

ETC Installation Guide

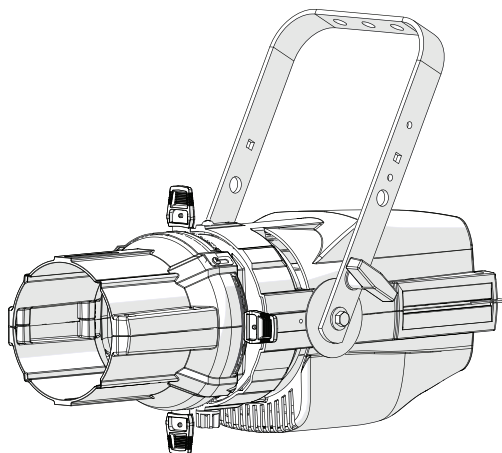
ColorSource Spot V

Overview

The ColorSource Spot V is an affordable LED fixture that uses the RGBIL (red, green, blue, indigo, and lime) color system to provide a rich, bright light. The fixture features wireless configuration and control via NFC and the Set Light app. The ColorSource Spot V includes wireless DMX via Multiverse®.

The ColorSource Spot V is UL924 listed as a Directly Controlled Luminaire for use in emergency lighting systems when used with the ETC DMX Emergency Bypass Controller (DEBC).

This light engine can be used with standard ETC shutter barrels, lens tubes, Fresnel adapters, CYC adapters, and accessories.



Note: Features described in this document require the latest version of software. For information on updating fixture software, see [Update the Fixture Software on page 20](#).



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Safety

For professional use only. Read the entire manual before using this equipment.



WARNING:

- Risk of eye injury. Do not stare directly into the light.
- Do not mount the fixture on or near a flammable surface.
- When the fixture is mounted, the axis between the yoke attachment points must be parallel to the ground. Mounting the fixture in a non-parallel orientation risks property damage or bodily injury.
- Disconnect the fixture from power and DMX and allow it to cool before installing accessories or performing any cleaning and maintenance.

AVERTISSEMENT :

- Risque de lésion oculaire. Ne fixez pas directement la lumière.
 - Ne pas installer le projecteur sur ou à côté d'une surface inflammable.
 - Lorsque le luminaire est accroché, l'axe entre les points de fixation de la lyre doit être parallèle au sol. Le montage du luminaire dans une orientation non parallèle risque de causer des dommages matériels ou corporels.
 - Débranchez le projecteur de son alimentation et du DMX et laissez-le refroidir avant d'installer des accessoires ou d'effectuer un nettoyage ou un entretien.
-



WARNING: The ColorSource Spot V is a Directly Controlled Luminaire suitable for use in emergency lighting applications in accordance with 2017 National Electrical Code section 700.24 when used with an ETC DMX Emergency Bypass Controller. The response time to DMX control from application of power is 2 seconds. Equipment intended for this purpose must be properly selected, installed, and maintained so that facility conformance can be obtained. Installation and servicing shall be performed by qualified service personnel.

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Note: *The light source in this luminaire must only be replaced by the manufacturer, the manufacturer's service agent, or a similarly qualified person.*



Note:

- *DMX512 connections must be Class 2.*
 - *To ensure that cumulative leakage current on control wiring does not exceed 3.5 mA, connect no more than 32 fixtures on a single DMX run.*
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IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

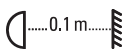
- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS

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The following symbols may appear on product labeling.

	The luminaire must be installed at least 0.1 m (4.0 in) away from all lighted objects.	Le luminaire doit être installé à au moins 0,1 m (4,0 po) de tout objet éclairé.
	This product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.	Ce produit ne doit pas être jeté avec les déchets ménagers mais doit être déposé dans une collecte de déchets électroniques ou dans un point de collecte.
	Protective earth (ground)	Protection Classe I Mise à la terre

Emergency Lighting Considerations

Luminaires that are used in emergency lighting applications must provide a minimum illumination level over the identified means of egress path in accordance with the Life Safety Code®, NFPA 101. A luminaire that is intended to serve this purpose must be mounted at a height where it will not readily be subjected to tampering by unauthorized personnel and where the minimum required illumination level over the egress path can be achieved. The ETC DMX Emergency Bypass Controller that is driving the luminaire upon loss of utility power must be programmed to drive the ColorSource Spot V to full illumination. For more information, see the *DMX Emergency Bypass Controller Installation Guide*, available for download at etcconnect.com.

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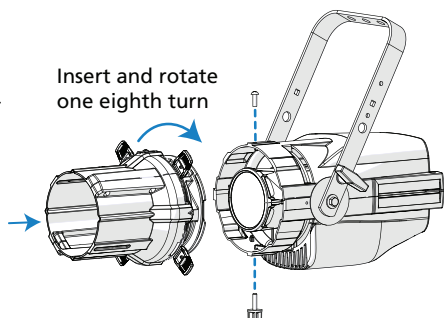
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Installation

Install a Shutter Barrel

The ColorSource Spot V can be purchased with or without a shutter barrel. To install a shutter barrel you will need a #2 Phillips screwdriver (not provided).

The ColorSource light engine includes a barrel screw. The small screw used to secure the top of the shutter barrel is included with the shutter barrel.



1. Align the barrel to the front of the ColorSource Spot V and rotate it one eighth turn (45°) counter-clockwise before inserting.
2. Insert the shutter barrel into the front of the light engine and rotate clockwise until it is fully threaded onto the light engine.
3. Insert the barrel screw at the bottom of the light engine and tighten.
4. Insert the small screw into the top of the light engine and tighten using the Phillips screwdriver.

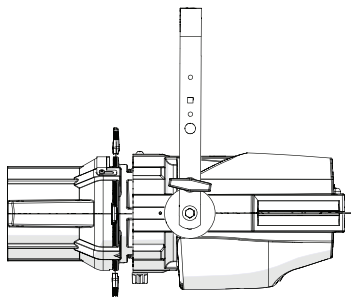
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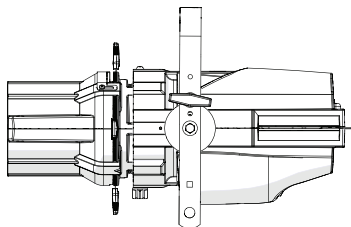
Mounting

The ColorSource Spot V ships with a standard yoke for mounting with a clamp. You can adjust the position of the yoke when necessary for low-clearance mounting.

Standard yoke position



Low-clearance yoke position

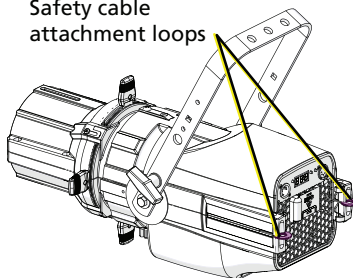


You can attach a ColorSource Relay to the yoke. See etcconnect.com for more information about ColorSource Relay.

Safety Cable

A safety cable (or other approved safety device) must be attached to the fixture. Attachment loops are on the rear of the fixture. Leave as little slack as possible in the safety cable to avoid catching the yoke of the fixture.

Safety cable attachment loops



Connectors

- **Power:** Two powerCON® TRUE1® connectors for power in and thru
- **Data (DMX512/RDM):** Two five-pin XLR connectors for data in and thru



Note: The ColorSource Spot V is not self terminating. You must terminate the last fixture in line with a 120 Ohm resistor. To purchase a terminator, please contact ETC customer service and request part number **SGE1507** (XLR terminator).

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Set Up the Fixture

1. Plug the power cord into the powerCON TRUE1 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 6](#).
4. Plug the power cord into the power source.

Power Up

Press any button to wake the display. The display shows the DMX address. See [Set the DMX Address on page 7](#).

You can press the **Mode** button to access the Presets/Sequences menu. See [Play Presets and Sequences on page 18](#).

Adjust the Tilt

The fixture can be tilted up and down and rotated (panned) as needed.

1. Loosen, but do not remove the yoke locking knobs.
2. Tilt the fixture to the desired angle.
3. Tighten the yoke locking knobs.

Set 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 set the DMX address using RDM or using the Set Light app. See [RDM Values on page 23](#) or [Configure Fixtures Using the Set Light App on page 17](#).

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Change the DMX Control Mode

You can set the DMX control mode for the fixture to one of nine 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 **ctl** (Control).
3. Press the **Mode** button. The display shows the current DMX control mode.
4. Press the **Up** button or **Down** button to change the DMX control mode. (The currently saved mode is indicated by a decimal point at the end of the mode name.)
 - **Stn**: Standard mode (intensity, red, green, blue, strobe, fan, and curve). This is the default mode.
 - **d ir**: Direct emitter control (intensity, red, green, blue, indigo, lime, strobe, fan, and curve).
 - **lch**: 1-channel mode controls the intensity of preset 1 (defaults to 3200 K White).
 - **r gb**: RGB mode (red, green, and blue).
 - **Sch**: 5-channel mode (intensity, red, green, blue, and strobe). This mode uses the legacy white point (5400 K) and strobe function from the original ColorSource family.
 - **cct**: Studio mode (intensity, CCT, tint, tune, strobe, fan, and curve).
 - **St2**: Standard 16-bit mode (intensity coarse/fine, red coarse/fine, green coarse/fine, blue coarse/fine, strobe, fan, and curve). This is a 16-bit mode.
 - **dr2**: Direct emitter control (intensity coarse/fine, red coarse/fine, green coarse/fine, blue coarse/fine, indigo coarse/fine, lime coarse/fine, strobe, fan, and curve). This is a 16-bit mode.
 - **ct2**: Studio 16-bit mode (intensity coarse/fine, CCT coarse/fine, tint, tune, strobe, fan, and curve). This is a 16-bit mode.
5. Press the **Mode** button to confirm your selection. The display shows **ctl** (Control).

If you do not press the **Mode** button, the display will automatically return to the DMX address after 10 seconds of inactivity, and edits will not be saved. This cancels unsaved changes.
6. Navigate to the **rtn** (Return) option to return to the DMX address display.

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DMX Control Channels

8-bit Modes

DMX Channel	<i>Stn</i> Standard	<i>dir</i> Direct	<i>lch</i> 1 Channel	<i>rgb</i> RGB	<i>sch</i> 5 Channel	<i>cct</i> Studio
1	Intensity	Intensity	Intensity	Red	Intensity	Intensity
2	Red	Red		Green	Red	CCT*
3	Green	Green		Blue	Green	Tint*
4	Blue	Blue			Blue	Tune*
5	Strobe*	Indigo			Strobe**	Strobe*
6	Fan*	Lime				Fan*
7	Curve*	Strobe*				Curve*
8		Fan*				
9		Curve*				

* See [DMX Parameter Values on page 11](#) for the DMX values that set these parameters.

**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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16-bit Modes

Coarse and Fine values work together as a pair. The Coarse value adjusts the parameter in larger, potentially more noticeable steps. The Fine value provides adjustments within each Coarse step. When combined they form a single 16-bit value allowing for smooth control.

DMX Channel	St2 Standard 16-bit	dr2 Direct 16-bit	ct2 Studio 16-bit
1	Intensity Coarse	Intensity Coarse	Intensity Coarse
2	Intensity Fine	Intensity Fine	Intensity Fine
3	Red Coarse	Red Coarse	CCT Coarse*
4	Red Fine	Red Fine	CCT Fine*
5	Green Coarse	Green Coarse	Tint*
6	Green Fine	Green Fine	Tune*
7	Blue Coarse	Blue Coarse	Strobe*
8	Blue Fine	Blue Fine	Fan*
9	Strobe*	Indigo Coarse	Curve*
10	Fan*	Indigo Fine	
11	Curve*	Lime Coarse	
12		Lime Fine	
13		Strobe*	
14		Fan*	
15		Curve*	

* See [DMX Parameter Values on page 11](#) for the DMX values that set these parameters.

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DMX Parameter Values

Parameter	DMX Value	Description	Comments
CCT	0	3200 K	
	1–164	1900–5975 K	CCT increases by 25 K at each value (1=1900 K, 2=1925 K, etc.)
	165–254	6000–10450 K	CCT increases by 50 K at each value (165=6000 K, 166=6050 K, etc.)
	255	5600 K	
CCT Coarse/Fine	0/0	3200 K	CCT Coarse=0 and CCT Fine=0 results in 3200 K.
	0/1–255/254	1900–10450 K	CCT increases by single degrees over a range of values. Coarse and Fine values work together as a pair. The Coarse value adjusts the parameter in larger, potentially more noticeable steps. The Fine value provides adjustments within each Coarse step. For example, CCT Coarse=0 and CCT Fine=1 results in 1900 K, while CCT Coarse=23 and CCT Fine=250 results in 2700 K.
	255/255	5600 K	CCT Coarse=255 and CCT Fine=255 results in 5600 K.

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Parameter	DMX Value	Description	Comments
Curve	0–9	Incandescent	
	10–19	Linear	
	20–29	Incandescent Red Shift	In Direct Mode, the fixture uses Incandescent instead of Incandescent Red Shift.
	30–39	Linear Red Shift	In Direct Mode, the fixture uses Linear instead of Linear Red Shift.
	40–49	Quick	Incandescent curve with DMX smoothing turned off
	50–59	Quick Linear	Linear curve with DMX smoothing turned off
	60–69	Unregulated	Incandescent curve with DMX smoothing turned on and regulation turned off. When in Direct mode, color stability is turned off for maximum output.
	70–79	Standard	
	80–255	Reserved	All modes use Incandescent in the range of DMX values for Reserved.
Fan	0–9	Auto	As fixture temperature increases, the fan speed increases to accommodate it.
	10–19	Off	When the fixture gets too hot, the fixture reduces the intensity instead of turning on the fan.
	20	Slow	Minimum fan speed
	21–248	Linear Increase in Speed	Fan speed remains constant, and intensity is reduced as needed when the fixture gets too hot.
	249	Fast	Maximum fan speed (100%)
	250–255	Auto	

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Parameter	DMX Value	Description	Comments
Strobe	0	No Strobe	Shutter open
	1–40	Dark Strobe	Range is 1–40 Hz.
	41–80	Bright Strobe	Range is 1–40 Hz.
	81–120	Pulse Strobe	Strobe includes a fade up and fade down on each pulse.
	121–160	Random Strobe	Strobe pulses at random intervals.
	161–200	Flicker Effect	Strobe pulses at random intervals and at random intensity levels.
	201–240	No Strobe	Shutter open
	241–254	LEDs Off	Shutter closed
	255	No Strobe	Shutter open
Tint	0	Neutral (0)	
	1	Full Green (10)	
	2–127	Linear between 10 and 0	Tint shifts from Green to Neutral as the values increase.
	128	Neutral (0)	
	129–254	Linear between 0 and -10	Tint shifts from Neutral to Magenta as the values increase.
	255	Full Magenta (-10)	
Tune	0–49	Brightest	
	50–99	Best Spectral	
	100–255	Reserved	This range is reserved for future development, but currently outputs the Brightest color calculation method.

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Data Loss Behavior

When DMX data is lost, the fixture does one of the following actions:

- If you selected a preset or sequence, that preset or sequence automatically plays.
- If no preset or sequence is active in the background, the fixture follows the Hold Last Look setting. See [Set the Fixture to Hold Last Look](#).
 - **on**: The fixture holds the last look, including the fan speed.
 - **oFF**: The fixture goes dark, and the fan speed is set to Auto.

Set the Fixture to Hold Last Look

Hold Last Look is turned off by default.

1. With the display showing the DMX address, press and hold the **Mode** button for 3 seconds. The display shows **cLtL** (Control).
2. Press the **Up** button or **Down** button until the display shows **hLL** (Hold Last Look), and then press the **Mode** button.
3. Use the **Up** button or **Down** button to set the Hold Last Look option to either **on** or **oFF**.
4. Press the **Mode** button again. The display shows **hLL**.
5. Press the **Up** button or **Down** button until the display shows **rtn** (Return), and then press the **Mode** button to return to the DMX address display.

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Use Wireless Control

Set Up Multiverse Wireless Communication

You can use a City Theatrical Multiverse® transmitting device to wirelessly configure and control the fixture. For information on using Multiverse products, see the documentation provided with the products.



Note: *For additional guidance and troubleshooting resources when setting up your wireless system, download the Multiverse Wireless Setup Information Guide at etcconnect.com.*

To use Multiverse wireless communication, configure the Multiverse settings on the fixture.

1. With the display showing the DMX address, press and hold the **Mode** button for 3 seconds. The display shows **cLL** (Control).
2. Press the **Up** button or **Down** button until the display shows **rAd** (Radio), and then press the **Mode** button to display the Multiverse settings.
3. Use the **Up** button or **Down** button to navigate to the Multiverse setting that you want to change (see table that follows). Press the **Mode** button to select the setting, use the **Up** button and **Down** button to modify it, and then press the **Mode** button again to return to the Multiverse settings. (The currently saved setting is indicated by a decimal point at the end of the setting name.)

If you do not press the **Mode** button, the display will automatically return to the DMX address after 10 seconds of inactivity, and edits will not be saved. This cancels unsaved changes.



Note: *To disable wireless communication on the fixture, set the Radio Strength (**SLr**) to Off (**OFF**). Off is the default setting.*

4. When you have finished configuring the Multiverse settings, navigate to the **rLn** (Return) option to return to the **rAd** (Radio) option, and then navigate to the **rLn** (Return) option to return to the DMX address display.

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Connection Status

When the 7-segment display is active, the dot between the second and third digit indicates the current status:



- **On solid:** Connected to a transmitter, and can receive both DMX and RDM.
- **On flashing:** Connected to a transmitter, but can only receive DMX. The wireless communication is not optimal, and the wireless setup requires attention.
- **Off:** Searching for a signal, but not connected to a transmitter.

Display	Setting	Values	Description
Un i	Universe	001 – 999 (Default = 001)	Set the Universe value.
id	SHoW ID	100 – 359 (Default = 100)	Set the value of the final three digits of the SHoW ID. For example, for the SHoW ID 24200, set the value to 200. This value must match the SHoW ID value on the Multiverse transmitting device. The display alternates between 24 and the ID value or, for NEO SHoW IDs, between neo and the ID value.
PAS	SHoW Key	000 – 500 (Default = 000)	Set the SHoW Key value. This value must match the SHoW Key value on the Multiverse transmitting device.
Str	Radio Strength	• Off (Default) • 1 – 4	Set the value to the minimum level required for successful communication between transmitters and fixtures. Excess power output can cause reflections and can degrade performance. Off = Turns off power to the Multiverse radio. Use this setting to disable wireless communication on the fixture. 1 = Low 2 = Medium 3 = High 4 = Maximum
9RL	Signal Quality	1 – 100	Display of the signal quality. Values above 50% are good signal quality, and above 80% are excellent. This value can be helpful when troubleshooting wireless performance.

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Display	Setting	Values	Description
SS	Signal Strength	-20 – -120	Display of RSSI (Received Signal Strength indicator) in dBm, ranging from -20 (strongest) to -120 (weakest). (Note that the negative symbol does not display on the fixture.) A display of "---" indicates that there's no connection.
Con	Radio Connection Status	0 – 3	0 = Searching for a signal, but not connected to a transmitter. 1 = Connected to a transmitter, but can only receive DMX. The wireless communication is not optimal, and the wireless setup requires attention. 2 = Was receiving DMX and RDM, but is no longer connected to a transmitter. 3 = Connected to a transmitter, and can receive both DMX and RDM.
Retn	Return		Return to the Rad option.

Configure Fixtures Using the Set Light App

Download the Set Light app to a smartphone with NFC functionality, use the app to set fixture parameters, and then tap the smartphone to the NFC tag on the fixture to configure it wirelessly—even when the fixture is not powered on. Or, after you configure the Multiverse settings on the fixture, use the Set Light app to configure one fixture or multiple fixtures wirelessly from a smartphone or tablet.



Set Light

Visit etconnect.com/FixtureApps or scan the code for more information about the Set Light app.

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Play Presets and Sequences

The fixture has twelve factory-configured presets and five factory-configured sequences. When you play a preset or sequence on a fixture:

- The same preset number or sequence number plays on any connected fixtures that are not receiving DMX.
- If you power down the fixture, the preset or sequence resumes when you power it on again.

You can re-record presets and sequences through an RDM device or manually on the fixture. See [Re-record Presets on page 19](#).

1. Press the **Mode** button to activate the Presets/Sequences menu. The last active preset or sequence plays automatically. (If DMX data is present, the current preset or sequence plays in the background and DMX data continues to take priority.)
2. Press the **Up** button or **Down** button as needed to scroll through the available presets and sequences.
3. To stop the selected preset or sequence, press the **Mode** button a second time. The display will revert to show the DMX start address.

Pre-configured Presets

Preset	Name
1	3200 K White
2	5600 K White
3	Red
4	Green
5	Blue
6	Cyan

Preset	Name
7	Magenta
8	Yellow
9	Orange
10	Light Yellow
11	Light Blue
12	Light Pink

Pre-configured Sequences

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

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Re-record Presets

1. Using DMX, set the desired levels for the new preset.
2. Press the **Mode** button to access the Presets/Sequences menu.
3. Press the **Up** button or **Down** button to 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 1r**) or 1-channel mode (**1ch**), you cannot re-record presets.

When you re-record presets with the fixture in RGB mode (**r9b**), the intensity is set to full and the strobe is turned off.

See [Change the DMX Control Mode on page 8](#).

Adjust 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** button or **Down** button to select the preset that you want to edit.
3. Press and hold the **Mode** button for 3 seconds. The display shows **L=** followed by either an intensity level from **0-99** or **FL** for full.
4. Press the **Up** button or **Down** button 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. (If you don't press the **Mode** button, the display returns to the Presets menu after 10 seconds without saving your changes.)

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Troubleshooting

Lock 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** button and **Down** button 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** button and **Down** button simultaneously for 3 seconds.

Update the Fixture Software

ETC recommends using UpdaterAtr software to manage software updates. For information on UpdaterAtr, see the *UpdaterAtr Software Quick Guide* and the *UpdaterAtr Software Release Note*, which you can download from etcconnect.com.

You can push newer software versions from a fixture to other fixtures of the same type that are further down in a wired DMX run.



Note: *If you have other types of fixtures in your DMX run, you do not need to disconnect them before pushing the updated fixture software. The update process will ignore any other fixture types in the DMX run.*



Note: *Not sure what version of fixture software is installed? The version number appears on the display when the fixture powers up.*

1. Remove power and DMX In from the fixture that is running the software version that you want to push to other fixtures.
2. Press and hold the **Up** button and **Down** button simultaneously while restoring power.
3. The display shows **Udt rdy** to indicate the update mode is selected.

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4. Press the **Mode** button to start the update process.
On the fixture that is pushing the update:
 - The first time that you push an updated software version, additional required files must be copied before the update can begin. The display alternates between **Udt** and **c=HH** to indicate the percentage complete while required data is copied.
 - The display alternates between **Udt** and the percentage complete while updating the connected fixtures.
 - The display returns to its previous value (DMX address or active preset) to indicate that the update is complete.On the fixtures that are receiving the update:
 - The display shows **dl rdy** to indicate that the fixture is preparing to receive a software update.
 - The display shows **U=HH** to indicate the percentage complete.
 - The display returns to its previous value (DMX address or active preset) to indicate that the update is complete.
5. Reconnect DMX In on the fixture.

Restore Factory Defaults

Press and hold the **Mode** button, **Up** button, and **Down** button simultaneously for 3 seconds. The DMX start address will blink once to confirm that defaults have been restored.

Error Codes

These error codes may display 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.
- **DEP**: Screen toggles between **DEP** 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. If the error does not clear, contact ETC Technical Support (visit etcconnect.com/contactETC).
- **Udt Err**: Screen toggles between **Udt** and **Err** to indicate that the software update failed. Reload software to clear the error. If the error persists, contact ETC Technical Support (visit etcconnect.com/contactETC). You can also power cycle the fixture to clear the error, and then update the software at a later time.
- **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 Technical Support (visit etcconnect.com/contactETC).

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Specifications and Reference

For current and complete compliance and specifications, see the ColorSource Spot V datasheet at etcconnect.com.

Environment

- Maximum recommended ambient operating temperature:
Ta = 40°C (104°F)
- Maximum anticipated external surface temperature at 40°C ambient: Tmax = 80°C (176°F)
- External temperatures after 5 minutes of full-brightness operation at 25°C (77°F) ambient: 30°C (86°F)
- External Temperature (steady state achieved) at 25°C (77°F): 37°C (99°F)

Electrical

- Operates between 100 V and 240 VAC at a frequency of 50/60 Hz, or at 208 VAC L-L.
- Maximum power consumption is 245 W.
- Up to 7 luminaires (13 A max) may be linked via power thru connector (8 luminaires 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:
 - 120 V: 55 A (first half-cycle)
 - 240 V: 59 A (first half-cycle)

Typical Power Consumption

	100 V		120 V		208 V		230 V	
	Power	Current	Power	Current	Power	Current	Power	Current
Idle	2.1 W	0.07 A	2.1 W	0.08 A	2.1 W	0.11 A	2.1 W	0.10 A
Direct at Full	198.5 W	2.00 A	196.5 W	1.65 A	193.8 W	0.98 A	193.7 W	0.90 A

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RDM Values

Parameter	Value	Description
Manufacturer ID	0x6574	Electronic Theatre Controls
Model ID	0x0290	ColorSource Spot V (MV)
	0x0291	ColorSource Spot V
DMX Start Address	0x00F0	Range = 1–512
DMX Personality	0x00E0	1 = Standard 2 = Direct 3 = 1 Channel 4 = RGB 5 = 5 Channel 6 = Studio 7 = Standard 16-bit 8 = Direct 16-bit 9 = Studio 16-bit
DMX Loss Behavior	0x810A	0 = Hold Last Look Off 1 = Hold Last Look On
Output Frequency	0x8123	0 = Standard (1.2 kHz) 1 = High (25 kHz)
Multiverse Universe	0x8C05	Set the Universe value.
Multiverse SHoW ID	0x8C00	Set the SHoW ID value. This value must match the SHoW ID value on the Multiverse transmitting device.
Multiverse SHoW Key	0x8C03	Set the SHoW Key value. This value must match the SHoW Key value on the Multiverse transmitting device.
Multiverse Radio Strength (Enable)	0x8C04	0 = Off 1 = Low 2 = Medium 3 = High 4 = Maximum

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FCC Compliance

ColorSource Spot V

(For any FCC matters):

Electronic Theatre Controls, Inc.
3031 Pleasant View Road
Middleton, WI 53562
+1 (608) 831-4116
etccconnect.com

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation. Visit etccconnect.com/products for current and complete compliance information including FCC compliance.



Note: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Any modifications or changes to this product not expressly approved by Electronic Theatre Controls, Inc. could void the user's authority to operate the product. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.*

This device contains a wireless module with the following identification numbers:

FCC ID: VU65995

ISED Compliance

This device contains a license-exempt transmitter/receiver that complies with Innovation, Science, and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Contains IC ID: 7480A-5995

CAN ICES-005 (A)

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Conformité ISDE

Cet appareil contient un émetteur/récepteur conforme aux CNR d'Innovation, Sciences et Développement économique Canada (ISDE) applicables aux appareils radio exempt de licence. Son fonctionnement est soumis aux deux conditions suivantes:

1. L'appareil ne doit pas produire d'interférences.
2. L'utilisateur de l'appareil doit accepter toute interférence, même si l'interférence est susceptible d'en compromettre le fonctionnement.

Contient ID IC: 7480A-5995

CAN NMB-005 (A)

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