High End Systems
SolaPix Fan 8
Automated Luminaire User Manual

Version 1.2.1

Part Number: 2594M1210-1.2.1 Rev: A

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Table of Contents

Introduction

This manual provides important information for the safe installation, configuration, and maintenance of your High End Systems SolaPix Fan 8 fixture. For your safety, read this entire manual prior to installing, operating, or servicing the fixture.

ETC recommends that you update your fixture with the latest version of software before you use the fixture. Software is available for free download from the ETC website: etcconnect.com/Products/Automated-Fixtures.

- See *View Software Version on page 21* to determine which version of software is currently installed on your fixture.
- See *Update Software on page 26* for instructions about updating your fixture.

Document Conventions

This document uses the following conventions to draw your attention to important information.

Note: *Notes are helpful hints and information that is supplemental to the main text.*

CAUTION: ***A Caution statement indicates situations where there may be unwanted consequences of an action, potential for data loss, or an equipment problem.***

CAUTION: ***Hot Surfaces. This statement indicates that while operating, equipment surfaces may reach very high temperatures. Allow the fixture to cool before handling or servicing.***

WARNING: A Warning statement indicates situations where damage may occur, people may be harmed, or there are serious or dangerous consequences of an action.

WARNING: RISK OF ELECTRIC SHOCK! This warning statement indicates situations where there is a risk of electric shock.

All ETC High End Systems documents are available for free download from our website: etcconnect.com/Products/Automated-Fixtures.

Please email comments about this manual to: TechComm@etcconnect.com.

Help from Technical Services

If you have questions that are not answered by this document, try the ETC support website at support.etcconnect.com or the ETC LED Automated Lighting product website at etcconnect.com/Products/Automated-Fixtures. 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 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

ETC, Inc.
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3031 Pleasant View Road
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800-775-4382 (USA, toll-free)
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service@etcconnect.com

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83607 Holzkirchen, Germany
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High End Systems Products

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Kowloon Bay, Kowloon, Hong Kong
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techserv-asia@etcconnect.com

Safety Considerations

To ensure safe operation, follow the safety instructions and warning notes in the user manual.

- This fixture is intended for professional use only. Not for residential use. Read the entire manual before using this equipment.
- Contact your authorized ETC dealer or Technical Services before performing any service in order to maintain warranty coverage.

WARNING: Note the following safety warnings before use:

- **This equipment is designed for operation by qualified personnel only.**
- **Do not stare at the operating lamp. May be harmful to the eyes.**
- **Replace fuses with the specified type and rating only. See *page 29*.**
- **Ensure that the available voltage is within the stated range. See *page 9*.**
- **Do not use this fixture with a damaged power lead (cord set). If the lead is damaged, it must be replaced by a qualified technician with an equivalent type before use. Contact your local authorized dealer for replacement power leads.**
- **Do not use this fixture if a lens is damaged. Damaged lenses must be replaced before use. Contact your local authorized dealer for a replacement.**
- **The fixture should be positioned so that prolonged staring into the fixture at a distance closer than 6.4 m (21 ft) is not expected.**
- **Do not mount the fixture on or near flammable surfaces.**
- **Minimum distance from fixture head to combustible materials: 0.1 m (4.0 in).**
- **Minimum distance to lighted objects: 1.0 m (3.28 ft).**

AVERTISSEMENT : Pour votre sécurité, lisez les mises en garde et les avis suivants avant toute utilisation :

- **Cet équipement est conçu pour être utilisé par un personnel qualifié uniquement.**
- **Ne regardez pas la lampe en fonctionnement. Peut être nocif pour les yeux.**
- **Remplacez les fusibles uniquement par le type et le calibre indiqués. Voir *page 29*.**
- **Veillez à ce que la tension disponible soit dans la plage indiquée. Voir *page 9*.**
- **N'utilisez pas ce projecteur avec un cordon d'alimentation endommagé (fils électriques). Si le cordon est endommagé, un technicien qualifié doit le remplacer par un cordon de type équivalent avant que l'appareil ne puisse être utilisé. Contactez votre distributeur agréé local pour obtenir des cordons d'alimentation de rechange.**
- **N'utilisez pas cet appareil si un lentille est endommagée. Les lentilles endommagées doivent être remplacées avant l'utilisation. Contactez votre revendeur agréé local pour un remplacement.**
- **L'appareil doit être positionné de manière à ce qu'un regard prolongé dans l'appareil à une distance inférieure à 6,4 m (21 pi) soit peu probable.**
- **Ne pas installer le projecteur sur ou à côté d'une surface inflammable.**
- **Distance minimum entre la tête du luminaire et les matériaux combustibles : 0.1 m (4.0 in).**
- **Distance minimum avec les objets éclairés : 1.0 m (3.28 ft).**

WARNING: RISK OF ELECTRIC SHOCK!

- **Do not operate this device with the cover open.**
- **Disconnect the fixture from power and DMX and allow it to cool before performing any cleaning and maintenance.**

AVERTISSEMENT : RISQUE DE CHOC ÉLÉCTRIQUE!

- **N'utilisez pas cet appareil avec le couvercle ouvert.**
- **Débrancher la lampe de son alimentation et du DMX et la laisser refroidir avant d'effectuer un nettoyage ou un entretien.**

RISK GROUP 2: CAUTION. ***Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes.***

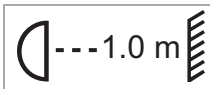
GROUPE DE RISQUE 2 (RISQUE MODÉRÉ) : ATTENTION. Rayonnement optique potentiellement dangereux émis par ce produit. Ne regardez pas la lampe en fonctionnement. Peut être nocif pour les yeux.

CAUTION: ***Hot Surfaces. Allow the device to cool completely before handling and servicing.***

ATTENTION : ***Surfaces chaudes. Laissez le luminaire refroidir complètement avant de le manipuler et de procéder à son entretien.***

Note: *The light source in this luminaire is not user-replaceable, and must be replaced only by a qualified technician. Contact ETC Customer Support for assistance.*

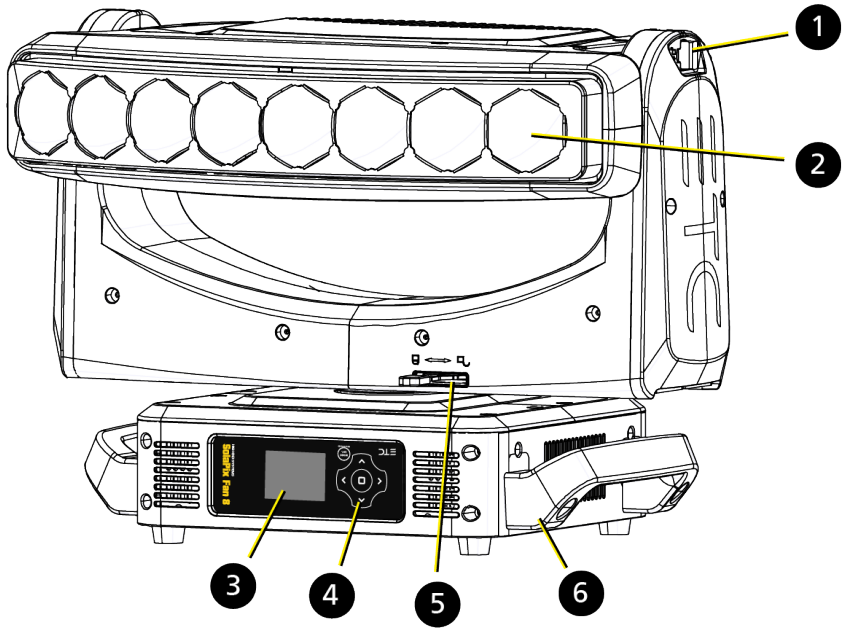
Symbols used on the product label are defined below:

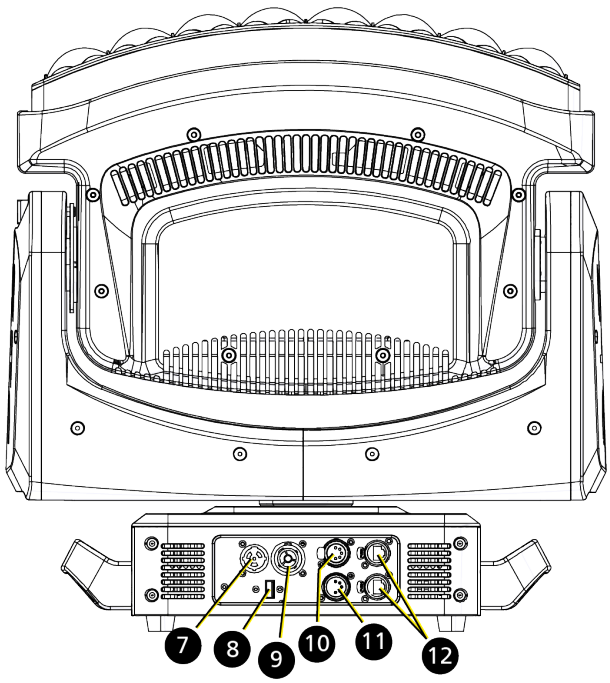
	The luminaire must be installed at least 1.0 m (3 ft 4 in) away from all lighted objects.	Le luminaire doit être installé à au moins 1,0 m (3 pi. 4 po.) de tout objet éclairé.
	General warning	Avertissement général
	Do not stare at the operating light source.	Ne pas regarder la source de lumière lorsqu'elle 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.
	Operate indoors only, not where this product would be exposed to the weather.	Ne fonctionne qu'à l'intérieur, pas là où ce produit serait exposé aux intempéries.

General Operation and Use Guidelines

- This fixture is only allowed to be operated with the maximum alternating current that is stated in the technical specifications label provided on the fixture.
- Lighting effects are not designed for permanent operation. Consistent operation breaks may extend the life of the fixture.
- When choosing the installation location, make sure the fixture will not be exposed to extreme heat, moisture, or dust.
- Do not point the lens toward the sun or other bright light source. Doing so could damage the fixture.
- If using the supplied brackets with quick-locking thumb screws to hang the fixture, ensure that the thumb screws have engaged a complete 90-degree positive latch.
- Operate the fixture only after having familiarized yourself with its functions. Do not permit persons who are not qualified and familiar with its functions to operate the fixture.
- Do not modify the fixture. Any modifications will void the warranty.
- This manual describes the proper installation and operation of this fixture. Using this fixture in any way other than the intended use may cause damage and void the warranty.
- When the fixture has been stored or transported in cold temperatures, allow it to warm to room temperature for a minimum of one hour before applying power. Applying power to a cold fixture may cause damage to the fixture and void the manufacturer warranty.
- Please use the original packaging if the fixture is to be transported. ETC will not be responsible for the fixture if packaging other than manufacturer provided packaging is used.

Fixture Overview





1 Tilt lock (see *Tilt Lock Operation on page 8*)
2: Lens (x8)
3: Display
4: Navigation controls
5 Pan lock
6: Handle
7: Power In
8: USB
9: Power Out
10: DMX Thru
11: DMX In
12: Ethernet ports (x2)

Modular Control

Note: *Some consoles may refer to the Flex effects by the feature name "Macro." For the purposes of the SolaPix Fan 8 software and user manual, "Flex" and "Macro" are interchangeable.*

The SolaPix Fan 8 fixture has three standard modules and one optional module:

- Base: the primary control.
  - The settings in the Base module control the basic functions of the fixture, which include pan, tilt, zoom, and the control settings for the fixture.
- Base + Flex: a full-featured module that provides extensive flex effects and macro controls.
- Wash: a reduced-channel module that simplifies fixture operation.
- Pixel (optional): gives you individual control of each pixel.
  - The Pixel module can be disabled, or it can be set to Compound or Independent mode.
  - In Compound mode, the Pixel module automatically addresses itself to the same source as Base and follows immediately after the address of Base.
  - In Independent mode, you address the Pixel module to any source (DMX or Ethernet), Address, or Universe that your control setup requires.

There are seven library layouts available on the SolaPix Fan 8 fixture depending on the protocol you use and the settings of the Pixel module:

- Base
- Base + Flex
- Wash
- Pixel
- Base + Pixel
- Base + Flex + Pixel
- Wash + Pixel

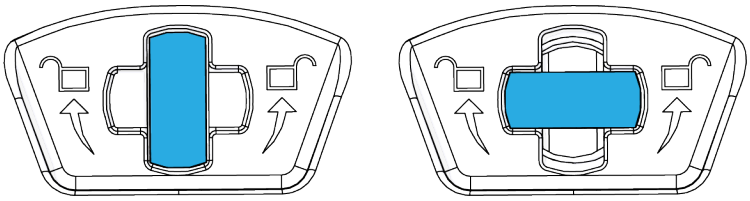
See *Control Options on page 18* for information about setting a protocol and configuring the Pixel module.

Because the modules all control the same light sources, you can set the priority of control using the Module Priority function (channel 12 in the Base module).

See the SolaPix Fan 8 DMX channel map on the ETC website for details: etcconnect.com/SolaPix/Documentation.

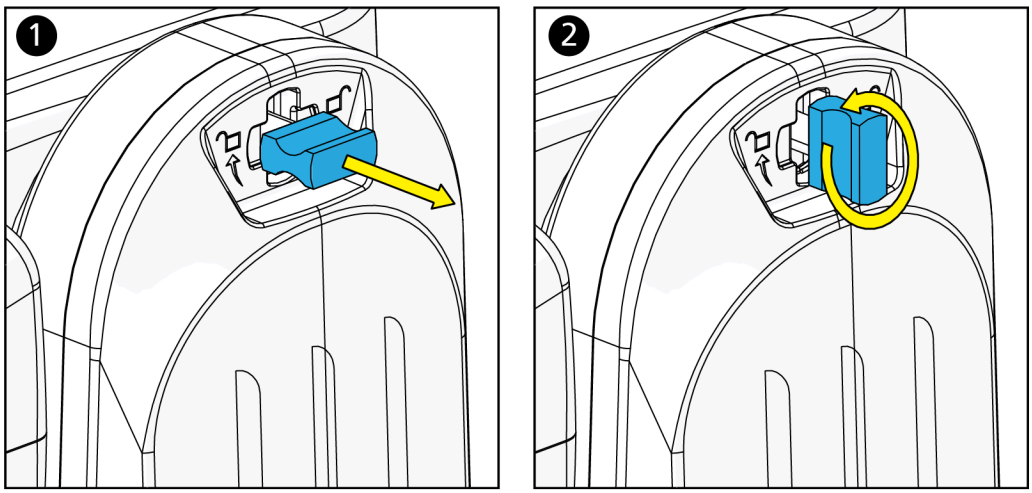
Tilt Lock Operation

The SolaPix Fan 8 tilt lock is locked when the lock is in the vertical position and is unlocked when it is in the horizontal position.



Locked Unlocked

To lock or unlock the tilt lock:



1. Pull the tilt lock away from the yoke arm.
2. Twist the tilt lock 90 degrees left or right.
3. Release the tilt lock so that it is reseated in the yoke arm.

Specifications

For complete technical specifications, see the technical datasheet: etcconnect.com/SolaPix/Documentation.

Environment

- Ambient operating temperature range: -10°C to 40°C (14°F to 104°F).
- Relative humidity: 0%–90%, non-condensing.
- Storage temperature: -20°C to 60°C (-4°F to 140°F).
- Indoor use only.
- Dry locations only, IP20 rated.

Power

WARNING: 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.

Electrical

- 100–240 VAC at 50/60 Hz
- Listed maximum wattage: 413 W

Input and Power Factor

The values listed below were measured with LEDs at full and all motors functioning.

VAC	Amps	Hz	Watts	VA	PF
100	4.2	50	413	416	0.99
120	3.4	60	407	412	0.99
200	2.0	50	398	404	0.98
208	2.0	60	398	404	0.97
220	1.9	50	398	405	0.97
230	1.8	50	394	406	0.97
240	1.7	60	395	412	0.96

CAUTION: ***Using this fixture below 100 V on a 15 A breaker may cause the breaker to trip. Ensure that the circuit can handle the fixture's maximum potential draw before you connect it.***

Fixtures per Circuit

- 4 fixtures via the 15 A power thru connectors
- 4 fixtures via an ETC R20 or similar breaker module

Consult the upstream breaker trip curves when using something other than an ETC R20 or similar breaker module.

Connector Specifications

WARNING: Risk of Shock and Fire. Assemble a grounding-type attachment plug with integral cord grip that is within the voltage and amperage rating of this luminaire.

AVERTISSEMENT : Risque de choc et d'incendie. Assurez-vous d'utiliser une prise de mise à la terre avec décharge de traction intégrée qui respecte la tension et l'ampérage de ce luminaire.

A power input cable with powerCON® TRUE1® TOP input to bare ends is provided. The power input cable is rated for maximum 20 A (120 VAC/60 Hz) and 16 A (240 VAC/50 Hz). Install a suitable connector to meet the installation requirements. See the following wire color code chart:

Wire Color Code (EU)	Wire Color Code (US Standard)	Connection type	Terminal
Green/Yellow	Green	Earth/Ground	⏚
Blue	White	Neutral	N
Brown	Black	Line (Live)	L

Install the Fixture

Overhead rigging must be performed by qualified personnel. Follow all local and national codes and recommended practices.

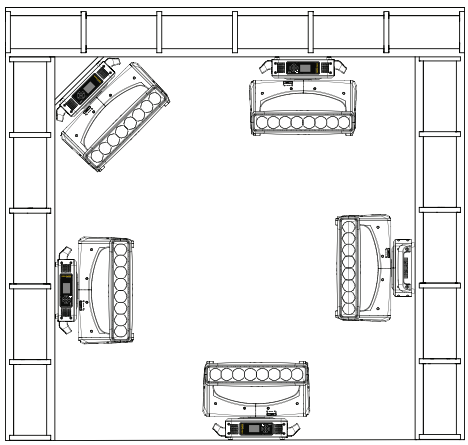
WARNING:

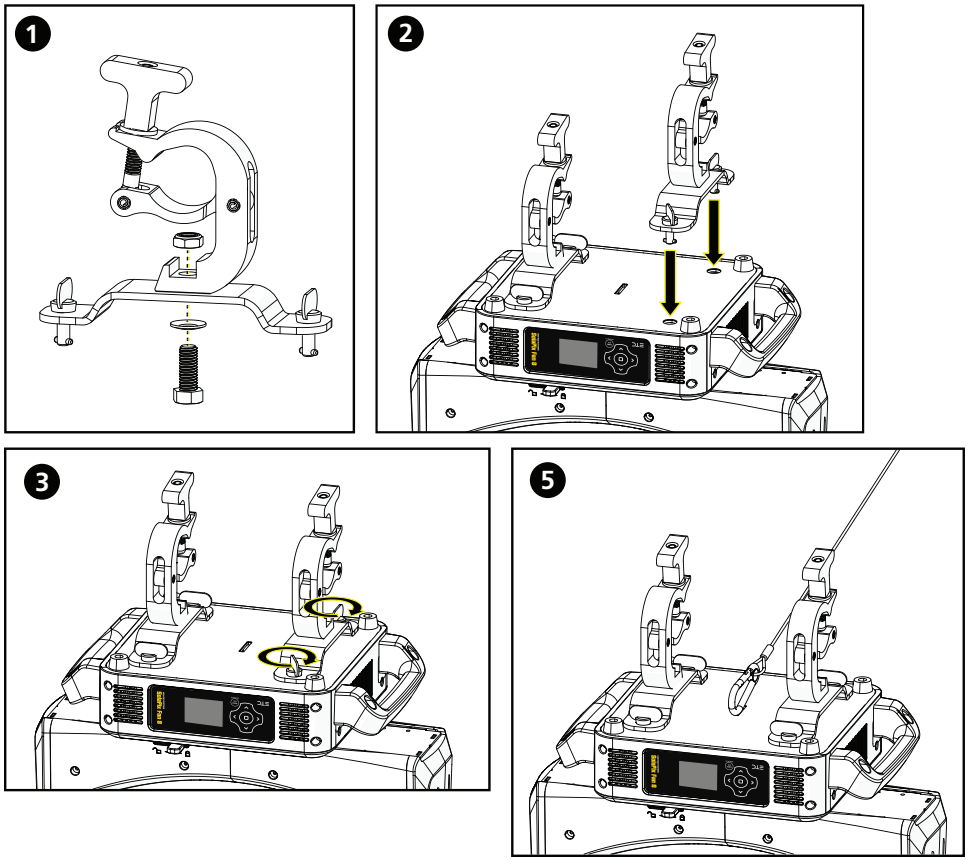
- **The installation location must support a minimum point load of 10 times the weight of the fixture. Fixture weight is 17.3 kg (38.0 lb).**
- **The installation must always be secured with a secondary safety attachment. An appropriate safety cable is supplied.**
- **Safety cable attachment must be rated by a safety factor of 10.**
- **A supportive and stable surface must be used when fixtures are placed on their feet.**
- **Never stand directly below the installed fixture when mounting, removing, or servicing the fixture.**
- **All safety and technical aspects of fixture installation must be approved by qualified personnel before operation.**
- **The installation must be regularly inspected by qualified personnel.**

AVERTISSEMENT :

- **L'emplacement d'installation doit supporter une charge concentrée minimale de 10 fois le poids de l'appareil. Le poids du projecteur est de 17.3 kg.**
- **L'installation doit toujours être sécurisée par une fixation de sécurité auxiliaire. Un câble de sécurité approprié est fourni.**
- **La fixation du câble de sécurité doit être classée avec un facteur de sécurité de 10.**
- **Une surface d'appui stable doit être utilisée quand les projecteurs sont placés sur pieds.**
- **Ne vous placez jamais directement sous le projecteur lors du montage, du démontage ou de son entretien.**
- **Tous les aspects techniques et de sécurité de l'installation du projecteur doivent être approuvés par un personnel qualifié avant qu'il ne soit utilisé.**
- **L'installation doit être régulièrement inspectée par du personnel qualifié.**

You can install the fixture in any of the orientations shown below.





1. Assemble the clamp (provided by others) to the bracket that was provided with the fixture and secure together using appropriately sized hardware (not provided).
2. Align the assembled bracket and quick-lock fasteners into the respective holes on the bottom of the fixture upper enclosure.
3. Tighten each of the quick-lock fasteners fully, turning clockwise. You will hear and feel a click when the fastener is fully secured.
4. Repeat steps 1 through 3 for the second clamp and bracket.
5. Attach the provided safety cable through the attachment point on the bottom of the fixture upper enclosure.
6. Attach the fixture to the installation location using the clamp manufacturer's instructions for a secure fit. When using an Omega clamp, close the safety and fully tighten the clamp wing nut until secure.
7. Secure the safety cable to the trussing system or some other safe installation point. Follow local codes and recommended safety standards for securing the fixture to the installation location.
8. Unlock the pan and tilt locks.
9. Apply power to the fixture.
10. Inspect the installation prior to lifting the fixture overhead.

DMX Control

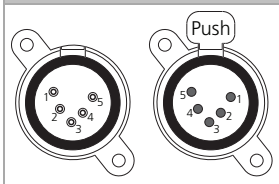
The SolaPix Fan 8 fixture operates on standard DMX-512 control bus, controlled by a DMX console. The fixture requires a maximum of 74 channels of DMX-512.

Attach the fixture to the control bus using a two-core, shielded cable with a 5-pin XLR connector (Belden 9729 is preferred).

The fixture includes two 5-pin XLR connectors, one for DMX Input and one for DMX Thru (for use when daisy-chaining fixtures on the DMX control bus).

DMX Connector Pinout

Use the following standard pinout when preparing DMX cable with 5-pin XLR connectors. ETC recommends using Belden 9729 or equivalent cable. (See the ETC cable cross database for equivalent alternatives: etcconnect.com/cablecross.) The second data pair in the recommended cable type is not used, but is reserved future service.

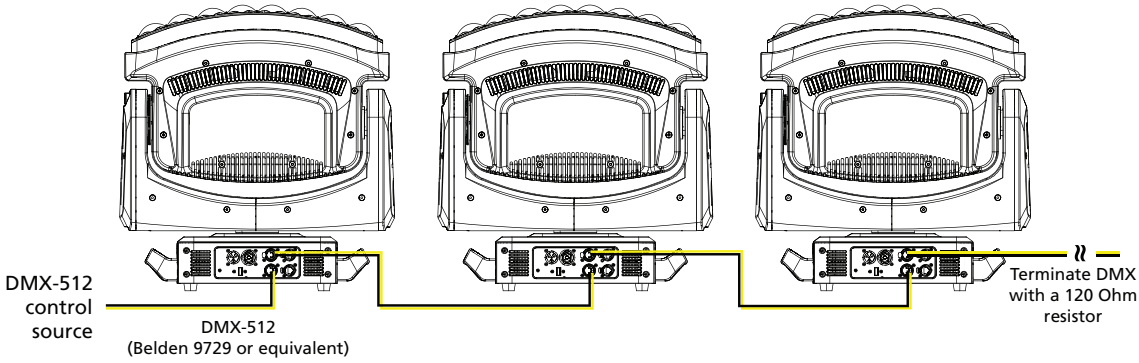
DMX-512 Pinout for Five-Pin XLR	Pin	Use
	1	Common (shield)
	2	Data -
	3	Data +
	4	Not connected
	5	Not connected

Connect DMX Cables to Fixture

The following instructions are guidelines for connecting DMX to your fixture. Your installation may vary.

1. Connect a DMX data cable to the DMX control source and the DMX In XLR receptacle on the first fixture in the DMX data run.
2. Link the remaining fixtures in the data run by connecting a DMX data cable from the DMX Thru connector on a fixture to the DMX In connector on the next fixture in the data run.

Note: *A maximum of 32 DMX devices may be connected in any one DMX data run when installed in a daisy-chain fashion.*



Terminate DMX

Use a DMX terminator or install a resistor on the last fixture of the DMX control run to prevent corruption (data reflection) of the digital control signal by electrical noise.

A DMX terminator is an XLR plug with a 120 Ω resistor connected between pins 2 and 3 that can be installed into the DMX output receptacle of the last fixture in the DMX control run. Contact your authorized dealer or ETC for ordering information (etcconnect.com/contactETC), or purchase an XLR DMX terminator from the ETC Online Shop (shop.etcconnect.com).

DMX Control and Ethernet Output

While many of the High End Systems fixtures automatically convert DMX signals to network data, the SolaPix Fan 8 does not include that feature due to its multiple data source processing capabilities.

Set the DMX Start Address

Give each fixture a unique DMX starting address so that the correct fixture responds to the control signals. This DMX start address is the channel number from which the fixture starts to "listen" to the digital control information sent out from the control source.

Modify the fixture DMX start address on the user interface, located on the upper enclosure. See *Control Options on page 18*.

Example: *The SolaPix Fan 8 requires up to 74 channels of control depending on the protocol you use and the settings of the Pixel module.*

- *Base uses 26 channels.*
- *Base + Flex uses 42 channels.*
- *Wash uses 16 channels.*
- *If the Pixel module is set to Compound mode, then an additional 32 channels are added to Base, Base + Flex, or Wash.*

DMX Channels

The current DMX channel map for the SolaPix Fan 8 can be found on the ETC website: etcconnect.com/SolaPix/Documentation.

Ethernet Control

The SolaPix Fan 8 fixture includes two Ethernet ports that allow sending and receiving of control signals using the Art-Net protocol or sACN.

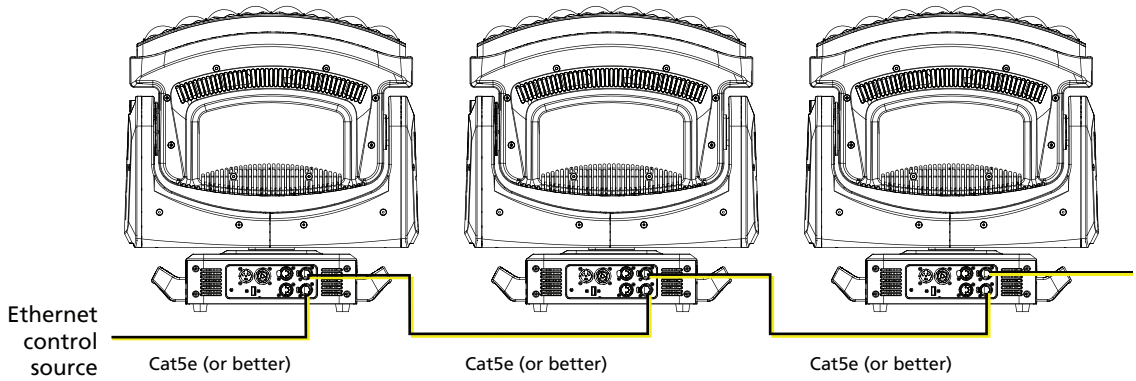
Use a Cat5e (or better) cable and terminate to RJ45 connectors following the TIA/EIA 568B wiring standard.

Connect Ethernet Cables to a Fixture

The following instructions are guidelines for connecting Ethernet to your fixture. Your installation may vary.

1. Connect a cable from the Ethernet control source to one of the Ethernet ports on the first fixture in the Ethernet control run.
2. Connect the first fixture to a second fixture by connecting a cable from the second Ethernet port on the first fixture to one of the Ethernet ports on the second fixture.
3. Continue linking the remaining fixtures by connecting a cable from Ethernet port to Ethernet port on the fixtures on the control run.

Note: *The Cat5e cable distance should not exceed 100 m (328 ft), and you should not connect more than 20 fixtures in one Ethernet control run when the fixtures are installed in a daisy-chain fashion.*



Ethernet Control and DMX Thru

While many of the High End Systems fixtures automatically convert network data signals to DMX, the SolaPix Fan 8 does not include that feature due to its multiple data source processing capabilities.

Set the DMX Start Address

Give each fixture a unique DMX starting address so that the correct fixture responds to the control signals. This DMX start address is the channel number from which the fixture starts to "listen" to the digital control information sent out from the control source.

Modify the fixture DMX start address on the user interface, located on the upper enclosure. See *Control Options on page 18*.

Example: *The SolaPix Fan 8 requires up to 74 channels of control depending on the protocol you use and the settings of the Pixel module.*

- *Base uses 26 channels.*
- *Base + Flex uses 42 channels.*
- *Wash uses 16 channels.*
- *If the Pixel module is set to Compound mode, then an additional 32 channels are added to Base, Base + Flex, or Wash.*

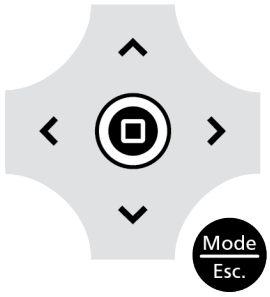
Set the Control Source and Universe

For Ethernet control, you must configure the control source (Art-Net or sACN) and set a universe (000-255) for each fixture. See *Control Options on page 18* for details.

Configure the Fixture

You can configure SolaPix Fan 8 fixtures through the onboard user interface.

Navigate the User Interface



1. Press the [MODE/ESC] button Mode Esc. to access the main menu. (The display is powered by battery when the fixture has no power; press and hold the [MODE/ESC] button Mode Esc. for three seconds to access the main menu.)
2. Browse the menu by pressing the up, down, left, or right navigation buttons.
3. Press the Enter button to select a menu item.
4. Modify the selection by pressing the up, down, left, or right navigation buttons according to the selection.
5. Press the Enter button to confirm a modified selection.
6. To exit the menu, press the [MODE/ESC] Mode Esc. button.

Set Fixture Parameters

This section provides instructions to configure and set up the SolaPix Fan 8 fixture. See *Navigate the User Interface on page 17* for information about the navigation buttons.

Provide power to the fixture before configuring it. If you do not provide power, the fixture will use battery power to power the user interface.

Control Options

Navigate: Main Menu → Address

The Address menu lets you configure the control source.

Parameter	Value	Description
Protocol	• Base • Base + Flex • Wash	Set the DMX protocol: • Base: (default) • Base + Flex: a full-featured mode that provides extensive flex effects and macro controls • Wash: a reduced-channel mode that simplifies fixture operation
Source	• DMX • Art-Net • sACN	Select the control source.
Address	001–xxx	Set the DMX address for the fixture.
Universe	000–255	When using Art-Net or sACN control source, set the universe.
Pixel Module	See *Configure the Pixel Module on page 19* for details.	

Configure the Pixel Module

Navigate: Main Menu → Address → Pixel Module

The Pixel module is an optional feature and is turned off by default.

Parameter	Value	Description
Mode	• Compound • Independent • Disable	Select how the Pixel module is implemented: • Compound - the module inherits its Source, Address, and Universe settings from the overall settings for the fixture. • Independent - the addressing and control of the module are specific to the Pixel module. See the *Source*, *Address*, and *Universe* settings for details. • Disable - the module is off. The default mode is Disable.
Source	• DMX • Art-Net • sACN	Select the control source for the Pixel module. Note: This option is only available when the Mode selection is set to **Independent**. When you set the module to **Compound** mode, the Source is inherited from the Source setting for the fixture.
Address	001–xxx	Set the DMX address for the Pixel module. Note: This option is only available when the Mode selection is set to **Independent**. When you set the module to **Compound** mode, the Address is inherited from the Address setting for the fixture.
Universe	000–255	When using Art-Net or sACN control source, set the universe. Note: This option is only available when the Mode selection is set to **Independent**. When you set the module to **Compound** mode, the Universe setting is inherited from the Universe setting for the fixture.

Example Use Cases

Default Use Case

The system has a small number of fixtures and limited universes of DMX, so numerous channels of DMX cannot be dedicated to each individual fixture.

Example:

For each fixture:

- *Set a DMX source and a unique address.*
- *Set the Pixel module to Disable mode.*
- *Recommended console library: Base + Flex*

The result: All fixtures have 42 channels of control for Base functions and Flex animations.

Many Universes of DMX Controlled by a Console

The system has many universes of DMX available, so 74 channels of DMX can be dedicated to each individual fixture.

Example:

For each fixture:

- *Set a DMX source and a unique address.*
- *Set the Pixel module to Compound mode.*
- *Recommended console library: Base + Flex*

The result: All fixtures have 74 channels of control for functions, animations, and pixels.

Separate Console Control and Video Server Control

The system contains a video control source in addition to a DMX console.

Example:

For each fixture:

- *Set a DMX source and a unique address.*
- *Set the Pixel module to Independent mode, set the sACN or Art-Net source for the Pixel module, and assign a unique DMX address and universe to the Pixel module.*
- *Recommended console library: Base + Flex*

The result: All fixtures have control for the 42 channels of functions and animations via DMX and 32 channels of control for the Pixel module via Ethernet from a video server.

Info Menu

View Software Version

Navigate: Main Menu → Info → Software Ver

Displays the software version installed on the fixture.

View Fixture Head Temperature

Navigate: Main Menu → Info → Head Temp

Displays the current fixture temperature as read from the fixture head (near the CMY filter).

View Power Temperature

Navigate: Main Menu → Info → Power Temp

Displays the current temperature as read from the power supply in the fixture base, which can help you to determine if the power supply is overheating.

Set the Time Information

Navigate: Main Menu → Info → Time Info

Parameter	Value	Description
Current Time	XXXX (Hours)	Running time of the fixture from the last time that the fixture was powered on, shown in hours (h). The counter resets after the fixture is turned off.
Ttl Life Hrs	XXXX (Hours)	Total running time of the fixture, shown in hours (h).
Last Run Hrs	XXXX (Hours)	Running time of the fixture from the last time that the run time value was reset, shown in hours (h).
LED Hours	XXXX (Hours)	Total running time of the fixture LEDs, shown in hours (h).
Timer PIN	Timer PIN XXX	You must enter the Timer PIN in order to access the Clr Last Run menu item. The default Timer PIN is 038.
Clr Last Run	• ON • OFF	This password-protected menu item resets the Last Run Hrs value. You must enter the Timer PIN to access this menu item. Select ON to clear the value for the Last Run Hrs parameter for the fixture.
LED Time PIN	LED Time PIN XXX	You must enter the LED Time PIN in order to access the Clear LED Time menu item. The default LED Time PIN is 038.
Clear LED Time	• ON • OFF	This password-protected menu item resets the LED Hours value. You must enter the LED Time PIN to access this menu item. Select ON to clear the value for the LED Hours parameter.

View Fixture Errors

Navigate: Main Menu → Info → Error Info

Displays any current fixture errors. See *Error Codes on page 28* for information about the errors.

View DMX Values for Channels

Navigate: Main Menu → Info → DMX Value

View the DMX value of one of the fixture's channels. Scroll to the channel that you want to view (Pan Coarse, Pan Fine, etc.) and press the Enter button. The DMX value of the channel you chose is shown in the main window of the UI.

View Fan Speeds

Navigate: Main Menu → Info → Fan Speed

Displays the speeds of the fixture's fans (in RPM).

View Sensor Status

Navigate: Main Menu → Info → Sensors

Displays the status of the sensors, which can help you to determine whether the fixture is recognizing the movement and position of the zoom rail and the pan and tilt drive gears. The display toggles between ON and OFF as a magnet passes one of the sensors.

View Ethernet IP Address

Navigate: Main Menu → Info → Ethernet IP

Displays the Ethernet IP address for the fixture. You can modify this value in the Set menu. See *Access Service Settings on page 24*.

Set Menu

Set the Status Options

Navigate: Main Menu → Set → Status

Parameter	Value	Description
No DMX Mode	• Close Shutter • Hold • Auto Program	Control mode when DMX is absent. The default value is Hold.
Pan Reverse	• ON • OFF	Reverse the pan movement of the fixture. The default value is OFF.
Tilt Reverse	• ON • OFF	Reverse the tilt movement of the fixture. The default value is OFF.
Pan Degree	• 630 • 540	Change the pan rotation of the fixture from the default setting of 540 degrees to 630 degrees.
Encoders	• ON • OFF	Turn on or off the encoder feedback for pan and tilt movement. You may want to turn off encoders when working on a fixture so that you can move pan and tilt without the fixture automatically moving back to position.
Hibernation	• OFF • 1–99 minutes	Hibernation mode forces the LEDs and stepper motors to power off when the fixture loses DMX control signal for a set period of time. The default time setting is 15 minutes.
Refresh Rate	• 2.4 kHz • 16 kHz	Set the refresh rate of the fixture. The 16 kHz setting is quieter than the 2.4 kHz setting and creates a beam that does not flicker when shown on camera. The 2.4 kHz setting prioritizes flawless, stepless dimming.
P/T Home Mode	• Standard • Tilt First • Pan First	Set the order in which pan and tilt homing is performed. • Standard: the pan and tilt home procedures run simultaneously. • Tilt First: the tilt home procedure runs to completion, then the pan home procedure begins. • Pan First: the pan home procedure runs to completion, then the tilt home procedure begins.

Access Service Settings

Navigate: Main Menu → Set → Service Setting

Parameter	Value	Description
Service PIN	Service PIN XXX	You must enter the Service PIN in order to access the other Service Setting parameters. The default Service PIN is 050.
RDM UID	Manufacturer ID and a randomly generated number	This password-protected menu item lets you modify the RDM UID. You must enter the Service PIN to access this menu item. **Note:** Remote Device Management (RDM) requires that all RDM devices have a unique identifier (UID). Modifying this setting can break the RDM capability of this fixture. Duplicate RDM UIDs on the same DMX control run will result in a data collision, causing a communication failure. Ensure that all fixtures have a unique RDM UID if RDM functionality is to be used. If DMX splitters are used and RDM control is to be used, these splitters must support RDM.
Ethernet IP	• Set As IP2 • Set As IP10 • Set As Any IP	This password-protected menu item lets you view the IP addresses used when Art-Net is the Ethernet source and change the IP address used when sACN is the Ethernet source. You must enter the Service PIN to access this menu item. • Set As IP2: This is a view-only IP address used with Art-Net. • Set As IP10: This is a view-only IP address used with Art-Net. • Set As Any IP: Change the IP address used with sACN. - Press the left and right navigation buttons to move between the octets. - Press the up and down navigation buttons to change the value of the selected octet.
Ethernet Mask IP	XXX.XXX.XXX.XXX	This password-protected menu item lets you modify the IP subnet mask. You must enter the Service PIN to access this menu item. The default IP subnet mask is 255.000.000.000. • Press the left and right navigation buttons to move between the octets. • Press the up and down navigation buttons to change the value of the selected octet.
Clr Err Info	• ON • OFF	This password-protected menu item lets you clear error messages after you have fixed the errors. You must enter the Service PIN to access this menu item. Set this parameter to ON in order to clear the error messages. The default setting is OFF.

Set the Fans Mode

Navigate: Main Menu → Set → Fans Mode Setting

Select the fan mode for the fixture:

- Standard
- Studio (reduces fan noise, but decreases fixture output by approximately 20%)

Note: *Fan Speed DMX control overrides the Fans Mode setting in the fixture user interface when the DMX control is set to Auto or Studio. See the SolaPix Fan 8 DMX channel map for more details: etcconnect.com/SolaPix/Documentation.*

Set Display Settings

Navigate: Main Menu → Set → Disp. Setting

Parameter	Value	Description
Shutoff Time	02–60 minutes	Enter the amount of time the fixture waits after the last user interface button press until the display goes to sleep. The default value is 5 minutes.
Flip Display	• ON • OFF	Flip the display 180° when the fixture is mounted vertically. The default value is OFF. Shortcut: With the main UI window displayed, press [>] to flip the display 180°. Press [<] to flip it back to its original orientation.
Key Lock	• ON • OFF	Lock the user interface. The default value is OFF. To unlock the user interface navigation buttons, press and hold the [MODE/ESC] button for three seconds.

Set the Temperature Scale

Navigate: Main Menu → Set → Temp. C/F

Select the temperature scale for the fixture:

- Celsius (default value)
- Fahrenheit

Update Software

For assistance, contact ETC Technical Services. See *Help from Technical Services on page 2*.

CAUTION: ***Do not remove the USB drive from the fixture until the update procedure is finished and the fixture display returns to its default state.***

Navigate: Main Menu → Set → USB Update

Fixture software updates are available on the ETC website at etcconnect.com/Products/Automated-Fixtures.

1. Save the software update file to a USB drive.
2. Insert the USB drive into the USB port on the fixture base.
3. On the **Main Menu**, select **Set** → **USB Update**. The fixture reads the USB drive and displays a list of any software update files on the USB drive.
4. Select the .NCW file and press the Enter button.
5. The software prompts you to confirm the update with the message "Update fixture?" Use the navigation buttons to select "Yes," and then press the Enter button to start the software update.
   - A progress monitor shows you the progress of the update.
   - When the update is complete, the fixture performs a data check to verify the update and then the fixture restarts itself.
   - The software update is complete when the display returns to its default state.
6. Remove the USB drive from the fixture.

Reset Fixture to Factory Default Settings

Navigate: Main Menu → Set → Reset Default

Select ON to reset the fixture to the factory default settings.

Test Menu

Reset (Home) the Mechanical Positions on the Fixture

Navigate: Main Menu → Test → Home

Reset ("home") all features on the fixture, including, pan, tilt, colors, gobos, etc.

Test the Fixture

Navigate: Main Menu → Test → Self Test

Run a self-test program on the fixture. When you run the test, the display indicates "Running" and the fixture automatically runs a self-test procedure, testing each of the functions. Press the [MODE/ESC] button to end the self-test and return the display to the previous menu.

Test an Individual Channel

Navigate: Main Menu → Test → Test Channel

Run a self-test program on individual channels. The default value is Control. Select a different channel to run a self-test on that channel.

Manually Set an Individual Channel

Navigate: Main Menu → Test → Manual Ctrl.

Select an individual channel on the fixture and manually set the channel value. While in Manual Control mode, all effects are canceled, the shutter opens, and the dimmer intensity is set to 100%.

Re-Calibrate an Individual Feature

Navigate: Main Menu → Test → Calibration

Please contact Technical Services before using this parameter. See *Help from Technical Services on page 2*.

You must enter the Calibration PIN in order to access the Calibration menu items. The default Calibration PIN is 050.

Once you have accessed the Calibration menu, select an individual feature on the fixture and manually calibrate it to a new "home" setting.

Note: *Changes you make to the fixture settings in the Calibration menu are not changed if you reset the fixture to the factory default settings. The Calibration settings are saved until they are changed in the Calibration menu.*

Preset Menu

Navigate: Main Menu → Preset

Presets are built by combining scenes into programs and then assigning the programs to Program Partitions for playback. For information about the **Preset** menu, access the *High End Systems Preset Menu Guide* from the ETC support website: support.etcconnect.com.

Error Codes

When you apply power to the fixture, it runs a calibration (homing) sequence and displays any errors that it detects.

Example: *When the display shows "Error channel: Pan Coarse", it means there is an error in channel 1. When multiple errors are present they will cycle on the display twice, and then the fixture will reset (restart). Any errors that remain after two reset cycles are not correctable by reset alone and will require service. These errors are stored in the fixture error history until the errors are cleared. Please contact Technical Services for assistance.*

Pan

This message displays after the reset of the fixture if any of the following conditions exist:

- the yoke's magnetic-indexing circuit malfunctions (optical or magnetic sensor failure)
- the stepper motor is defective or the related IC driver on the main PCB has failed
- the Pan movement is not located in the default position after the reset

Tilt

This message displays after the reset of the fixture if any of the following conditions exist:

- the fixture head magnetic-indexing circuit malfunctions (optical or magnetic sensor failure)
- the stepper motor is defective or the related IC driver on the main PCB has failed
- the Tilt movement is not located in the default position after the reset

Zoom

This message displays after the reset of the fixture if any of the following conditions exist:

- the magnetic-indexing circuit malfunctions (optical or magnetic sensor failure)
- the stepper motor is defective or the related IC driver on the main PCB has failed
- the Zoom wheel is not located in the default position after the reset

Maintenance

CAUTION: ***RISK OF ELECTRIC SHOCK! Disconnect power before servicing.***

ATTENTION : ***RISQUE DE CHOC ÉLECTRIQUE! Couper l'alimentation avant l'entretien.***

To ensure that the fixture remains in good working condition and does not fail prematurely, ETC recommends that you perform regular maintenance on the fixture.

Keep the following in mind during regular service and inspection:

- All screws for installing the fixture or parts of the fixture must be tightly connected and must not be corroded.
- There must not be any deformations to the housing, lenses, rigging, and installation points (ceiling, suspension, trussing).
- Moving parts must not show any signs of wear and must move smoothly without issue.
- The power supply cables must not show any damage, material fatigue, or sediment.
- If spare parts are required, order only genuine parts from ETC or your authorized ETC dealer.

Clean the Fixture

CAUTION: ***The backside of each lens in the SolaPix Fan 8 fixture is coated with a HazeFree lens coating technology (patent pending) that keeps the lens clear when the fixture is used with theatrical haze. Use of paper toweling or other abrasive, high-friction wipes and ammonia-based glass cleaners may permanently damage the coating.***

If the lens coating wears away, contact ETC Technical Services for assistance.

1. Clean the lens only when necessary, and only use a Silky Microfiber Optical Cloth with purified water or an ammonia-free glass cleaner such as Miller Stevenson MS-260 Glass Cleaner.
2. Clean the fans regularly to ensure maximum airflow and efficient cooling. This will ensure that the light source operates in the best possible condition.

Note: *If you use compressed air to clean the fans, hold the fan blades in place while cleaning them. Letting the fans spin while using compressed air could damage the fans.*

Replace the Fuse

The fuse in this fixture is not user-replaceable. Contact ETC Technical Services for assistance. See *Help from Technical Services on page 2* for contact information.

Compliance

For current and complete compliance information, view the product datasheet at etcconnect.com/Products/Automated-Fixtures. For complete product documentation, including compliance documentation, visit etcconnect.com/products.

FCC Compliance

SolaPix Fan 8

(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.*

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