



# Source 4WRD Color II

## Retrofit

# Installation and User Manual

**Version 3.0**

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# Table of Contents

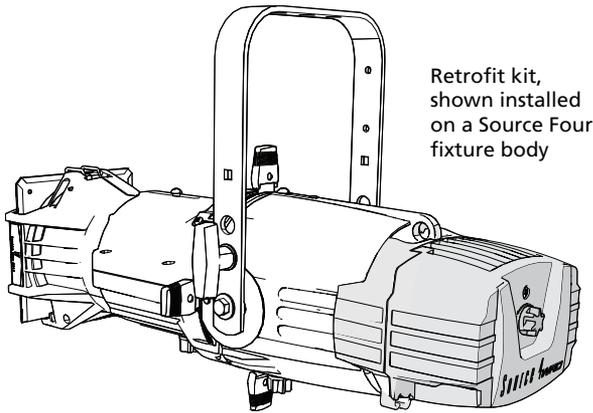
Introduction .....	1
Help from ETC Technical Services .....	2
Safety .....	3
Retrofit the Fixture .....	5
Wire the Power Connector (If Needed) .....	5
Remove Incandescent Lamp Housing .....	6
Install the Reflector Insert .....	6
Install the Source 4WRD Color II Retrofit ...	8
Install the Fixture .....	10
Attach C-clamp and Safety Cable .....	10
Connect Cables .....	11
Configure the Fixture .....	12
Set the DMX Address .....	12
Play Presets and Sequences .....	13
Data Loss Behavior .....	14
Focus the Fixture .....	15
Set the Z-adjustment .....	15

Adjust the Yoke Position .....	15
Shape the Beam .....	16
<b>Troubleshoot the Fixture .....</b>	<b>17</b>
Restore Factory Defaults .....	18
Update the Fixture Software .....	19
RDM Values .....	20
<b>Clean and Maintain the Fixture .....</b>	<b>20</b>
Clean the Fixture .....	20
Store the Retrofit .....	20
Clean the Lenses .....	21
Clean the Reflector Insert .....	22
Clean 5° and 10° Polymer Lenses .....	23
<b>Specifications .....</b>	<b>24</b>
Electrical .....	24
Environment .....	24
Weight .....	24
Optical .....	24
FCC Compliance .....	25

# Introduction

The Source 4WRD Color II is a replacement for a standard Source Four burner assembly. It converts the HPL source to an RGBA (red, green, blue, and amber) LED and provides a significant reduction in power consumption. The Source 4WRD Color II uses DMX dimming and requires power from a non-dimmable source. When not using DMX, you can use any of the 12 presets or 5 sequences on the Source 4WRD Color II.

The Source 4WRD Color II can also be used with the Source 4WRD PAR or PARNel Fixture Body to create a Source 4WRD Color II PAR or PARNel fixture. For best results, we recommend that you use the included diffusion on the Source 4WRD PAR or PARNel Fixture Body when paired with the Source 4WRD Color. For more information, see the Source 4WRD Color II PAR and PARNel datasheet at [etconnect.com](http://etconnect.com).



Retrofit kit,  
shown installed  
on a Source Four  
fixture body



**Note:** *The Source 4WRD Color II retrofit kit is not compatible with Source Four LED, Fresnel, PAR, PARNel, or jr fixtures.*

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# 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.etconnect.com](http://support.etconnect.com) or the main ETC website at [etconnect.com](http://etconnect.com). If none of these resources are sufficient, contact ETC Technical Services directly at one of the offices identified below. Emergency service 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 notification number if you have called in previously

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# Safety

The Source 4WRD Color II fixture is intended for professional use only. Read the entire manual before using this equipment.

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**WARNING:** Note the following warnings before use:

- The Source 4WRD Color II is not user serviceable. Field modification of the Source 4WRD Color II will void your ETC warranty.
  - Do not use the fixture below 5°C (41°F).
  - Minimum storage temperature is 5°C (41°F). When the fixture has been stored or transported in cold temperatures, allow it to warm to room temperature for a minimum of 1 hour before applying power. Applying power to a cold fixture will cause damage to the fixture and void the ETC warranty.
  - Do not use this fixture if a glass lens is deeply scratched or cracked. Damaged lenses must be replaced.
  - To prevent wiring damage, or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
  - Use the fixture in dry locations only, where humidity does not exceed 90 percent (non-condensing). These fixtures are not intended for outdoor use.
- 



**WARNING:** Note the following safety warnings before use:

- Do not mount the fixture on or near a flammable surface.
  - Do not use this fixture with a damaged power lead. If the power lead (cord set) is damaged, it must be replaced.
  - Mount and support the fixture only by the primary suspension holes in the yoke.
  - 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.
  - Suspend the fixture from a suitable structure using only hardware rated for the weight of the fixture.
  - In addition to primary suspension, attach a safety cable to the fixture housing. An appropriate attachment point (hole) is provided in the protruding tab on the fixture housing.
  - Disconnect the unit from power and DMX and allow the fixture to cool before removing or installing accessories, and before all cleaning and maintenance.
-



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

- **Ne pas installer le projecteur sur ou à côté d'une surface inflammable.**
- **Ne pas utiliser ce projecteur avec un cordon d'alimentation endommagé. Si le cordon d'alimentation (câble) est abîmé, il doit être remplacé.**
- **Installer et accrocher le projecteur uniquement par les trous de fixation principaux de la lyre.**
- **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.**
- **Accrocher le projecteur à une structure convenable en utilisant seulement du matériel adapté au poids du projecteur.**
- **En plus de l'accroche principale, fixer une élingue de sécurité (modèle ETC 400SC ou autre câble/dispositif de sécurité certifié) au corps du projecteur. Un point d'accroche (trou) approprié est prévu dans la patte qui ressort du boîtier du projecteur.**
- **Déconnecter l'alimentation et le DMX et laisser le projecteur refroidir avant d'enlever ou installer l'optique découpe ou les autres adaptateurs, et avant tout nettoyage et entretien.**

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.
	Risk of electric shock	Risque de décharge électrique
	General warning	Avertissement général
	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.

# Retrofit the Fixture

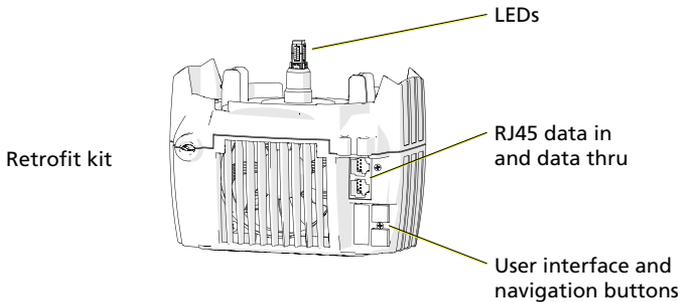


**WARNING: RISK OF FIRE OR ELECTRIC SHOCK!** Installing the Source 4WRD Color II retrofit kit requires knowledge of luminaire electrical systems. If you are not qualified, do not attempt installation. Contact a qualified electrician.

**AVERTISSEMENT : RISQUE D'INCENDIE OU DE DÉCHARGE ÉLECTRIQUE!** Installer le nécessaire de conversion Source 4WRD Color II nécessite une connaissance des systèmes électriques de projecteurs. Si vous n'êtes pas qualifié, ne tentez pas l'installation. Faire appel à un électricien qualifié.



**Note:** *THE RETROFIT KIT IS ACCEPTABLE AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.*



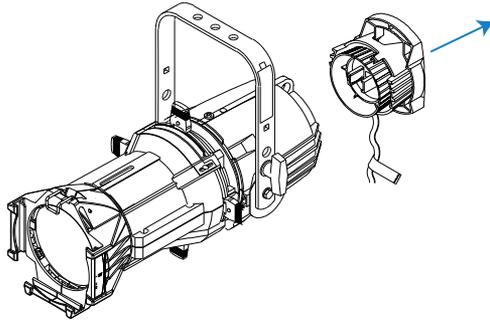
## Wire the Power Connector (If Needed)

If you ordered a Source 4WRD Color II retrofit without a power connector, wire the connector in accordance with all national and local electrical codes:

- Black or Brown = Live
- White or White heat shrink on Blue wire = Neutral
- Green or Green/Yellow + Drain = Protective Earth

## Remove Incandescent Lamp Housing

1. Unplug the Source Four incandescent fixture and place it on a flat, stable surface.
2. Loosen the brass thumb screw located above the beam adjustment knob. The lamp housing is now loose.
3. Remove the lamp housing from the fixture body.



**Note:** *The burner assembly is no longer needed. If you would like ETC to recycle the burner assembly, contact ETC Technical Services for more information. See [Help from ETC Technical Services on page 2](#).*

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## Install the Reflector Insert

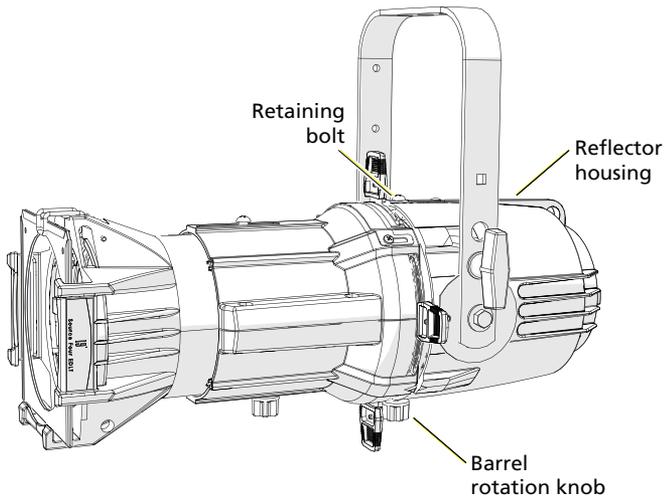
When you use the Source 4WRD Color II with a Source Four fixture body, you **must** install the reflector insert provided with the Source 4WRD Color II in the Source Four fixture body.



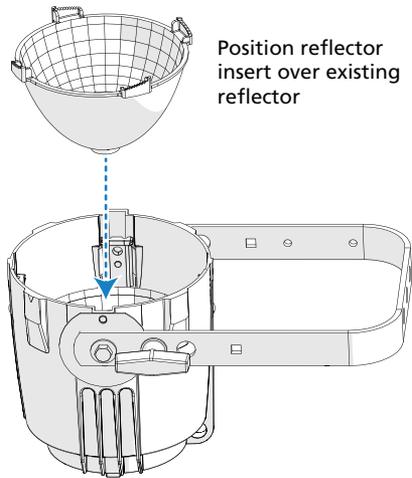
**CAUTION:** *Use the reflector insert only with the Source 4WRD Color II retrofit. Using the reflector insert with an incandescent Source Four lamp can result in damage to the product.*

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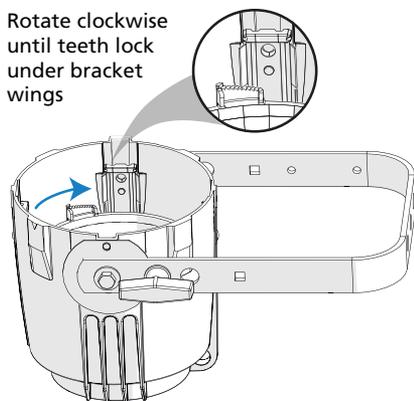
1. Remove the shutter barrel from the fixture in order to access the reflector housing.  
Loosen the barrel rotation knob at the bottom of the reflector housing and loosen the retaining bolt on the opposite side of the reflector housing. Rotate the shutter barrel and remove it from the reflector housing.



2. Place the reflector housing on a flat surface with the reflector facing up.
3. Position the reflector insert in the reflector housing over the top of the reflector, taking care to align the centers of the reflector insert and reflector.



4. Gently rotate the reflector insert clockwise until the teeth on the reflector insert tabs are secured against the bracket wings on the reflector housing. Do not use excessive force when rotating the reflector insert, as the reflector insert may flex under pressure.



**Note:** No additional diffusion is used with the reflector insert. The reflector insert replaces the older Source 4WRD Color diffusion insert.

5. Replace and secure the shutter barrel and lens tube.

## Install the Source 4WRD Color II Retrofit



**WARNING: RISK OF FIRE OR ELECTRIC SHOCK!** Install this kit only onto luminaires that have the construction features and dimensions shown in the images in this document and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

**AVERTISSEMENT : RISQUE D'INCENDIE OU DE DÉCHARGE ÉLECTRIQUE!** N'installez ce kit que sur les projecteurs qui ont les caractéristiques de construction et les dimensions indiquées sur les images de ce document et où la puissance électrique nécessaire à la conversion n'excède pas la puissance maximale du projecteur.



**WARNING:** Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

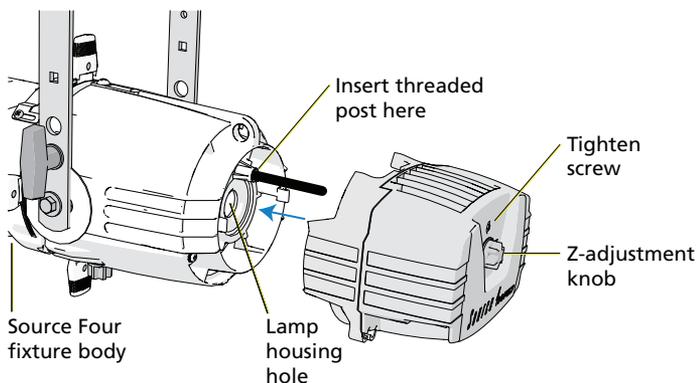


**CAUTION:** *Do not touch or clean LED emitters with anything other than oil-free canned air.*

### Tools required:

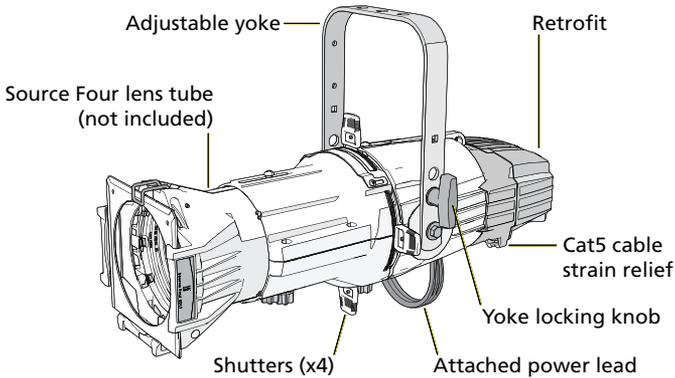
- Adjustable wrench
- #2 Phillips screwdriver

1. Use oil-free canned air to clean the LED emitters before you install the retrofit. **Do not touch the LED emitters.**
2. With the fixture resting securely on a flat surface, attach the supplied threaded post to the back end of the fixture body. Use an adjustable wrench to tighten the threaded post one-quarter turn past finger tight.
3. Gently slide the Source 4WRD Color II onto the fixture body and threaded post while guiding the LED tower into the lamp housing hole, as shown in the following image. Take care to prevent contact between the LEDs and the reflector.



4. Use a #2 Phillips screwdriver to tighten the screw located on the back end of the Source 4WRD Color II, directly above the Z-adjustment knob.
5. Pull gently to verify secure attachment.
6. Set the Z-adjustment using the Z-adjustment knob. See [Set the Z-adjustment on page 15](#).

# Install the Fixture



## Attach C-clamp and Safety Cable

The C-clamp attaches the fixture to the mounting pipe and allows you to adjust the position of the mounted fixture. ETC recommends using 1.5 in schedule 40 pipe.

1. Tightly fasten the C-clamp to the yoke with the provided yoke bolt and lock washer.
2. Place the C-clamp on mounting pipe, and then tighten the pipe bolt to secure it.
3. Loosen the C-clamp pan screw and rotate the yoke to the desired position.
4. Tighten the pan screw to lock the fixture.
5. Connect the safety cable.
6. Tighten the C-clamp pipe bolt to 15–20 ft-lb (20–27 Nm), approximately finger tight plus up to one-quarter turn.



**CAUTION: Do not exceed 25 ft-lb (33 Nm) while tightening the C-clamp pipe bolt. Do not use excessive force.**

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7. Tighten the yoke pivot bolt to 5–10 ft-lb (6–7 Nm), approximately finger tight plus up to one-eighth turn.



**CAUTION: Do not exceed 15 ft-lb (20 Nm) while tightening the yoke pivot bolt. Do not use excessive force.**

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# Connect Cables

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**WARNING: Do not use or store the Source 4WRD Color II fixture below 5°C (41°F). When the fixture has been stored or transported in cold temperatures, allow it to warm to room temperature for a minimum of 1 hour before applying power. Applying power to a cold fixture will cause damage to the fixture and void ETC warranty.**

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1. Connect one RJ45 data cable for data-in and one for data-thru, as needed. Use the strain relief at the bottom of the fixture to support the data cables (see image in [Install the Fixture on the previous page](#)). Leave a loop of data cable between the connector and the strain relief to ensure that the connection point is not stressed.
  - To order an RJ45-to-socket XLR adapter, use ETC part number W6538.
  - To order an RJ45-to-plug XLR adapter, use ETC part number W6539.
2. If this is the last fixture in the line, terminate the fixture with a 120 Ohm resistor. Please contact your ETC customer service representative to purchase ETC part number N4086. See [Help from ETC Technical Services on page 2](#).
3. Connect the fixture to a non-dimmable power source.

## DMX Dimming

- When using DMX over Cat5, use Cat5e or better.
- Cable distance for full DMX daisy chain must not exceed 300 m (1000 ft).
- Up to 32 fixtures can be connected together into a daisy chain.
- The fixture cannot be controlled via Ethernet protocols and should not be directly connected to an Ethernet system.

## DMX channels

Channel	Description	Value
1	Intensity	
2	Red	
3	Green	
4	Blue	
5	Amber	
6	Strobe	0 = No strobe 1–254 = Linear increase from 1 per second (DMX = 1) to 33 per second (DMX = 254) 255 = No strobe

## DMX pinout

Pin	Description
1	DMX +
2	DMX -
3	DMX2 + (Pass Thru)
4	Not connected

Pin	Description
5	Not connected
6	DMX2 - (Pass Thru)
7	Common (shield)
8	Common (shield)

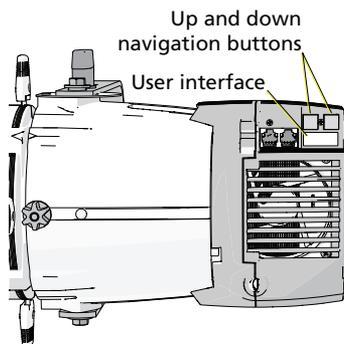
## Configure the Fixture

Use the up and down navigation buttons to configure the fixture.

### 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 use RDM for DMX addressing.



## 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.
1. Press the **Up** button and **Down** button simultaneously 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 **Up** button and **Down** button simultaneously. The display will revert to show the DMX start address.

## Pre-configured Presets

You can re-record presets (see [Re-record Presets on the next page](#)), and you can modify presets and sequences via RDM.

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

## Re-record Presets

1. Using DMX, set the desired levels for the new preset.
2. Press the **Up** button and **Down** button simultaneously to activate 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 either the **Up** button or **Down** button to re-record the preset. The display shows a three-second countdown, and then records the current look to the preset.

## Adjust Preset Intensity

1. Ensure that DMX data is not present.
2. Press the **Up** button and **Down** button simultaneously to activate the Presets/Sequences menu.
3. Press the **Up** button or **Down** button as needed to scroll to the preset that you want to adjust.
4. Press and hold either the **Up** button or **Down** button. The display shows **L=** followed by either an intensity level from **0-99** or **FL** for full.
5. Press either the **Up** button or **Down** button to adjust the intensity. You can hold either button to scroll rapidly through intensity level values. The new intensity value is saved after five seconds with no buttons pressed.

## 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 goes dark and the DMX start address flashes on the user interface.

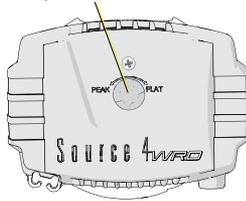
# Focus the Fixture

## Set the Z-adjustment

Use the Z-adjustment knob located on the rear of the fixture to adjust the field of the LED light for specific applications.

1. Turn on the fixture and aim it at a flat surface.
2. Slide the fixture barrel toward or away from the Source 4WRD Color II to create a hard-edged beam of light.
3. Turn the knob toward PEAK or FLAT until you achieve the desired field.

Z-adjustment knob



Ideal beam of uniform light



Adjust toward PEAK to blend overlapped beams



Adjust toward FLAT to improve sharp focus

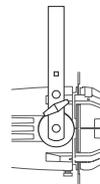


**Note:** *The Source 4WRD PAR or PARNel Fixture Body optics are optimized for PEAK focus. When using the Source 4WRD Color II in a Source 4WRD PAR or PARNel Fixture Body, turn the Z-adjustment knob toward PEAK until the knob becomes loose, and then tighten the Z-adjustment knob an additional quarter turn. This sets the LED light source into the appropriate position within the fixture.*

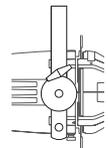
## Adjust the Yoke Position

### Change the Height Position

1. Remove the yoke locking knobs, washers, and hex bolts from either side of the fixture.
2. Raise or lower the fixture to the desired position within the yoke.
3. Reinstall the yoke's hex bolts, washers, and locking knobs.
4. Tighten the yoke knobs to secure the yoke in position.



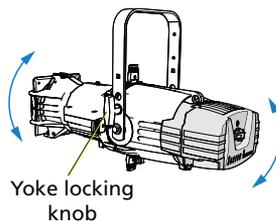
General use position



Low clearance position

## Set the Angle within the Yoke

1. Loosen the yoke locking knob. **Do not** remove the knob.
2. Tilt the fixture to the desired position.
3. Tighten the yoke locking knob to secure in position.



## Shape the Beam

You can shape the beam by using the shutters, a pattern, an optional drop-in iris, and by rotating the barrel.

## Use the Accessory Holder

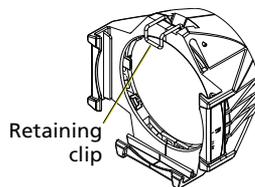
The accessory holder is equipped with a spring-loaded retaining clip that prevents color frames and accessories from falling out.



**WARNING: Make sure all color frame accessories are locked in position with the retaining clip before hanging the fixture.**

**AVERTISSEMENT : S'assurer que tous les porte-filtres sont verrouillés en place à l'aide du verrouillage de la cassette avant de suspendre le projecteur.**

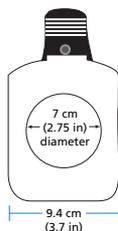
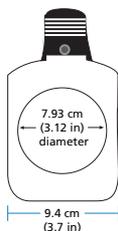
1. Release the retaining clip by pushing it sideways while gently pulling backwards.
2. Insert the color frame or accessory.
3. Lock the retaining clip by pushing sideways while gently pushing forward.



## Use a Pattern

The pattern holder slot is on the top side of the barrel and in front of the shutters. It accommodates A-size, B-size, and glass pattern holders. Because the Source 4WRD Color II fixture aperture is 3 inches wide, ETC recommends A-size patterns for maximum effectiveness. Set the Z-adjustment to FLAT for the sharpest pattern focus (see [Set the Z-adjustment on the previous page](#)).

A-size pattern holder:  
Holds 7.6 cm (3 in)  
diameter patterns



B-size pattern holder:  
Holds 6.35 cm (2.5 in)  
and 7 cm (2.75 in)  
diameter patterns

# Troubleshoot the Fixture

The following error codes may be seen on the Source 4WRD Color II user interface. For more troubleshooting assistance, see [Help from ETC Technical Services on page 2](#).

- **OTP**: Screen toggles between **OTP** and **Err** to indicate that the fixture has gone into over-temperature protection mode to avoid damaging the fixture. Once the fixture has self-cooled, any preset or sequence will resume automatically. If you are using DMX, set the intensity to 0 to clear the error. If the error does not clear, contact ETC Technical Support (visit [etconnect.com/contactETC](http://etconnect.com/contactETC)).
- **UTP** (UTP) indicates that the fixture has gone into under-temperature protection. Allow the fixture to warm to a minimum of 5°C (41°F). Once the fixture has warmed, any preset or sequence will resume automatically. If you are using DMX, set the intensity to 0 to clear the error.
- **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.
- **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 [etconnect.com/contactETC](http://etconnect.com/contactETC)).
- **Flashing DMX address** indicates loss of DMX.
- **Dark screen** indicates loss of power or fixture time-out. In the event of time-out, press any button to wake the user interface. If this fails to wake the user interface, troubleshoot the power loss:
  - Verify that all cables are fully seated and that power is applied to the fixture.
  - If a working Source 4WRD Color II is available, exchange the Source 4WRD Color II with the working Source 4WRD Color II to further isolate any issues.
  - If the fixture still does not respond, contact ETC Technical Services for additional troubleshooting steps or to arrange a repair. See [Help from ETC Technical Services on page 2](#) for contact information.

# Restore Factory Defaults

1. Remove power from the fixture.
2. Press and hold the **Up** button and **Down** button simultaneously while restoring power.
3. The display will show **Udt** to indicate the update mode is selected.
4. Press the **Up** button or **Down** button until the display shows **dFt** (default).
5. Press the **Up** button and **Down** button simultaneously to restore default settings.



**Note:** *There are other options that display as you press the **Up** button or **Down** button. These options are:*

- **Udt**: See [Update the Fixture Software on the facing page](#).
  - **bLt**: Force the fixture into bootloader mode to troubleshoot the failure of software updates. Contact ETC Technical Services for assistance (see [Help from ETC Technical Services on page 2](#)).
  - **tSt**: Used internally by ETC.
  - **rLn**: Return to the standard display.
-

## Update the Fixture Software

ETC recommends using UpdaterAtoR software to manage software updates. For information on UpdaterAtoR, see the *UpdaterAtoR Software Quick Guide* and the *UpdaterAtoR Software Release Note*, which you can download from [etconnect.com](http://etconnect.com).

You can push newer software versions from a connected fixture to selected Source 4WRD Color II fixtures (see table that follows).



**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.*

This fixture...	...can push software to these fixtures when connected		
	Source 4WRD Color ≤v1.1	Source 4WRD Color v2.0	Source 4WRD Color II v3.0
Source 4WRD Color ≤v1.1	X		
Source 4WRD Color v2.0		X	
Source 4WRD Color II v3.0			X

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** to indicate the update mode is selected.
4. Press the **Up** button and **Down** button simultaneously to start the update process.
  - The display alternates between **Udt** and the percentage complete while updating the connected fixtures.
  - The display blinks once to indicate that the update is complete.
5. Reconnect DMX In on the fixture.

# RDM Values

Parameter	RDM PID	Value
Manufacturer ID	0x6574	Electronic Theatre Controls
Model ID	0x0803	ETC Source 4WRD Color II
DMX Start Address	0x00F0	Range = 1–507
Output Frequency	0x8123	0 = Standard (1.2 kHz) 1 = High (20 kHz)

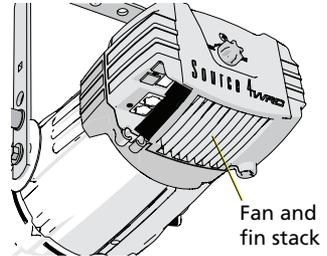
## Clean and Maintain the Fixture

### Clean the Fixture



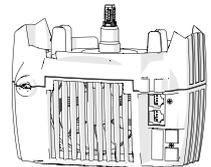
**CAUTION:** *Do not touch or clean LED emitters with anything other than oil-free canned air.*

- Use oil-free canned air to clean the LED emitters prior to installation and prior to storage.
- Use oil-free canned air to clean the fan and fin stack as part of regular fixture maintenance.



### Store the Retrofit

- When not installed on a fixture, store the Source 4WRD Color II in its original packaging or in a dust-resistant plastic bag.
- Store the Source 4WRD Color II at temperatures of 5°C (41°F) or higher.
- If you must store the Source 4WRD Color II below 5°C (41°F), make sure it is in an upright position as shown. Allow it to warm to room temperature for a minimum of one hour before applying power.



Store with LEDs facing up

# Clean the Lenses

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**WARNING:** Do not use ammonia-based cleaners or other harsh commercial cleaners. Clean lens and reflector only as directed.

Commercially available glass cleaning agents should be avoided as they may contain ammonia, other harsh chemical detergents or abrasive agents. These cleaners may damage the glass surface and the Anti-Reflective coatings. Do not immerse or soak the glass in any cleaning solution.

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**Note:** To clean the inside of lenses, you must remove the lenses from the lens tube. For instructions on removing the lenses, see the *Source Four Assembly Guide*, which is available for download at [etconnect.com](http://etconnect.com).

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Replace lenses if they contain visible damage (cracks or deep scratches) that may impair their effectiveness.

1. Remove the lens tube from the fixture barrel:
  - a. Remove the beam focus knob and retaining bolt from the top of the barrel and set aside.
  - b. Slide the lens tube out of the barrel.
2. Remove any dust with a blast of oil-free air or wipe with a clean, lint-free cloth. You can use isopropyl alcohol, distilled water, or a 50%-50% mixture of each to clean the glass surface.
3. Slide the lens tube back into the barrel with the color frame retaining clip on top. Reinstall the beam focus knob and retaining bolt.

## Clean the Reflector Insert

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**WARNING: Unplug the fixture and allow it to cool before you clean the reflector.**

**AVERTISSEMENT : Débrancher le projecteur et le laisser refroidir avant de nettoyer le réflecteur.**

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1. To protect the lamp housing during cleaning, remove the LED lamp housing by loosening the attachment screw and pulling the housing straight out. (See image on [page 9](#).)
2. Remove the barrel rotation knob located at the bottom of the barrel. Use a Phillips screwdriver to remove the retaining bolt located on top of the reflector housing.
3. Rotate the barrel 45° in either direction. Carefully remove the barrel from the reflector housing.
4. Clean the reflector insert. Remove any dust with a blast of oil-free air or wipe with a clean, lint-free cloth. You can use isopropyl alcohol, distilled water, or a 50%-50% mixture of each to clean the surface.
5. Insert the barrel into the reflector housing with the iris/pattern slot on top. Align the triangles on both parts.
6. While gently pressing in, rotate the barrel 45° clockwise until it sets into position, and then rotate the barrel counterclockwise 45°. The barrel should be firmly attached and the triangles should be aligned.
7. Reinstall the barrel rotation knob and tighten the retaining bolt.
8. Reinstall the LED lamp housing and tighten the attachment screw. See [Install the Source 4WRD Color II Retrofit on page 8](#).

# Clean 5° and 10° Polymer Lenses

To quickly clean the lenses, remove dust with a blast of oil-free air. If this is not sufficient, follow these steps.



**CAUTION:** *Handle polymer lenses by their edges only. Never rub anything dry on a polymer lens.*

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1. Remove the beam focus knob at the bottom of the barrel. Remove the lens tube from the barrel.
2. Use a Phillips screwdriver to remove the brackets that hold the lens in place. Remove the lens from the tube.
3. Dip the lens in a clean isopropyl alcohol/water mixture (9 parts water to 1 part isopropyl alcohol).
4. Use a soft moistened nylon bristle brush to wash the smooth side of the lens in a linear (non-circular) motion.
5. Use the same brush to lightly wash the ridged side of the lens by following its ridges.
6. Dip the lens in a clean isopropyl alcohol/water mixture (9 parts water to 1 part isopropyl alcohol).
7. Dry the smooth and ridged surfaces with an air gun. Make sure that the air flow moves liquid away from you.
8. Inspect the lens for dirt. Repeat steps 3–7 if necessary.
9. Set the lens back in the lens tube with the ridged side facing the front of the tube. Reinstall the lens brackets.
10. Slide the lens tube back into the barrel with the retaining clip for the color frame on top. Reinstall the beam focus knob.

# Specifications

For full product specifications, see the Source 4WRD Color II datasheet at [etcconnect.com](http://etcconnect.com).

## Electrical

- 100–240 VAC 50/60 Hz power input
- 150 W draw at full
- Maximum of 10 fixtures per non-dimmed circuit (R20 module)
- Requires power from a non-dimmable source.
- Inrush:
  - 120 V: 32 A (first half-cycle)
  - 240 V: 60 A (first half-cycle)

### Typical Power Consumption

	100 V		120 V		230 V	
Idle Power/Current	3 W	0.1 A	3 W	0.07 A	2.9 W	0.05 A
Direct at Full/Current	148 W	1.5 A	146 W	1.25 A	143 W	0.67 A

## Environment

- Ambient operating temperature: 5°C–40°C (41°F–104°F)
- Minimum storage temperature: 5°C (41°F)
- Maximum recommended ambient operating temperature: Ta=40°C (104°F)
- Maximum anticipated external surface temperature: Tmax=60°C (140°F) at Ta=40°C (104°F)
- External Temperature (steady state achieved) at 25°C (77°F) ambient: 45°C (113°F)

## Weight

- Source 4WRD Color II retrofit kit only: 1.63 kg (3.6 lb)
- Source 4WRD Color II installed on 26° fixture with yoke and C-clamp: 8.98 kg (19.8 lb)

## Optical

Compatible with all ETC Source Four lens tubes.

# FCC Compliance

## Source 4WRD Color II

(For any FCC matters):

Electronic Theatre Controls, Inc.  
3031 Pleasant View Road  
Middleton, WI 53562  
+1 (608) 831-4116  
[etconnect.com](http://etconnect.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 [etconnect.com/products](http://etconnect.com/products) for current and complete compliance information including FCC compliance.

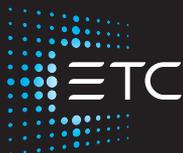


**Note:** *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment 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.*

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