Using the Up and Down buttons, navigate to the preset number that you want to re-record.
- 4: Press and hold the Mode button for 3 seconds to confirm the preset selection. The user interface will show a 3-second countdown. The preset number blinks once to confirm that the preset has been recorded.



Note: *When the fixture is in Direct mode (d ir) or 1-channel mode (lch), you cannot re-record presets. When you re-record presets with the fixture in RGB mode (r gb), the intensity is set to full and the strobe is turned off.*

See [Changing the DMX control mode on page 8](#).

It is possible to activate a known preset or sequence from a connected fixture when DMX is not present. If a connected fixture activates a preset or sequence that is not recognized by the fixture, the fixture will hold its last look. When DMX is restored, the DMX takes priority.

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Pre-configured presets

| Preset | Name | Preset | Name |
|--------|-------------|--------|--------------|
| 1 | 3200K White | 7 | Magenta |
| 2 | 5600K White | 8 | Yellow |
| 3 | Red | 9 | Orange |
| 4 | Green | 10 | Light Yellow |
| 5 | Blue | 11 | Light Blue |
| 6 | Cyan | 12 | Light Pink |

Pre-configured sequences

| Sequence | Name |
|----------|------------------|
| 1 | Rainbow Fast |
| 2 | Rainbow Slow |
| 3 | Warm Colors Fast |
| 4 | Cool Colors Fast |
| 5 | Random |

Adjusting the intensity of presets

- 1: Ensure that DMX data is not present.
- 2: Press the Mode button to access the Presets/Sequences menu, and then press the Up and Down buttons to select the preset that you want to edit.
- 3: Press and hold the Mode button for 3 seconds. The display shows **L: ##** where the number is an intensity level from **0-99**, or **FL**.
- 4: Press the Up and Down buttons to change the intensity level of the preset in real time.
- 5: Press the Mode button to confirm your selection and return to the Presets/Sequences menu.

The display will automatically return to the Presets/Sequences menu after 10 seconds of inactivity, and edits to the preset intensity will not be saved.

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Locking the user interface

After you have set up the fixture, you can lock the user interface to prevent additional changes.

- 1: Press and hold the Up and Down buttons simultaneously for 3 seconds. The display will show **Loc** to indicate that the user interface is locked.
- 2: To unlock the user interface, press and hold the Up and Down buttons simultaneously for 3 seconds.

Updating the fixture software

ETC recommends using UpdaterAtor software to manage software updates. For more information on UpdaterAtor, see the *UpdaterAtor Software Quick Guide*, which you can download for free from etconnect.com.

When you add a ColorSource fixture running a newer software version or update a ColorSource fixture to a newer software version using UpdaterAtor, you can use that fixture to push the newer software version to all connected ColorSource fixtures.

You can push newer software versions from a connected fixture only on ColorSource fixtures running software v1.3.0 or newer. Use UpdaterAtor to update individual fixtures running versions older than v1.3.0.

- 1: Remove power and DMX In from the master fixture that is running the software version that you want to push to other fixtures.
- 2: Press and hold the Up and Down buttons simultaneously while restoring power.
- 3: The display will show **Udt rdy** to indicate the update mode is selected.
- 4: Press the Mode button to start the update process.
 - The display will alternate between **Udt** and the percentage complete while updating.
 - The master fixture will reboot once the update is complete.
- 5: Reconnect DMX In on the master fixture.

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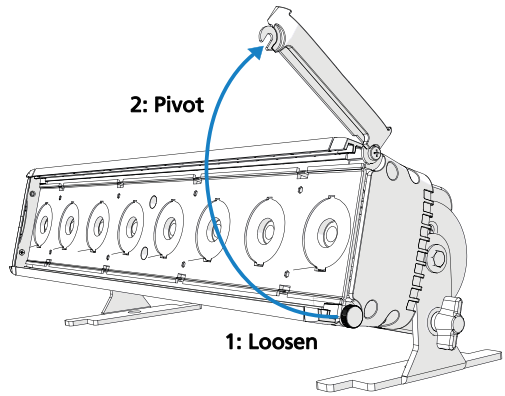
Installing secondary lenses

You can use several optional accessories with the ColorSource Linear, including secondary lenses (horizontal, vertical, and round). You can use either a single lens or two lenses simultaneously, and you can install them from either end of the fixture.

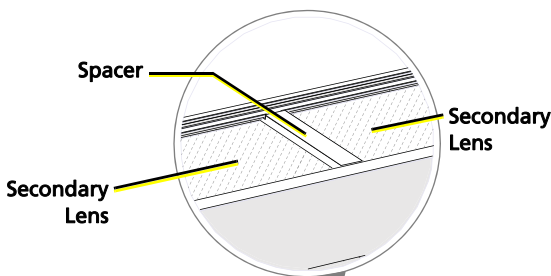
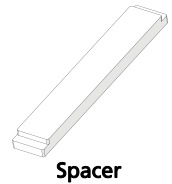
For the Linear 2 and Linear 4 fixtures, order one accessory for each 0.5 meter segment (cell) of the fixture.

Spacers for secondary lenses are included with the fixture. Use these spacers to hold the accessories in position when multiple lenses are used in the Linear 2 and Linear 4 fixtures.

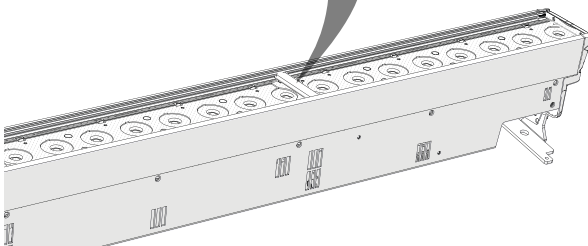
- 1: Loosen the thumbscrew on the access panel on either end of the fixture.
- 2: Pivot the access panel until you can access the slots above the LEDs.



(ColorSource Linear 1 shown)



- 3: Slide the secondary lens (or lenses) into either of the slots above the LEDs. For the Linear 2 and Linear 4 fixtures, position spacers between the lenses for the cells (in the same slot as the lenses). See image at left.
- 4: Pivot the access panel back into place and tighten the thumbscrew.



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Restoring factory defaults

Press and hold the Mode, Up, and Down buttons simultaneously for 5 seconds. The DMX start address will blink once to confirm that defaults have been restored.

Error codes

There are three error codes that may be shown on the user interface.

- **CAL**: Screen toggles between **CAL** and **Err** to indicate a problem with the color calibration. The fixture will need to be returned to the ETC factory; contact your local dealer to set up a repair.
- **OtP**: Screen toggles between **OtP** and **Err** to indicate that the fixture has gone into over-temperature protection mode to avoid damaging the fixture. Once the fixture has self-cooled, the error will automatically clear.
- **CbL**: Screen toggles between **CbL** and **Err** to indicate that a control card or the internal cabling is damaged or unplugged. Verify that internal cables are properly connected. If the error persists, the fixture will need to be returned to the ETC factory; contact your local dealer to set up a repair.
- **no APP**: Screen toggles between **no** and **APP** to indicate that the upgraded fixtures have a software issue. Reload software to clear the error. If the error persists, contact ETC.

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Using RDM

RDM and Grouping modes

Linear 2 and Linear 4 fixtures in Cell mode contain 2 sub-devices (Linear 2) or 4 sub-devices (Linear 4). Use DMX_BLOCK_ADDRESS to set the DMX address of the first cell, and the remaining cells will be numbered sequentially from that starting value.

RDM also allows you to use nonsequential DMX addresses, if desired. The fixture displays “---” for the DMX address to indicate nonsequential DMX addressing. If you set up nonsequential DMX addresses and then change the DMX address at the fixture, however, the fixture will return to sequential DMX addressing.

Linear 2 and Linear 4 fixtures in Group mode do not use sub-devices.

RDM Values

Manufacturer ID: 0x6574 (Electronic Theatre Controls)

Model ID:

- **Linear 1:** 0x0209 (ETC ColorSource Linear 1) or 0x020A (ETC ColorSource Linear 1 Deep Blue)
- **Linear 2:** 0x020D (ETC ColorSource Linear 2) or 0x020E (ETC ColorSource Linear 2 Deep Blue)
- **Linear 4:** 0x0211 (ETC ColorSource Linear 4) or 0x0212 (ETC ColorSource Linear 4 Deep Blue)

| Parameter | RDM PID | Fixture | Value |
|-------------------|---------|--|---|
| DMX Start Address | 0x00F0 | All | Range = 1–512 |
| Personality ID | 0x00E0 | Linear 1; Linear 2 and Linear 4 in Group mode | 1 = 5 Channel 2 = Direct 3 = 1 Channel 4 = RGB |
| | | Linear 2 and Linear 4 in Cell mode | 5 = 5 Channel Multi-Cell 6 = Direct Multi-Cell 7 = 1 Channel Multi-Cell 8 = RGB Multi-Cell |
| Output Frequency | 0x8123 | Linear 1; Linear 2 and Linear 4 in Group mode | 0 = Standard (1.2 kHz) 1 = High (25 kHz) |

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Quick reference

DMX control channels for Linear 1 and Linear 2/Linear 4 in Group mode

| DMX Channel | <i>Sch</i> (5 Channel) | <i>dir</i> (Direct) | <i>lch</i> (1 Channel) | <i>rGb</i> (RGB) |
|-------------|---------------------------|------------------------|---------------------------|---------------------|
| 1 | Intensity | Intensity | Intensity | Red |
| 2 | Red | Red | | Green |
| 3 | Green | Green | | Blue |
| 4 | Blue | Blue/Indigo* | | |
| 5 | Strobe** | Lime | | |
| 6 | | Strobe** | | |

*Original ColorSource Linear fixture uses blue in channel 4; Deep Blue fixture uses indigo in channel 4.

**Use DMX values of 0 or 255 for no strobe. Use values of 1–254 to increase the strobe rate from 1 per second up to 33 per second.

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