Source Four LED Series 3

User Manual

Version 1.4.0

Part Number: 7462M1200-1.4.0 Rev: A

Released: 2025-10

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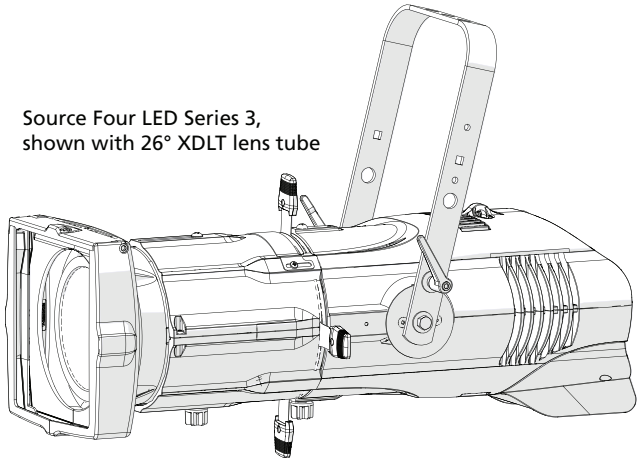
Introduction

With the Source Four LED Series 3 you get a fixture that breaks through the limitations of designing with other LED fixtures. Wireless control, NFC from a mobile device, and over a decade of LED color research come together in this impressive fixture. You get incredible brightness with the highest quality light and tunability available from an LED profile.

The Source Four LED Series 3 is available in two array types:

- **Lustr X8:** The next generation of the Lustr color system incorporates deep red into the already amazing x7 mix to create an even more rich, vibrant X8 color palette.
- **Daylight HDR:** Years of research resulted in an LED mix that yields the highest quality tunable white light, optimized for studio use.

Model	Array Type	Description
S4LEDS3L	Lustr X8	Light engine without barrel
S4LEDS3LS	Lustr X8	Light engine with barrel
S4LEDS3D	Daylight HDR	Light engine without barrel
S4LEDS3DS	Daylight HDR	Light engine with barrel



Source Four LED Series 3,
shown with 26° XDLT lens tube

Help from ETC Technical Services

If you are having difficulties and your problem is not addressed by this document, try the ETC support website at support.etcconnect.com or the main ETC website at etcconnect.com. If none of these resources are sufficient, visit etcconnect.com/contactETC and contact ETC Technical Services. Emergency technical support is available from all ETC offices outside of normal business hours.

When calling for help, take these steps first:

- Prepare a detailed description of the problem
- Go near the equipment for troubleshooting
- Find your ticket number if you have called in previously

Safety

WARNING: Note the following safety warnings before use:

- **Use the fixture in dry locations only, where humidity does not exceed 90 percent (non-condensing).**
- **Connect the fixture to a non-dimmable power source in order to avoid damage to the fixture's internal power supply and other electrical components. Using a dimmable power source can damage the fixture and will void the warranty.**
- **This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.**
- **Disconnect the fixture from power and DMX and allow it to cool before installing accessories or performing any cleaning and maintenance.**
- **Only use mounting hardware that is rated for the total weight of the fixture and accessories.**
- **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.**
- **In addition to primary suspension, attach a safety cable (or other approved safety device) to the fixture. Do not attach a safety cable to the fixture handle—only attach it to the safety cable attachment point. Safety cables must be rated to support ten times the fixture weight. Consult local standards to ensure that safety cables meet all requirements.**
- **Check that the accessory holder is locked and that any accessory safety cables are connected before mounting the fixture.**
- **When adjusting the fixture tilt, be aware that a lens tube adds weight to the front of the fixture. Use caution to control unintended fixture movement when adjusting the fixture tilt.**
- **Risk of eye injury. Do not stare directly into the light.**
- **Do not operate the fixture without the lens installed.**
- **Do not use this fixture with a damaged power lead. If the power lead (cord set) is damaged, it must be replaced.**
- **Do not use this fixture if the lens is deeply scratched or cracked. You must replace the lens when it is damaged.**

AVERTISSEMENT : Prendre connaissance des avertissements de sécurité suivants avant toute utilisation :

- **Ce produit doit être installé selon le code d'installation pertinent, par une personne qui connait bien le produit et son fonctionnement ainsi que les risques inhérents.**
- **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.**
- **N'utilisez que de la quincaillerie de montage adaptée au poids total des projecteurs et des accessoires.**
- **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.**
- **En plus de la suspension principale, fixez une chaîne de sécurité (ou tout autre dispositif de sécurité homologué) au projecteur. N'attachez pas la chaîne de sécurité directement à la poignée du projecteur. Utilisez toujours le point d'attache conçu pour la chaine de sécurité. Les chaînes de sécurité doivent être en mesure de supporter dix fois le poids du projecteur. Consultez les normes locales pour vous assurer que les câbles de sécurité respectent toutes les exigences.**
- **Vérifiez que le porte-accessoires est verrouillé et que les élingues de tous les accessoires sont bien attachées avant de monter le projecteur.**
- **Lorsque vous ajustez l'inclinaison de l'appareil, sachez que le nez optique ajoute du poids à l'avant de l'appareil. Soyez prudent afin de contrôler des mouvements involontaires du luminaire lors du réglage de son inclinaison.**
- **Risque de lésion oculaire. Ne fixez pas directement la lumière.**
- **N'utilisez pas le projecteur sans que la lentille soit installée.**
- **Ne pas utiliser ce projecteur avec un cordon d'alimentation endommagé. Si le cordon d'alimentation (câble) est abîmé, il doit être remplacé.**
- **N'utilisez pas ce projecteur si la lentille présente des rayures ou des fissures profondes. Il faut remplacer la lentille si elle est abîmée.**

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:

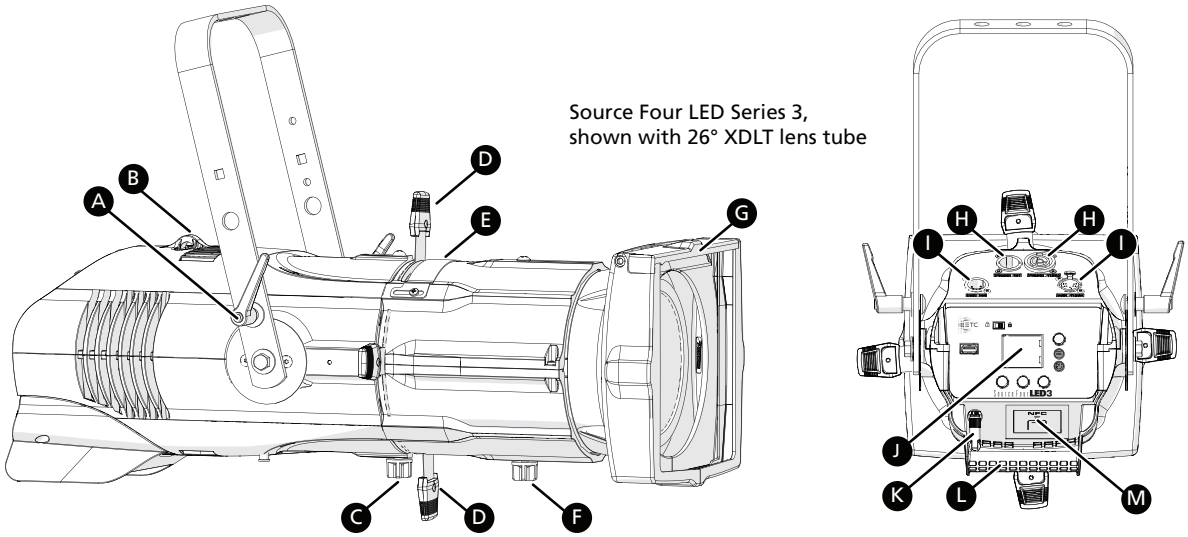
- *DMX512 connections must be Class 2.*
- *To ensure that cumulative leakage current on control wiring does not exceed 3.5 mA, connect no more than 32 fixtures on a single DMX run.*

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.
	Do not mount the fixture on or near a flammable surface.	Ne pas installer le projecteur sur ou à côté d'une surface inflammable.
	Do not stare at the operating light source.	Ne pas regarder la source de lumière lorsqu'elle fonctionne.
	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.

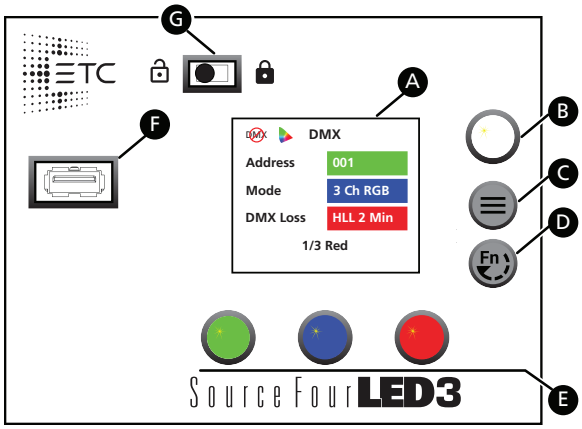
Overview

Fixture



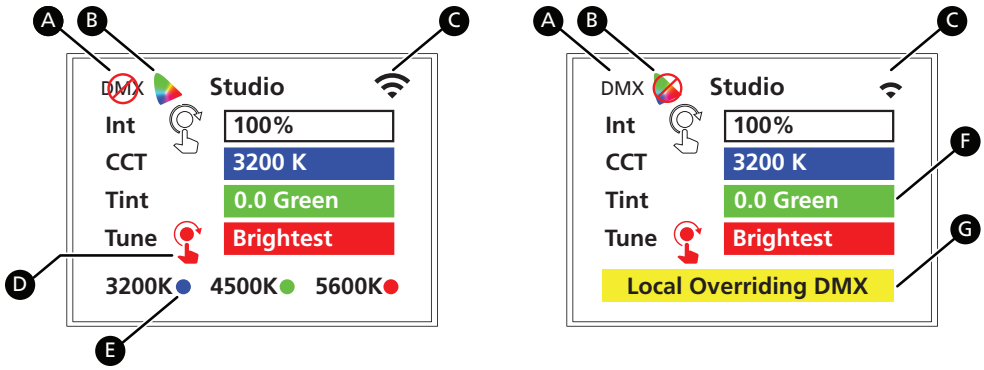
A	**Yoke tilt-lock:** Tilt the fixture as needed, and then turn the tilt-lock clockwise to lock the position. If necessary, pull the tilt-lock away from the stem to adjust the tilt-lock position.
B	**Safety cable attachment point:** Attach safety cable to the fixture housing.
C	**Barrel rotation knob:** Loosen to rotate the barrel, and then tighten to secure it (*page 15*).
D	**Shutters:** Use four framing shutters to shape the beam.
E	**Pattern holder slot and accessory slot:** Insert an A-size, B-size, or glass pattern holder, and insert an accessory, such as a drop-in iris or motorized pattern device (*page 15*).
F	**Beam focus knob:** Loosen to adjust the lens tube position, and then tighten to secure it (*page 14*).
G	**Accessory holder:** Insert a color frame or other accessory, and then lock the holder.
H	**Power In and Power Thru connectors:** powerCON® TRUE1 TOP connectors for power in and power thru (*page 13*).
I	**DMX In and DMX Thru connectors:** Five-pin XLR connectors for DMX/RDM in and thru.
J	**User interface:** View the fixture status, set the DMX address and mode, or set stand-alone options.
K	**Antenna:** For use when controlling the fixture using wireless DMX (*page 29*).
L	**Handle:** Use when focusing or carrying the fixture, but do not use as a safety cable connection point.
M	**NFC (Near Field Communication) tag:** Use the Set Light app to wirelessly configure the fixture, with or without power applied to the fixture (*page 30*).

User Interface



A	**Display:** The colors of options on the display correspond to the colors of the encoders below the display (**E**) and the Intensity encoder to the right of the display (**B**). See *Display on page 10*.
B	**Intensity encoder:** • When in DMX mode, press the Intensity encoder to enter Focus mode when focusing the fixture. • When configuring the fixture in one of the stand-alone modes, press the Intensity encoder to toggle between the current intensity and 0, or turn the Intensity encoder to modify the white fields on the display. See *Use Fixture in Stand-alone Mode on page 23*. • When navigating from the **Main Menu** screen, turn the Intensity encoder to scroll through menu options, and then press the Intensity encoder to select a menu option.
C	**Menu button:** Press to view the **Main Menu** screen and configure the fixture. Press the button again to return to the previous screen when you are setting configuration options.
D	**Function button:** Press the button, use the Intensity encoder to navigate to one of the following modes, and then press the Intensity encoder to select it: • **DMX**: View and set DMX parameters for the fixture. • **Studio**: Use one of three studio (white light) presets, or customize the presets. • **Color**: Use one of 12 color presets, or customize the presets. • **Gel**: Choose from a list of common gel colors. • **Effects**: Use a sequence, or customize a sequence. • **Preset**: Use one of 12 presets (color preset + fade time), or customize the presets. See *Use Fixture in Stand-alone Mode on page 23* and *Use Fixture in DMX Mode on page 16*.
E	**Encoders (Red, Green, Blue):** The colors of encoders correspond to options on the display. Press to activate the options at the bottom of the display, or turn to modify the values on the display.
F	**USB port:** Use for updating firmware, saving and loading fixture configuration settings, or saving error logs via a flash drive. See *Troubleshooting and Maintenance on page 32*.
G	**UI lock:** Set this switch to lock the UI. This prevents inadvertent changes to the UI. See *Lock the Display on page 31*.

Display



A	**DMX indicator:** Appears solid when DMX is present, and blinks with a red circle-and-slash when DMX is lost.
B	**Gamut indicator:** Red circle-and-slash indicates when the current color is out-of-gamut.
C	**Wireless indicator:** Displays when the fixture is receiving wireless DMX. See *Set Up Multiverse Wireless Communication on page 29*. • Signal strength is indicated by the number of bars (3 bars is highest quality, 1 bar is lowest quality). • The wireless indicator appears solid when the fixture is receiving DMX, and blinks when DMX is lost. When the fixture is not connected to a transmitter, the wireless indicator does not display.
D	**Press-and-turn:** Indicates that additional options are available when you press and turn the encoder. See *Studio Mode on page 24*.
E	**Encoder press:** Press the matching encoders to activate the options on the bottom row of the display.
F	**Encoder turn:** Turn the matching encoders to modify the values in the fields.
G	**Messages and warnings:** Text at the bottom of the screen provides helpful information in yellow (for example, "Config Received" or "DMX Control Resumed") or important warnings in red (for example, "LED High Temp" or "Array Failure").

What's Controlling the Fixture?

The Source Four LED Series 3 follows two rules to determine what is controlling the fixture:

- **Latest Takes Precedence:** Whatever change in level or color that the fixture receives most recently is the one that the fixture follows.
- **Wired DMX over Wireless DMX:** If both wired DMX and wireless DMX are present, the fixture follows the wired DMX.

Sample Event	What's Controlling the Fixture?
You select a Gel in the **Gel** stand-alone screen.	Local control (stand-alone Gel)
The fixture receives wired DMX.	Wired DMX
DMX is lost.	Local control (stand-alone Gel)
The fixture receives wireless DMX.	Wireless DMX
The fixture receives wireless DMX and wired DMX.	Wired DMX
You select a Preset in the **Preset** stand-alone screen.	Local control (stand-alone Preset)
The fixture receives wired DMX	Wired DMX

Set Up and Focus the Fixture

WARNING: Note the following safety warnings before use:

- **Only use mounting hardware that is rated for the total weight of the fixture and accessories.**
- **In addition to primary suspension, attach a safety cable (or other approved safety device) to the fixture. Do not attach a safety cable to the fixture handle—only attach it to the safety cable attachment point. Safety cables must be rated to support ten times the fixture weight. Consult local standards to ensure that safety cables meet all requirements.**
- **Check that the accessory holder is locked and that any accessory safety cables are connected before mounting the fixture.**

AVERTISSEMENT : Prendre connaissance des avertissements de sécurité suivants avant toute utilisation :

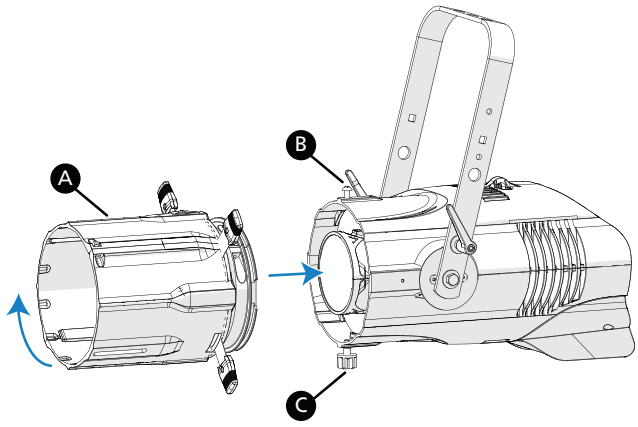
- **N'utilisez que de la quincaillerie de montage adaptée au poids total des projecteurs et des accessoires.**
- **En plus de la suspension principale, fixez une chaîne de sécurité (ou tout autre dispositif de sécurité homologué) au projecteur. N'attachez pas la chaîne de sécurité directement à la poignée du projecteur. Utilisez toujours le point d'attache conçu pour la chaine de sécurité. Les chaînes de sécurité doivent être en mesure de supporter dix fois le poids du projecteur. Consultez les normes locales pour vous assurer que les câbles de sécurité respectent toutes les exigences.**
- **Vérifiez que le porte-accessoires est verrouillé et que les élingues de tous les accessoires sont bien attachées avant de monter le projecteur.**

Install a Shutter Barrel

You can use either an XDLT shutter barrel or a legacy Source Four shutter barrel. (For legacy Source Four shutter barrels, you must use the legacy Source Four lens tubes, too.)

WARNING: XDLT lens tubes and the XDLT shutter barrel are not compatible with Source Four incandescent fixtures. Use with incandescent fixtures will result in damage to the shutter barrel and will void the ETC warranty.

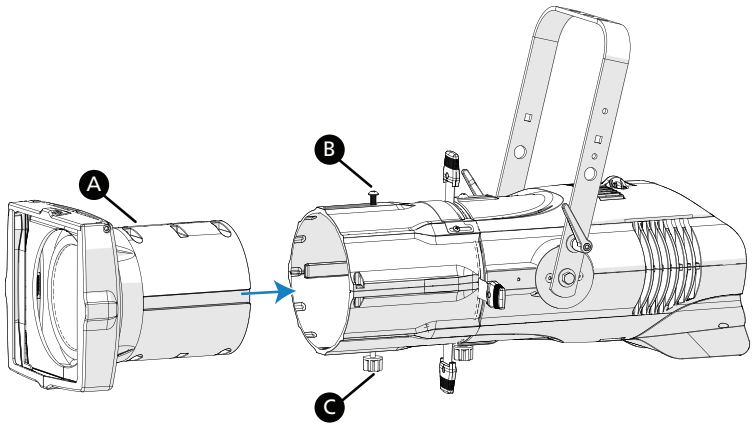
Insert the shutter barrel (A) into the light engine, and rotate clockwise 45 degrees. Secure with the provided screw (B) and barrel rotation knob (C).



Install a Lens Tube

You can use either XDLT lens tubes or legacy Source Four lens tubes. (For legacy Source Four lens tubes, you must use the legacy Source Four shutter barrel, too.) For guidance on selecting lens tubes for maximum output and highest quality imaging, see the Source Four LED Series 3 datasheet at etcconnect.com.

Slide the lens tube (**A**) into the shutter barrel, and secure with the provided screw (**B**) and beam focus knob (**C**).

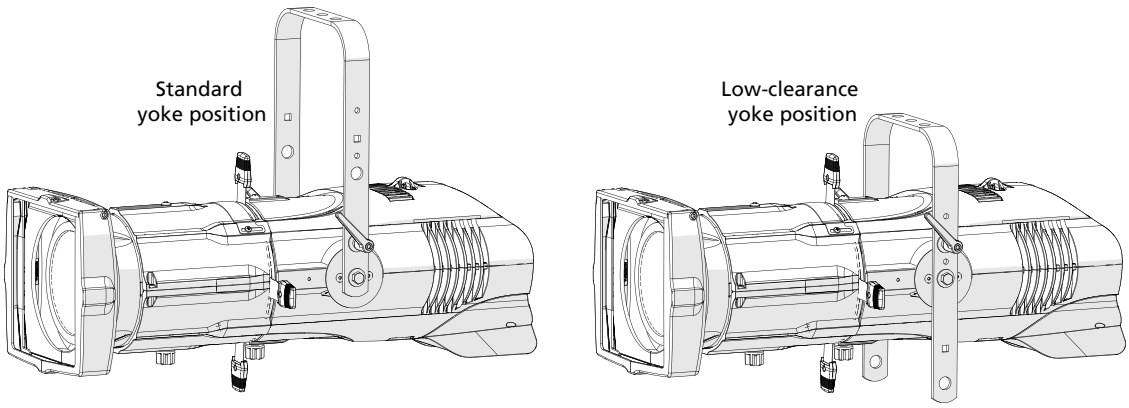


Mount the Fixture

Mount the fixture using appropriate hardware. If necessary, adjust the yoke position to accommodate a low-clearance mount.

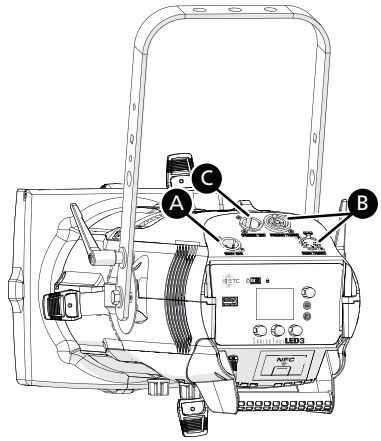
Adjust the Yoke Position

1. Remove the yoke tilt-locks, washers, and hex bolts from both sides of the fixture.
2. Raise or lower the fixture to the desired position within the yoke.
3. Reinstall the hex bolts, washers, and tilt-locks.
4. Tighten the yoke tilt-locks to secure the fixture in position.



Connect Power and Data

If you ordered a Source Four fixture without a power connector, first see *Wire the Power Connector (If Needed) on page 13*.



1. Attach 5-pin XLR cable to the DMX In connector (**A**) if you are using external control.
2. Plug the XLR cable (if using) into the DMX source or data daisy-chain.
3. Use the Power Thru and DMX Thru connectors (**B**) to connect other fixtures using the following guidelines:
   - Link up to 5 fixtures via Power Thru connector when used with R20 Relay Module, ER15 Relay Module, or Unison Echo Relay Panel (consult breaker-trip curves when used with other equipment). When linking fixtures, do not exceed the rating of the power connectors (20 A in 120 V/60 Hz regions and 16 A in 240 V/50 Hz regions).
   - Link up to 32 device loads on the DMX daisy chain. Source Four LED Series 3 fixtures are self-terminating when a DMX cable is not connected to the DMX Thru connector.
4. Supply power to the fixture by attaching the power cable to the Power In connector (**C**), and then plugging the power cable into AC power (100–240 VAC, 50/60 Hz) on a non-dimmable circuit.

Wire the Power Connector (If Needed)

If you ordered a Source Four LED Series 3 without a power connector, wire the connector in accordance with all national and local electrical codes:

- Brown = Live
- Blue = Neutral
- Green/Yellow = Protective earth

Focus the Fixture

1. Apply power to the fixture, and wait until the fixture has booted up (the ETC splash screen displays during boot up).
2. Press any encoder to "wake" the display. If necessary, navigate to the **DMX** screen: Press the **Function** button ( ), use the Intensity encoder to navigate to **DMX Mode**, and then press the Intensity encoder to select it.
3. Press any encoder to leave the view-only screen, and then press the Intensity encoder to turn on the LED array. The **Focus Mode** screen displays:
   - The display shows a timeout countdown to indicate how long the LED array will remain on at 100% intensity. You can turn the Intensity encoder to reset the timeout countdown to 5 minutes.
   - **Current Tilt** displays the current angle of the fixture. You can use the blue encoder to set a **Target** for the angle. This angle is saved to the fixture configuration.

WARNING: When adjusting the fixture tilt, be aware that a lens tube adds weight to the front of the fixture. Use caution to control unintended fixture movement when adjusting the fixture tilt.

AVERTISSEMENT : Lorsque vous ajustez l'inclinaison de l'appareil, sachez que le nez optique ajoute du poids à l'avant de l'appareil. Soyez prudent afin de contrôler des mouvements involontaires du luminaire lors du réglage de son inclinaison.

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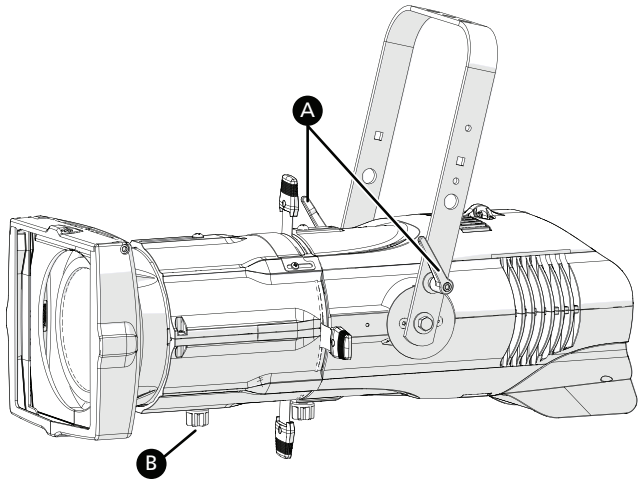
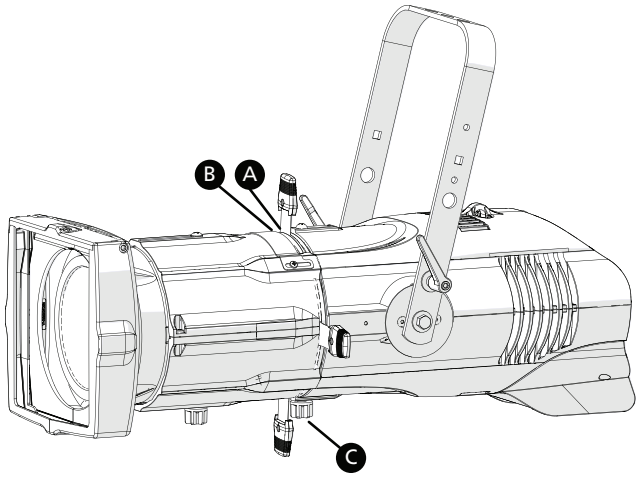
4. Adjust the fixture to the desired position:
   a. Loosen the yoke tilt-locks (**A**), tilt the fixture as needed, and then tighten the tilt-locks. As you adjust the fixture, the display shows the current angle of the fixture (0 degrees = straight down, 180 degrees = straight up). If you set a target for the angle, the **Target** value turns green when the **Current Tilt** value closely matches the target.
   b. Loosen the beam focus knob (**B**), adjust the lens tube position as needed, and then tighten the knob.
5. Press the Intensity encoder to turn off the LED array.



Shape the Beam

Shape the beam by adjusting the shutters, adding a pattern, adding a drop-in iris or motorized pattern, or rotating the shutter barrel.



Insert a Pattern

The pattern holder slot (**A**) is on the top side of the barrel and in front of the shutters. You can insert A-size, B-size, and glass pattern holders in the pattern holder slot.

To clean up edge effects, you can use a soft focus diffuser behind the pattern in the A-size pattern holder.

Insert an Accessory

You can insert an accessory, such as a drop-in iris or motorized pattern, in the accessory slot. The accessory slot (**B**) is located on top of the shutter barrel and in front of the pattern holder slot.

1. Loosen the thumb screws on the accessory slot cover. Do not remove the screws.
2. Slide the cover completely forward to expose the accessory slot.
3. Insert the iris or motorized pattern device. For an iris, install the flat side toward the shutters and make sure that the iris handle extends from the slot.
4. Slide the slot cover back toward the shutters until it meets the iris handle. Leave enough space to move the iris handle.
5. Secure the accessory slot cover by tightening the screws.

Rotate the Shutter Barrel

The barrel rotation knob (**C**) is located directly behind the shutters on the underside of the reflector housing.

1. Loosen, but do not remove the barrel rotation knob.
2. Rotate the shutter barrel to the desired position (up to 25° in either direction from the centered position).
3. Tighten the barrel rotation knob to lock the shutter barrel in place.

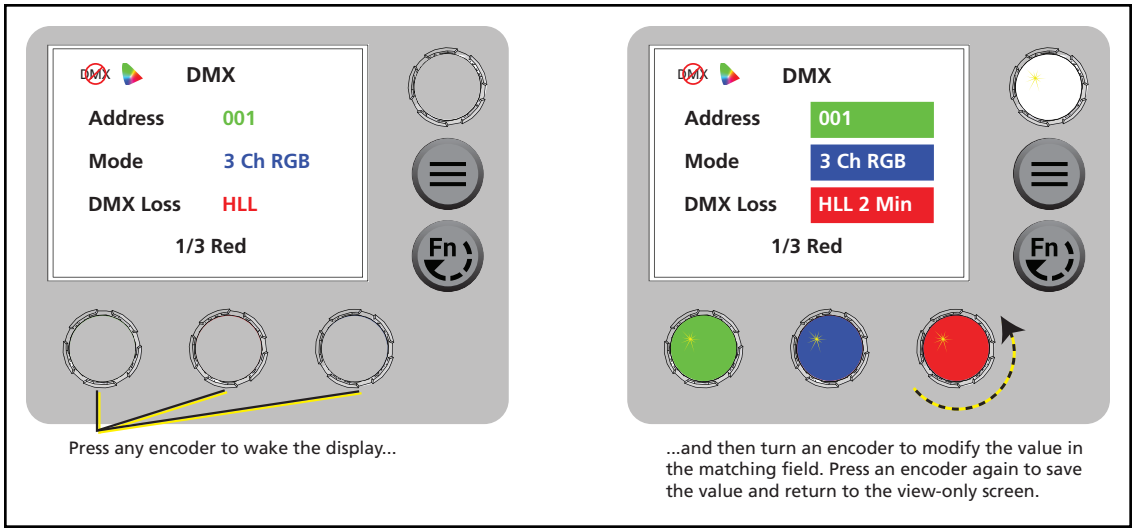
Use Fixture in DMX Mode

After you connect power and data to the fixture and provide DMX, press the **Function** button ( ), use the Intensity encoder to navigate to **DMX Mode**, and then press the Intensity encoder to select it. In the **DMX** screen, you can set the DMX address, DMX mode, and DMX loss behavior.

Note: *You can also set these values using RDM, or by pressing the **Menu** button ( ), turning the Intensity encoder to navigate to **DMX Settings**, and then pressing the Intensity encoder to select it. Use the **Menu** button to change DMX settings when using the fixture in stand-alone mode.*

The **DMX** screen displays the current DMX values. Press any of the encoders to "wake" the display, and then press any of the encoders to edit the values. The colors of the encoders correspond to options on the display. Turn an encoder to modify the corresponding value, and then press the encoder to save all values on the screen.

After you wake the display, you can press the Intensity encoder to enter Focus mode. See *Focus the Fixture on page 14*.



Note: *If the colors on the display or on the encoders are difficult to discern, you can navigate based on position rather than color:*

- *Top value = Left encoder*
- *Middle value = Center encoder*
- *Bottom value = Right encoder*

Set DMX Address

In the **DMX** screen, turn the green encoder to set the DMX address. The default address is 001.

Set DMX Mode

In the **DMX** screen, turn the blue encoder to set the DMX mode. The 16-bit modes provide greater resolution but require more channels.

- **Direct**: Direct control of emitters. This is the default mode.
- **Expanded**: Combines RGB control with Studio control. The **Mix** control channel in **Expanded** mode moves control from full **RGB** mode to full **Studio** mode.
- **Studio**: **CCT** (Correlated Color Temperature) control, **Tint** control (from **-**10 to 10 green), and **Tuning** control ranging from **Brightest** to **Spectral**.
- **3 Ch RGB**: Standard RGB control. In **RGB** mode, the **Curve** is always set to **Incandescent** and the **Fan** is always set to **Auto**.
- **1 Ch**: 1-channel intensity control for either a gel color, preset, or studio preset. (See *Set Options for 1 Ch Mode*.) In **1 Ch** mode, the **Curve** is always set to **Incandescent** and the **Fan** is always set to **Auto**.
- **HSIC**: Hue, Saturation, Intensity, and Color Temperature (white point) for compatibility with HSI console profiles.
- **Direct 16bit**: Direct control of emitters. This is a 16-bit mode.
- **Expanded 16bit**: Combines RGB control with Studio control. The **Mix** control channel in **Expanded** mode moves control from full **RGB** mode to full **Studio** mode. This is a 16-bit mode.
- **Studio 16bit**: **CCT** (Correlated Color Temperature) control, **Tint** control (from **-**10 to 10 green), and **Tuning** control ranging from **Brightest** to **Spectral**. This is a 16-bit mode.
- **HSIC 16bit**: Hue, Saturation, Intensity, and Color Temperature (white point) for compatibility with HSI console profiles. This is a 16-bit mode.

Set Options for 1 Ch Mode

1 Ch mode provides 1-channel intensity control for a gel color, preset, or studio preset.

1. In the **DMX** screen, turn the blue encoder to set the DMX mode to **1 Ch**.
2. Press the blue encoder (for the **Edit** icon). The **1 Ch Settings** screen displays.
3. Use the Intensity encoder to set the **Type** to **Gel**, **Preset**, or **Studio**.
4. Turn the encoders to change the corresponding values, which correspond to the similar settings in stand-alone modes. See *Gel Mode on page 26*, *Preset Mode on page 28*, or *Studio Mode on page 24* for more information.
5. Press the green encoder for the **Save** icon ( ) to save your settings, or press the red encoder for the **Cancel** icon ( ) to discard your changes.

DMX Modes

8-bit DMX Modes

	Direct (Daylight HDR)	Direct (Lustr X8)	Expanded	Studio	3 Ch RGB	1 Ch	HSIC
RDM ID ▶	1	1	2	3	4	5	6
DMX Channel ▼							
1	Intensity	Intensity	Intensity	Intensity	Red	Intensity	Hue Coarse
2	Deep Red	Deep Red	CCT*	CCT*	Green		Hue Fine
3	Red	Red	Tint*	Tint*	Blue		Saturation
4	Mint	Amber	Tuning*	Tuning*			Intensity
5	Cyan	Lime	Mix*	Strobe*			CCT*
6	Blue	Green	Red	Curve*			Strobe*
7	Indigo	Cyan	Green	Fan*			Curve*
8	Strobe*	Blue	Blue				Fan*
9	Curve*	Indigo	Strobe*				
10	Fan*	Strobe*	Curve*				
11		Curve*	Fan*				
12		Fan*					

* See *DMX Control Channels on page 20* for the DMX values that set these parameters.

16-bit DMX 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.

	Direct 16bit (Daylight HDR)	Direct 16bit (Lustr X8)	Expanded 16bit	Studio 16bit	HSIC 16bit
RDM ID ▶	7	7	8	9	10
DMX Channel ▼					
1	Intensity Coarse	Intensity	Intensity Coarse	Intensity Coarse	Hue Coarse
2	Intensity Fine	Intensity Fine	Intensity Fine	Intensity Fine	Hue Fine
3	Deep Red Coarse	Deep Red Coarse	CCT Coarse*	CCT Coarse*	Saturation Coarse
4	Deep Red Fine	Deep Red Fine	CCT Fine *	CCT Fine *	Saturation Fine
5	Red Coarse	Red Coarse	Tint *	Tint*	Intensity Coarse
6	Red Fine	Red Fine	Tuning*	Tuning*	Intensity Fine
7	Mint Coarse	Amber Coarse	Mix*	Strobe*	CCT Coarse*
8	Mint Fine	Amber Fine	Red Coarse	Curve*	CCT Fine*
9	Cyan Coarse	Lime Coarse	Red Fine	Fan*	Strobe*
10	Cyan Fine	Lime Fine	Green Coarse		Curve*
11	Blue Coarse	Green Coarse	Green Fine		Fan*
12	Blue Fine	Green Fine	Blue Coarse		
13	Indigo Coarse	Cyan Coarse	Blue Fine		
14	Indigo Fine	Cyan Fine	Strobe*		
15	Strobe*	Blue Coarse	Curve*		
16	Curve*	Blue Fine	Fan*		
17	Fan*	Indigo Coarse			
18		Indigo Fine			
19		Strobe*			
20		Curve*			
21		Fan*			

* See *DMX Control Channels on page 20* for the DMX values that set these parameters.

DMX Control Channels

Parameter	DMX Value	Description	Comments
CCT	0	3200 K	
	1–165	1900–6000 K	CCT values increase by 25 for each DMX value (1 = 1900 K, 2 = 1925 K, etc.).
	166–254	6050–10,450 K	CCT values increase by 50 for each DMX value (166 = 6050 K, 167 = 6100 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.
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	
	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. When the fixture gets too hot, the fixture reduces the intensity instead of adjusting the fan.
	21–248	Linear Increase in Speed	When the fixture gets too hot, the fixture reduces the intensity instead of adjusting the fan.
	249	Fast	Maximum fan speed (100%). When the fixture gets too hot, the fixture reduces the intensity instead of adjusting the fan.
	250–255	Auto	
Mix	0	Full Studio	
	1–254	Linear interpolation from Studio to RGB	
	255	Full RGB	

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	
	1–127	Linear between +10 and 0	Tint shifts toward green (+10) as the DMX value decreases to 1.
	128	Neutral	
	129–255	Linear between 0 and -10	Tint shifts toward magenta (-10) as the DMX value increases to 255.
Tuning (Color calculation method)	0–49	Brightest	Calculation uses a combination of LEDs to produce the brightest version of the selected chromaticity.
	50–149	Spectral	Calculation uses a combination of LEDs to produce the best spectral match of the selected chromaticity. The Spectral option results in higher color rendering, but lower intensity levels.
	150–170	Expanded mode: Reserved	This range is reserved for future development, but currently outputs the Brightest color calculation method.
		Studio mode: Metamer (linear adjustment from -1 to 1)	Manually tune the metamer using the Spectral calculation method.
	171–255	Reserved	This range is reserved for future development, but currently outputs the Brightest color calculation method.

Capture the Current DMX Look

You can record the current DMX look to a preset when in one of these five DMX modes: **3 Ch RGB**, **Studio**, **Expanded**, **Studio 16bit**, and **Expanded 16bit**.

1. In the **DMX** screen, press the green encoder (for the **Snapshot** icon). The **DMX Snapshot** screen displays.
2. Turn the green encoder to select a preset, and then press the green encoder to capture the current DMX look to that preset. The current DMX look is recorded, and the display returns to the **DMX** screen.

Set DMX Loss Behavior

In the **DMX** screen, turn the red encoder to set the DMX loss behavior. Options are:

- **Instant**: If something is playing in the background (for example, a preset), that background selection automatically plays. If nothing is active in the background, the fixture goes dark.
- **HLL 2min**: Hold last look for two minutes or until you make local changes. If you make no changes during the two minutes, the fixture fades out over two seconds.
- **HLL**: Hold last look until you make local changes. This is the default setting.
- **Preset 12**: Two-second fade from last look to Preset 12.

Use Fixture in Stand-alone Mode

After you connect power to the fixture, press the **Function** button ( ), use the Intensity encoder to navigate to one of the following stand-alone modes, and then press the Intensity encoder to select it:

- **Studio**: Use one of three studio (white light) presets, or customize the presets.
- **Color**: Use one of 12 color presets, or customize the presets.
- **Gel**: Choose from a list of common gel colors.
- **Effects**: Use a sequence, or customize a sequence.
- **Preset**: Use one of 12 presets (color preset + fade time), or customize the presets.

The colors of options on the display correspond to the colors of the encoders below the display and the Intensity encoder to the right of the display. Turn an encoder to modify the corresponding value on the display, or press an encoder to activate the corresponding option at the bottom of the display. Press the Intensity encoder to toggle between the current intensity and 0%.

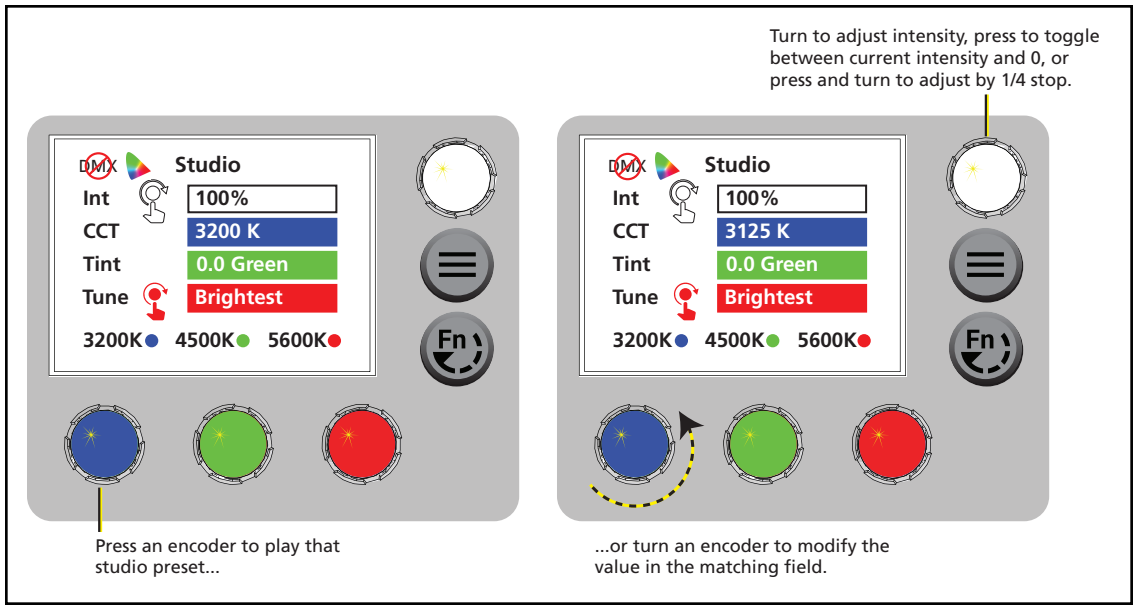
If the fixture is connected to other Source Four LED Series 3 fixtures that are in the same stand-alone mode, the connected fixtures will play the same preset or effect.

Note: *If the colors on the display or on the encoders are difficult to discern, you can navigate based on position rather than color:*

- *Intensity = Intensity encoder*
- *From top to bottom (in main section of display):*
  - *Top value = Left encoder*
  - *Middle value = Center encoder*
  - *Bottom value = Right encoder*
- *From left to right (at bottom of display):*
  - *Left value = Left encoder*
  - *Center value = Center encoder*
  - *Right value = Right encoder*

Studio Mode

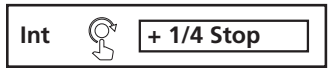
1. Press the **Function** button ( ), use the Intensity encoder to navigate to **Studio Mode**, and then press the Intensity encoder to select it.



2. Press the color encoder that matches the studio preset you want to use (Blue = 3200 K, Green= 4500 K, Red= 5600 K).

More Options

- **Turn off** the preset: Press the Intensity encoder to toggle the intensity value from the current value to 0. Press the Intensity encoder again to toggle back to the previous intensity value.
- **Modify** the preset: Turn the encoders to change the corresponding values. For example, turn the Intensity encoder to change the intensity value, or turn the blue encoder to change the color temperature value.
- Modify the **intensity**: Turn the Intensity encoder to adjust the intensity, or press and turn the Intensity encoder to adjust the intensity by 1/4 stop.



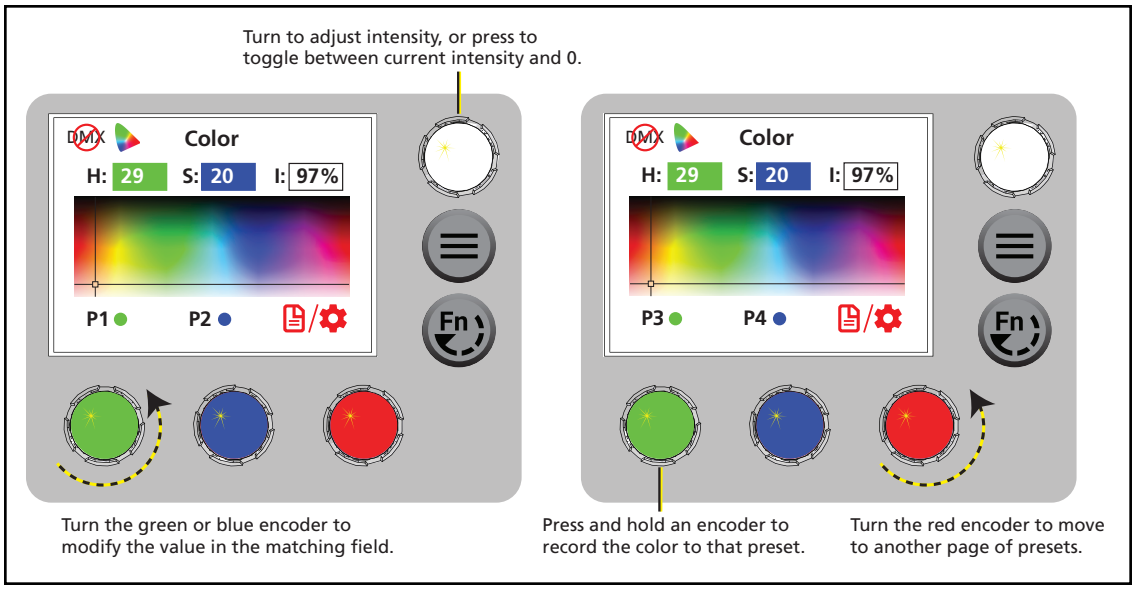
- Modify the **tuning**: Press and turn the red encoder to change the value to **Metamer**, and then turn the red encoder to change the **Tune** value (the "recipe" of the metamer). Press and turn the red encoder again to return to the **Brightest** or **Spectral** options. For more information on the three methods, see *Tuning (Color calculation method) on page 21*.

- **Revert** to the original preset: Press the encoder that corresponds to the preset again to restore the original values.
- **Save** the modified preset: Press and hold the encoder that corresponds to the preset that you want to re-record. The display shows a three-second countdown before re-recording the preset.

Note: *The **CCT**, **Tint**, and **Tune** values match the values that are available when the DMX mode is set to **Studio** or **Studio 16bit**. See DMX Control Channels on page 20.*

Color Mode

1. Press the **Function** button ( ), use the Intensity encoder to navigate to **Color Mode**, and then press the Intensity encoder to select it.



2. Turn the encoders to change the corresponding values. For example, turn the Intensity encoder to change the intensity value, or turn the green encoder to change the hue value. The crosshairs on the display indicate the approximate color.

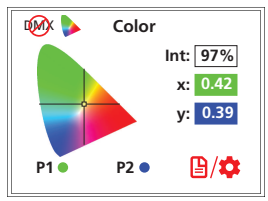
   You can use a preset as a starting point for a color by pressing the color encoder that matches the preset. Turn the red encoder to move to another page of presets.

Number	Preset
1	3200 K
2	4500 K
3	5600 K
4	Yellow
5	Dark Straw
6	Red

Number	Preset
7	Medium Pink
8	Magenta
9	Medium Blue
10	Primary Blue
11	Blue Green
12	Green

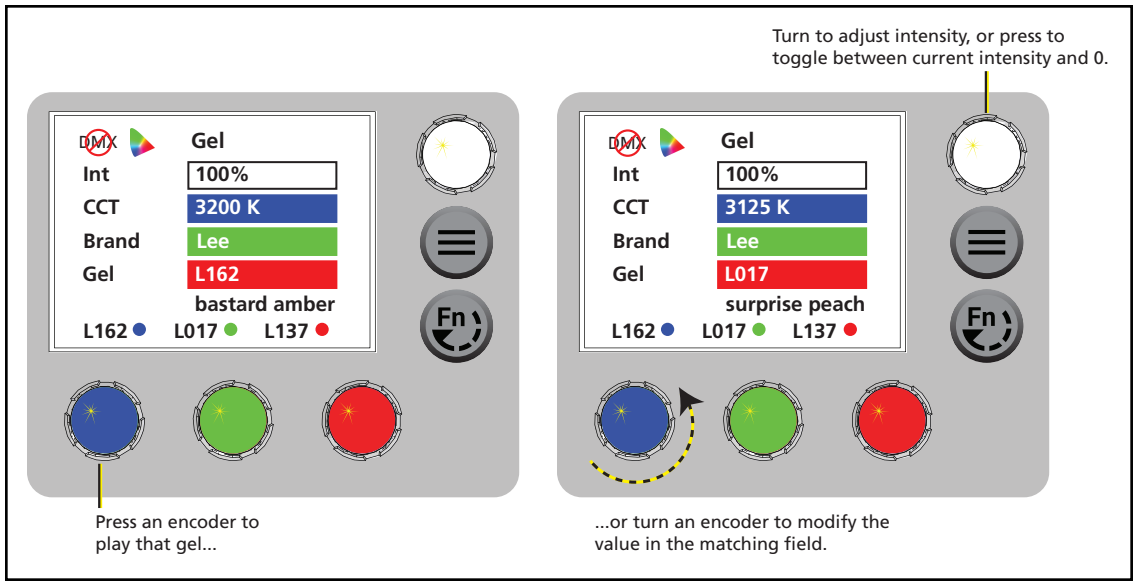
More Options

- **Turn off** the color: Press the Intensity encoder to toggle the intensity value from the current value to 0. Press the Intensity encoder again to toggle back to the previous intensity value.
- **Revert** to the original color of a preset: Press the encoder that corresponds to the preset again to restore the original values.
- **Save** the color to a preset: Press and hold the encoder that corresponds to the preset that you want to re-record. The display shows a three-second countdown before re-recording the preset. Changes that you make to presets in the **Color** screen also affect presets in the **Effects** screen and the **Preset** screen.
- **Change** the color selection mode: Press the red encoder (for the **Settings** icon) to change between **Hue/Saturation** (default color selection mode) and **x,y**. In **x,y** mode, you set the **x** and **y** coordinates within the CIE 1931 chromaticity diagram.



Gel Mode

1. Press the **Function** button ( ), use the Intensity encoder to navigate to **Gel Mode**, and then press the Intensity encoder to select it.



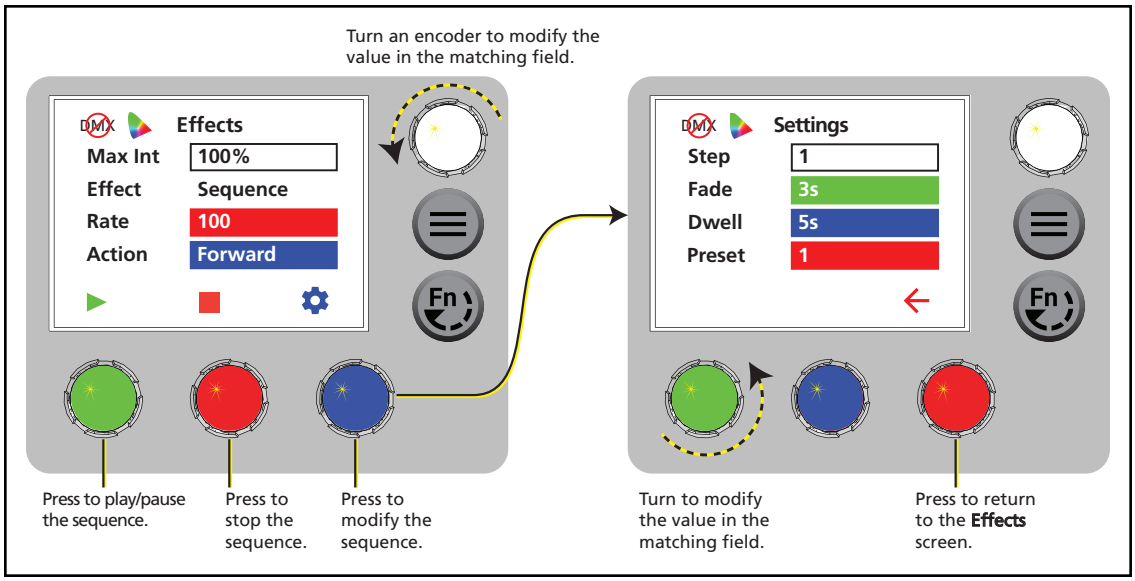
2. Turn the encoders to change the corresponding values. For example, turn the red encoder to change the **Gel** value, or turn the blue encoder to change the **CCT** value.

More Options

- **Turn off** the gel: Press the Intensity encoder to toggle the intensity value from the current value to 0. Press the Intensity encoder again to toggle back to the previous intensity value.
- **Save** the color to a gel preset: Press and hold an encoder to save the current gel to that encoder. The display shows a three-second countdown before re-recording the gel preset.

Effects Mode

1. Press the **Function** button ( ), use the Intensity encoder to navigate to **Effects Mode**, and then press the Intensity encoder to select it.



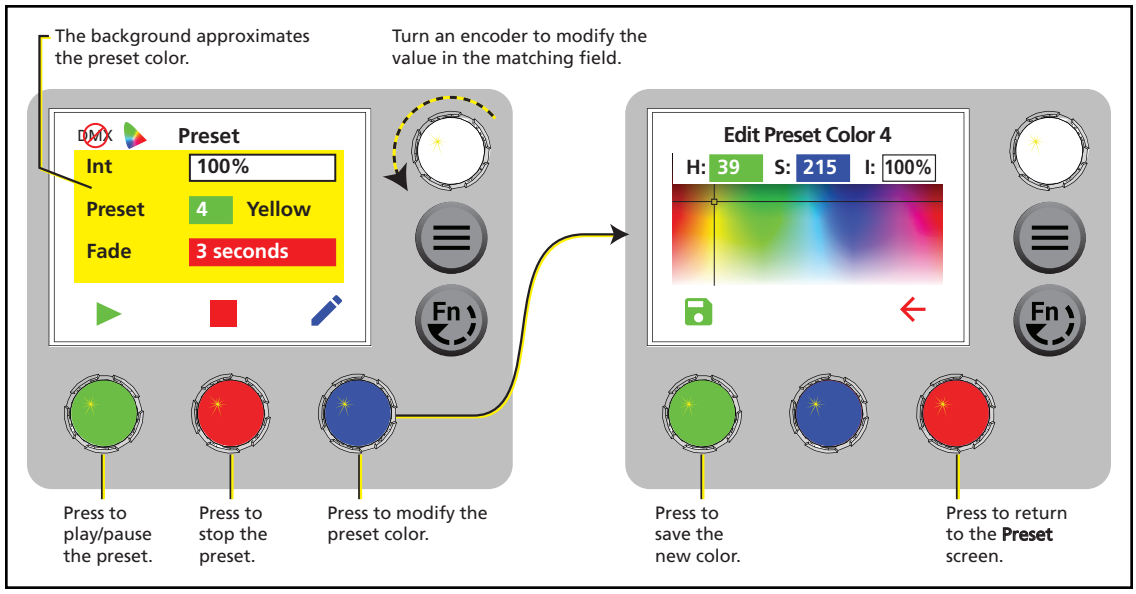
2. Press the green encoder to play the sequence.

More Options

- **Pause** the sequence: Press the green encoder again. The green encoder toggles between play and pause. When you press the green encoder to play the effect again, the fixture resumes the effect from where you paused it.
- **Stop** the sequence: Press the red encoder. When you press the green encoder to play the effect again, the fixture plays the effect from the beginning.
- **Modify** the sequence: Turn the encoders to change the corresponding values. To modify the sequence further, press the blue encoder (for the **Settings** icon) to modify the settings for the sequence.
- **Push** the sequence to connected fixtures: Press the **Menu** button ( ), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **Push Effects**. When the screen prompts you to confirm, press the green encoder (for the **OK** icon) to continue.

Preset Mode

1. Press the **Function** button ( ), use the Intensity encoder to navigate to **Preset Mode**, and then press the Intensity encoder to select it.



2. Turn the green encoder to select a preset, and then press the encoder to play the preset.

Number	Preset
1	3200 K
2	4500 K
3	5600 K
4	Yellow
5	Dark Straw
6	Red

Number	Preset
7	Medium Pink
8	Magenta
9	Medium Blue
10	Primary Blue
11	Blue Green
12	Green

More Options

- **Pause** the preset fade: Press the green encoder to toggle between play and pause.
- **Stop** the preset: Press the red encoder.
- **Modify** the preset: Turn the Intensity encoder to change the intensity, or turn the red encoder to change the fade value.
- **Modify** the preset **color**: Press the blue encoder (for the **Edit** icon). In the **Edit Preset Color** screen, turn the encoders to change the corresponding values. The crosshairs on the display indicate the approximate color. Press the green encoder (for the **Save** icon) to save the new color to the preset.
- **Push** the preset to connected fixtures: Press the **Menu** button ( ), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **Push Presets**. When the screen prompts you to confirm, press the green encoder (for the **OK** icon) to continue.

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. Press the **Menu** button ( ), turn the Intensity encoder to navigate to **Multiverse Settings**, and then press the Intensity encoder to select it.
2. Turn the Intensity encoder to set the **Universe** value.
3. Turn the green encoder to enter the **SHoW ID** value. This value must match the SHoW ID value on the Multiverse transmitting device. The default value is 24100.
4. Turn the blue encoder to enter the **SHoW Key** value. This value must match the SHoW Key value on the Multiverse transmitting device.
5. Turn the red encoder to set the **Power** value. This value sets the power level of the wireless transmitter on the fixture. 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.
6. Press the green encoder for the **Save** icon ( ) to save your settings, or press the red encoder for the **Cancel** icon ( ) to discard your changes.

When the fixture is connected to a Multiverse transmitter:

- The wireless indicator on the main screen ( ) indicates signal strength by the number of bars (3 bars is highest quality, 1 bar is lowest quality).
- The wireless indicator appears solid when the fixture is receiving DMX, and blinks when DMX is lost. When the fixture is not connected to a transmitter, the wireless indicator does not display.
- The **Multiverse Settings** screen displays the signal quality (**Qual**), signal strength (**RSSI**), and radio connection status (**Con**).

Setting	Values	Description
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.
Signal Strength	-20 – -120	Display of RSSI (Received Signal Strength indicator) in dBm, ranging from -20 (strongest) to -120 (weakest).
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.

For more information on these values, download the *Multiverse Wireless Setup Information Guide* at etcconnect.com.

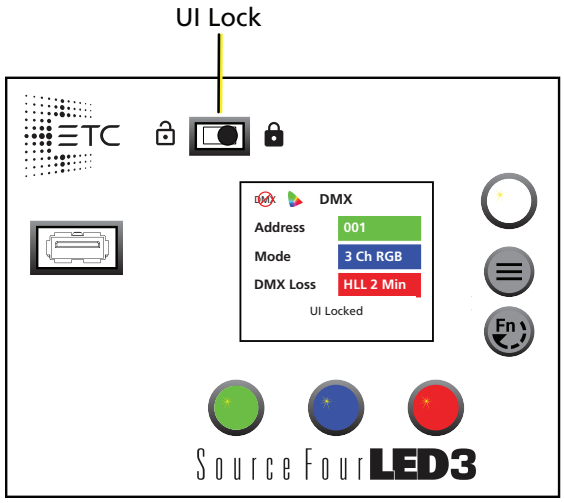
Configure Fixtures Using the Set Light App

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. (You must be within Bluetooth range of the Multiverse transmitter or gateway in order to use the app in this mode.) Visit etcconnect.com/FixtureApps for more information about the Set Light app.

Control and Customize the Display

Lock the Display

Set this switch to lock the UI and prevent any changes to the fixture setup. The display indicates when the UI is locked.



Adjust the Display Settings

1. Press the **Menu** button (≡), turn the Intensity encoder to navigate to **Local Settings**, and then press the Intensity encoder to select it.
2. In the **Local Settings** screen, turn the Intensity encoder to select the display parameter that you want to modify, and then press the Intensity encoder to modify it.
3. Turn the Intensity encoder to modify the value of the parameter, and then press the Intensity encoder to save the value.
4. Press the **Menu** button (≡) or press the red encoder until you return to the **Main Menu** screen when you are done.

Parameter	Description
Backlight	Set the brightness of the display backlight from 10–100%.
Timeout	Set the time that the display will remain illuminated after the last time you press an encoder or button. Options are: • Never (display is always illuminated) • 30 seconds • 1 minute (default) • 5 minutes • 15 minutes
Display	Sets the behavior of the display in relation to the position of the fixture: • Auto: Display inverts as the fixture moves. • Normal: Display matches the orientation of the fixture labeling. • Invert: Display is inverted in relation to the orientation of the fixture labeling.
Encoders	Set the brightness of the four encoders from 10–100%.

Troubleshooting and Maintenance

Troubleshooting Checklist

If you cannot find the resources that you need in this document, contact ETC Technical Services (see *Help from ETC Technical Services on page 6*).

What I'm Seeing	What Might Be Wrong	What To Try
Color on the fixture does not match another fixture, or color on the fixture does not match expected color output	• Color is out-of-gamut. • Temperature sensor is failing.	• Sending an out-of-gamut color to a fixture can result in differences in color output. The gamut indicator on the display indicates if the color is out-of-gamut. See *Display on page 10*. • If the temperature sensor is failing, contact ETC Technical Services for assistance.
Error message "Array Comm" or "Array Failure" displays on screen	Fixture cannot communicate with the LED array.	Contact ETC Technical Services.
Error message "Bundle Mismatch" displays on screen	An error occurred during a firmware update.	Update the firmware again. See *Update Firmware on page 35*.
Error message "Color Data Fail"displays on screen	Fixture cannot load its color information.	Contact ETC Technical Services.
Error message "LED High Temp" or "Power Budgeting" displays on screen	• Fan is set to a level that is too low for the current LED intensity. • Fan has failed. • Temperature sensor is failing.	• Verify whether the fan is running. Check the **About Sensors** screen to view the current fan level. See *View Diagnostic Data on page 34*. • If the temperature sensor is failing, contact ETC Technical Services for assistance.
• Wireless indicator ( ) is blinking • Fixture is not responding to wireless control • Fixture is responding intermittently to wireless control	• Fixture is still connected to wired DMX control (via DMX In connector). Wired DMX data takes precedence over wireless DMX data. • Other wireless systems are interfering with the Multiverse wireless communication. • Fixture antennas or Multiverse product antennas are not oriented optimally. • Multiverse transmitter is not located optimally.	See the *Multiverse Wireless Setup Information Guide* at etcconnect.com for guidance on setting up wireless communication. • Disconnect the DMX in cable. • Change the radio settings to different channels. Minimize overlap with other Wi-Fi sources. • Move the antennas on the fixtures, Multiverse products, or both. • Move the Multiverse transmitter.
Error message "No Bundle" displays on screen	Fixture does not have a firmware bundle stored internally. This may indicate that a firmware update failed.	Update the firmware again (see *Update Firmware on page 35*). If the error persists, contact ETC Technical Services.
Error message "USB Error" displays on screen	Fixture cannot read the USB drive.	Remove and then re-insert the USB drive. If the error message continues to display, try a different USB drive.
Fan is loud	DMX value for fan operation is set too high.	Verify that the DMX value is appropriate for the fan channel. See *DMX Control Channels on page 20*.
Fixture is flickering	Fixture is receiving bad DMX.	Check the **About Control** screen to verify that the DMX controller is sending good DMX. See *View Diagnostic Data on page 34*. If the DMX data looks good, then contact ETC Technical Services.

What I'm Seeing	What Might Be Wrong	What To Try
Fixture is stuck on the last look sent via DMX	The fixture may not be receiving DMX. (If you have not changed the **DMX Loss** behavior, the default setting is **HLL**, which causes the fixture to hold the last look until you make local changes.) The DMX indicator on the display appears solid when DMX is present, and blinks with a red circle-and-slash when DMX is lost. See *Display on page 10*.	• Check the DMX In connector and cable. • Check that the DMX source is sending data.

Adjust the Pulse Width Modulation (PWM)

If you are encountering flickering in recorded video, you can adjust the Pulse Width Modulation (PWM) to correct it.

1. Press the **Menu** button (☰), turn the Intensity encoder to navigate to **Local Settings**, and then press the Intensity encoder to select it.
2. In the **Local Settings** screen, turn the Intensity encoder to select the **PWM** parameter, and then press the Intensity encoder to select between the two options:
   - **High**: The 25 kHz setting prevents flickering when recording video. This is the default setting.
   - **Medium**: The 11 kHz setting provides a balance between the **High** and **Low** settings.
   - **Low**: The 5 kHz setting provides greater control of low-end dimming.
3. Press the **Menu** button (☰) or press the red encoder until you return to the **Main Menu** screen when you are done.

Test the Emitters

As part of troubleshooting any issues with a fixture, you can test the emitters, either as a group or individually by color.

1. Press the **Menu** button (☰), and then use the Intensity encoder to navigate through the menu: **Diagnostics** > **Test**.
2. In the **Test** screen, use the blue encoder to select the emitters to test, and the green encoder to set the level for the emitters:
   - Press the blue encoder to select all emitter colors, or turn the encoder to select an individual emitter color. (**De** = Deep red, **Re** = Red, etc.)
   - Press the green encoder to toggle between off and full (**FL**) for the selected emitters, or turn the encoder to set a specific level (0%–100%).
3. If necessary, use the Intensity encoder to set the intensity level for the emitter test.
4. Press the **Menu** button (☰) or press the red encoder until you return to the **Main Menu** screen when you are done.

Note: *If you don't press the **Menu** button (☰) or press the red encoder to return to the **Main Menu** screen when you are done, the **Test** screen will time out based on the **Timeout** setting (see Adjust the Display Settings on page 31). However, if you set the **Timeout** setting to **Never** and do not exit the **Test** screen, the fixture will remain in test mode (overriding any other instructions to the fixture) until you return to the **Test** screen and exit it.*

View Diagnostic Data

As part of troubleshooting any issues with a fixture, ETC Technical Services may ask that you view diagnostic data on the fixture.

1. Press the **Menu** button (☰), turn the Intensity encoder to navigate to **Diagnostics**, and then press the Intensity encoder to select it.
2. In the **Diagnostics** screen, turn the Intensity encoder to select the diagnostics category, and then press the Intensity encoder to view the data for that category. Use the Intensity encoder in a given screen to navigate through the values in that screen.

Category	Description
About Fixture	Fixture data: • Version numbers • Serial number • RDM ID • RDM Label
About Control	Information on the current DMX or Multiverse control data. Includes network statistics to aid in diagnosing DMX issues or connectivity issues. Turn the green encoder to change the data display between DMX and Multiverse.
About Sensors	Temperatures for the fixture components and fan usage; can aid in diagnosing issues with color mismatches between fixtures or overuse of fan.
Test	Use this option to test the emitters. See *Test the Emitters on page 33*.
About Color	The target color sent to the fixture, the actual (current) color generated by the fixture, and whether the color sent to the fixture is out-of-gamut.
Events	Log of the last 50 changes to the fixture settings, identified by the source of the change (for example, via DMX, RDM, or the UI). The most recent change is first in the list. You can export the event log to a USB drive to aid in troubleshooting. See *Export Fixture Event Log on page 35*.

3. Press the **Menu** button (☰) or press the red encoder until you return to the **Main Menu** screen when you are done.

Export Fixture Data for Troubleshooting

As part of troubleshooting any issues with a fixture, ETC Technical Services may ask that you export fixture data to a USB drive and then send the data for further analysis.

Export Fixture Data

The fixture routinely saves data. You can export the data to a USB drive to aid in troubleshooting any issues with the fixture.

1. Insert the USB drive in the USB port on the rear of the fixture (see *User Interface on page 9*).
2. Press the **Menu** button (☰), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **USB** > **Save Data**.
3. The display shows the file name to be saved (for example, s4data00.xml). Press the green encoder (for the **Save** icon 💾) to save the file to the USB drive.

   The display returns to the **USB** screen when the process is complete. The saved data includes the following parameters:
   - Temperatures (PSU, Control, and LED)
   - Control mode
   - DMX parameters
   - Run time in hours
4. Remove the USB drive from the USB port.

Export Fixture Event Log

The fixture routinely saves the last 50 changes to the fixture settings in an event log. The log identifies the way in which the settings were changed (for example, whether the settings were changed using the UI or via RDM). You can export the event log to a USB drive to aid in troubleshooting any issues with the fixture.

1. Insert the USB drive in the USB port on the rear of the fixture (see *User Interface on page 9*).
2. Press the **Menu** button (☰), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **USB** > **Save Events**.
3. The display shows the file name to be saved (for example, s4log00.xml). Press the green encoder (for the **Save** icon 💾) to save the file to the USB drive.

   When the display returns to the **USB** screen, the process is complete, and the data is saved to a file on the USB drive.
4. Remove the USB drive from the USB port.

Restore Default Settings

1. Press the **Menu** button (☰), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **Restore Defaults**.
2. When the screen prompts you to confirm, press the green encoder (for the **OK** icon ✓) to continue. The screen shows a confirmation message after default settings have been restored. After the default settings have been restored, the DMX mode will be **Direct**.

Update Firmware

When fixtures are connected to data, you can update firmware directly using UpdaterAtor. For information on UpdaterAtor, see the *UpdaterAtor Software Quick Guide* and the *UpdaterAtor Software Release Note*, which you can download from etcconnect.com.

You can also update firmware using a USB drive. After you update a single fixture using a USB drive, you can update all fixtures that are connected via wired DMX from that fixture.

Update a Single Fixture Using a USB drive

1. Visit etcconnect.com or use UpdaterAtor to get the updated firmware file for the fixture, and then save the firmware file to a USB drive. For information on UpdaterAtor, see the *UpdaterAtor Software Quick Guide* and the *UpdaterAtor Software Release Note*, which you can download from etcconnect.com.
2. Insert the USB drive in the USB port on the rear of the fixture (see *User Interface on page 9*).
3. Press the **Menu** button (☰), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **USB** > **Update Firmware**.
4. Use the Intensity encoder to navigate to the firmware update file, and then press the Intensity encoder to begin the firmware update. The firmware update includes several steps:
   a. Copying the files to the fixture: A progress meter displays as the files are copied to the fixture.
   b. Verifying the files: The ETC logo displays on the top half of the screen as the fixture verifies the files. You can safely remove the USB drive at this time.
   c. Updating the fixture: The fixture installs the updated firmware files.

Update All Connected Fixtures

1. After you update the firmware on a fixture, verify that the fixture is not receiving DMX/RDM before you proceed.
2. Press the **Menu** button ( ) on the fixture, and then use the Intensity encoder to navigate through the menu: **Local Settings** > **Push Firmware**.
3. When the screen prompts you to confirm, press the green encoder (for the **OK** icon ✓) to continue. The updated firmware is copied to all connected fixtures, and the screens on connected fixtures display a progress message ("Firmware RX *x*%").

Backup and Restore the Fixture Configuration

You can save the fixture settings to a USB drive and then apply those settings to another fixture. You can also use the saved settings as a backup, and then apply the settings to the same fixture to restore it to a previous state.

Back Up Fixture Settings

1. Insert the USB drive in the USB port on the rear of the fixture (see *User Interface on page 9*).
2. Press the **Menu** button ( ), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **USB** > **Save All Settings**.
3. The display shows the file name to be saved (for example, s4cfg00.xml). Press the green encoder (for the **Save** icon) to save the file to the USB drive.

   The display returns to the **USB** screen when the process is complete.
4. Remove the USB drive from the USB port.

Apply (or Restore) Fixture Settings

1. Insert the USB drive that contains the fixture settings file (s4cfg*xx*.xml) in the USB port on the rear of the fixture (see *User Interface on page 9*).
2. Press the **Menu** button ( ), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **USB** > **Apply All Settings**.
3. When the screen prompts you to select the fixture settings file, use the Intensity encoder to navigate to the correct file and select it.

   The display returns to the **USB** screen when the process is complete.
4. Remove the USB drive from the USB port.

Push Fixture Settings to All Connected Fixtures

1. Press the **Menu** button ( ), and then use the Intensity encoder to navigate through the menu: **Local Settings** > **Push Settings**.
2. When the screen prompts you to confirm, press the green encoder (for the **OK** icon ✓) to continue. The settings are copied to all connected fixtures, and the screens on connected fixtures display a confirmation message ("Config Received").

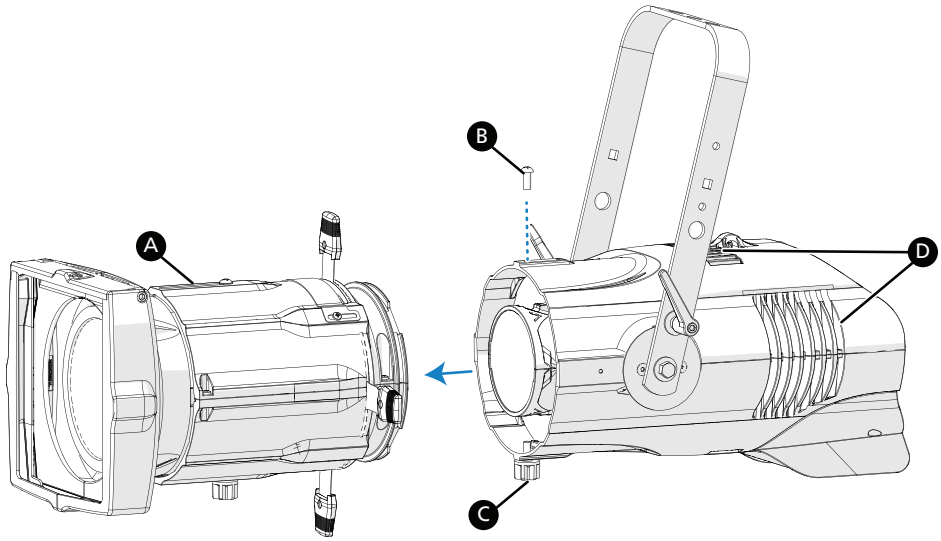
Clean the Lens and the Fixture Housing

Clean the lens and the heat-dissipating fins on the fixture housing at least once a year to ensure optimum performance. You may need to clean more often, depending on the type of fixture use and amount of fixture use.

WARNING: Note the following safety warnings before cleaning:

- **Allow fixture to cool completely before you clean.**
- **Disconnect all power and DMX cables before you clean.**
- **Do not spray liquids into the fixture.**

1. Remove the shutter barrel and lens tube (A) by removing the screw (B) and the barrel rotation knob (C), and then separate the fixture and shutter barrel.
2. Use a clean micro-fiber cloth to clean the lens. You can use isopropyl alcohol on the cloth. However, do not spray the cleaning solution directly onto the lens or the interior of the fixture.
3. Reinstall the shutter barrel and lens tube, and secure with the retaining bolt and the barrel rotation knob.
4. Clean the four sets of heat-dissipating fins on the fixture enclosure (D) using a soft cloth or compressed air.



Note: *For information on disassembling and cleaning XDLT lens tube components, see the XDLT Lens Tubes Assembly Guide, which you can download at etcconnect.com.*

Specifications and Reference

For current and complete compliance and specifications, see the Source Four LED Series 3 datasheet at etcconnect.com.

Environment

The Source Four LED Series 3 operates in ambient temperatures of 0°C–40°C (32°F–104°F) and is rated IP20 (for use in dry locations only).

Fixture temperature information:

- Maximum recommended ambient operating temperature: Ta=40°C (104°F)
- Maximum anticipated external surface temperature: Tmax=80°C (176°F)
- External temperature after 5 minutes of full-brightness operation at 25°C (77°F) ambient: 40°C (104°F)
- External Temperature (steady state achieved) at 25°C (77°F): 51°C (124°F)

Weight

Component	kg	lb
Fixture body	6.76	14.90
Shutter barrel	2.11	4.65
Fixture body and shutter barrel	8.87	19.55

Electrical

- Operates between 100 VAC and 240 VAC at a frequency of 50/60 Hz.
- Maximum power consumption is 375 W
- Up to 4 fixtures (16 A max) may be linked via power thru connector (5 luminaires total per circuit) when used with an R20 Relay Module, ER15 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: 40 A
  - 230 V: 80 A

Typical Power Consumption		100 V		120 V		230 V	
Lustr X8	Idle Power/Current	6 W	0.10 A	6.3 W	0.09 A	4.7 W	0.06 A
	Direct at Full/Current	310 W	3.15 A	307 W	2.6 A	305 W	1.35 A
Daylight HDR	Idle Power/Current	6 W	0.10 A	6.3 W	0.09 A	4.7 W	0.06 A
	Direct at Full/Current	345 W	3.45 A	340 W	2.85 A	330 W	1.5 A

RDM Parameters

Parameter	Fixture	Value	Description
Manufacturer ID	All	0x6574	Electronic Theatre Controls
Model ID	S4LEDS3L, S4LEDS3LS	0x0500	S4 Series 3 Lustr X8
	S4LEDS3D, S4LEDS3DS	0x0501	S4 Series 3 Daylight HDR
DMX Personality	All	0x00E0	1 = Direct 2 = Expanded 3 = Studio 4 = 3 Ch RGB 5 = 1 Ch 6 = HSIC 7 = Direct 16bit 8 = Expanded 16bit 9 = Studio 16bit 10 = HSIC 16bit
DMX Start Address	All	0x00F0	Range = 1–512

Fixture Compliance

For current and complete compliance and specifications, see the Source Four LED Series 3 datasheet at etcconnect.com.

FCC Compliance

Source Four LED Series 3

(For any FCC matters):

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

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)

EU Declaration of Conformity

This product complies with the essential requirements of the Radio Equipment Directive of the European Union 2014/53/EU (RED).

This product conforms to the following standards:

- ETSI EN 300 328 v2.1.1 (2016)
- ETSI EN 301 489 v2.1.1 (2017)
- ETSI EN 301 489-18 v3.1.1 (2016)

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7462M1200-1.4.0 Rev A Released 2025-10