StudioLive™ AR-Series

Hybrid Digital/Analog Production Mixers

Quick Start Guide

Ⱶⱶ PreSonus®

www.presonus.com

Table of Contents

1   Overview

1.1   What is in the Box

In addition to this manual, your StudioLive package contains the following:
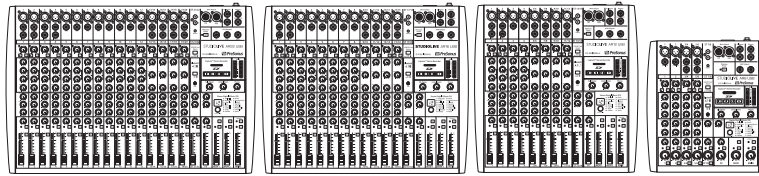
- PreSonus StudioLive AR22, AR16 USB, AR12 USB, or AR8
  USB hybrid digital/analog performance mixer
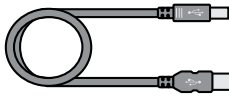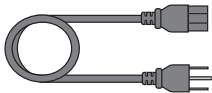
- 6-foot (1.8-meter), USB cable

- IEC power cord
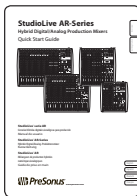
- StudioLive AR-Series Quick Start Guide

1.2   What is in your My PreSonus Account

Once you register your StudioLive AR mixer at My.PreSonus.com, you will find the following software available for download in your user account:

- StudioLive AR-Series Owners Manual

- StudioLive AR-Series Software Reference Manual

- Capture multitrack-recording software

- Studio One Artist DAW software and bundled content

- ASIO drivers for Windows systems (macOS users do not require a driver)

English

Español

Deutsch

Français

2 Getting Started

Before you begin, here are a few general rules of thumb:

- Always turn down the Main, Control Room, and Phones level controls before making connections.

- Before plugging or unplugging a microphone while other channels are active, mute the channel to which you are connecting.

- Channel levels should be set on or near the "U" mark whenever possible. The "U" indicates unity gain, meaning the signal is neither boosted nor attenuated.

- Do not allow your inputs to clip. Watch the signal indicators and make sure the red Clip indication illuminates rarely, if ever. Clipping (overloading) the inputs can result in digital distortion, which sounds terrible.

Warning: Engaging phantom power or connecting sources without muting the channels can result in a very loud pop that can potentially damage your sound equipment. Always mute your channels before engaging Phantom power or connecting sources.

P.A. and studio equipment should be powered on in the following order:

- Sound sources (keyboards, direct boxes, microphones, etc.) connected to the StudioLive AR inputs

- StudioLive AR mixer

- Computer (if applicable)

- Power amplifiers or powered monitors

When it's time to power down, your system should be turned off in the reverse order. Now that you know what not to do, let's get some audio going!

2.1 Level-Setting Procedure
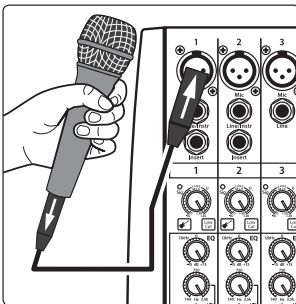
1. Grab a microphone and a mic cable and plug them into the Channel 1 mic input.
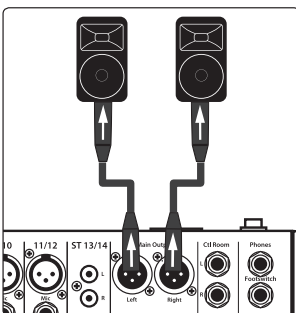
2. Connect the Main outputs of your StudioLive AR to your power amplifier or powered monitors.

3. Bring down all the level controls on your StudioLive AR to the lowest setting.

4. Make sure that the Mic/Line knob on Channel 1 is turned all the way counter-clockwise.

5. Plug your StudioLive AR-series mixer into a power outlet and turn it on.

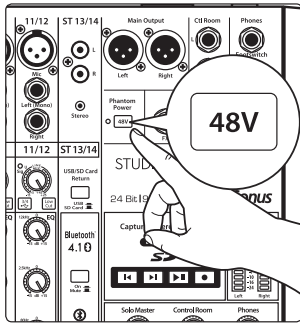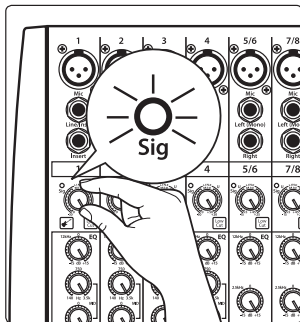6. If your microphone requires phantom power, engage the 48V button on your StudioLive AR mixer.

7. Turn on your amplifier or powered monitors.

8. Speak or sing into your microphone at approximately the same volume you expect during the performance.

9. Turn the trim knob on Channel 1 clockwise while watching the signal indicator. Adjust the Channel 1 trim knob until the signal/clip indicator is red, then back down until it is green and just below clipping at the loudest input level.
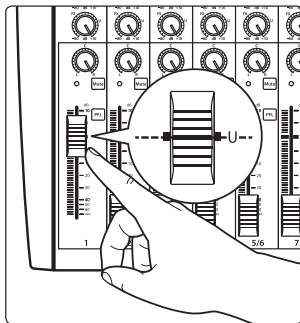
10. Raise the Channel 1 level control to unity gain (denoted with a "U").
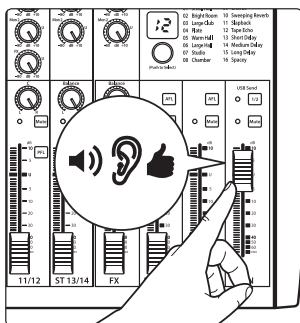
11. Bring up the Main level until you can comfortably listen to your microphone through your speakers.

12. Sculpt the sound by adding EQ to taste.

2.2 Pairing a Bluetooth Device

To pair a new device to your StudioLive AR-series mixer:

1. Press and hold the Bluetooth pairing button for three seconds.

2. The Bluetooth button will flash once every second.

3. Search for new Bluetooth devices from the device to which you'd like to pair (smartphone, tablet, etc).

4. Select "StudioLive AR22/AR16/AR12/AR8 USB" from the available Bluetooth devices list on the pairing device.

5. The Bluetooth button will illuminate solid when paired successfully.

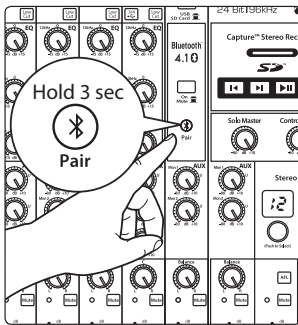*Note: If previously paired, your StudioLive AR mixer will connect automatically. The Bluetooth pairing button will flash rapidly (two to three times per second) while the Bluetooth module detects connected devices and will illuminate solid when it is successfully paired.*

2.3 SD Recording

This section explains on how to record the main mix as a stereo WAV file:
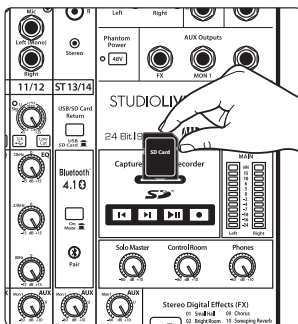
1. Insert a FAT16-formatted SD card or FAT32-formatted SDHC card into your StudioLive AR mixer. An SD card will provide up to 2 GB of storage space. An SDHC card will provide up to 32 GB.
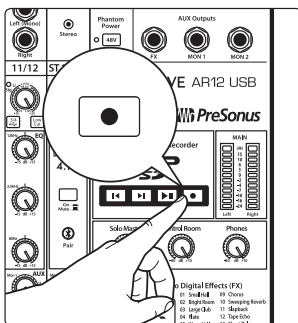
2. Press the Record button.

3. Recording will begin when the Play/Pause and Record buttons are both illuminated.

   If no SD card is recognized, the Record button will flash three times.

4. Press the Play/Pause button to stop the recording.

   Once complete, you can transfer your recordings onto your computer by inserting the SD card into your computer's SD card reader and copying the files to your computer's hard drive. Each file will be labeled with an "SL-AR" heading, followed by a number.
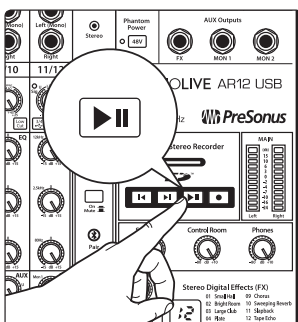
2.4 **Typical Band Setup Diagram**

Electric guitar amp

Bass

Lead vocal

Drum kit

Front of house speakers

11/12   ST 13/14   Main Out   Ctl Room   Phones

Mic   Mic   Mic   Mic   Mic   Mic   Mic   Footswitch

Line/Instr   Line/Instr   Line   Line   Left (Mono)   Left (Mono)   Left (Mono)   Left (Mono)   Left   Right   L   R

Insert   Insert   Right   Right   Right   Right   Stereo   Phantom Power   AUX Outputs

48V   FX   Mix 1   Mix 2

Keyboard

Music Playback

Floor wedges

PreSonus®   STUDIOLIVE® AR12 USB   24 Bit.|96kHz   CAUTION   WARNING

Power   100-240V~, 50-60Hz, 25W   USB2.0   211-160301

Laptop running Capture
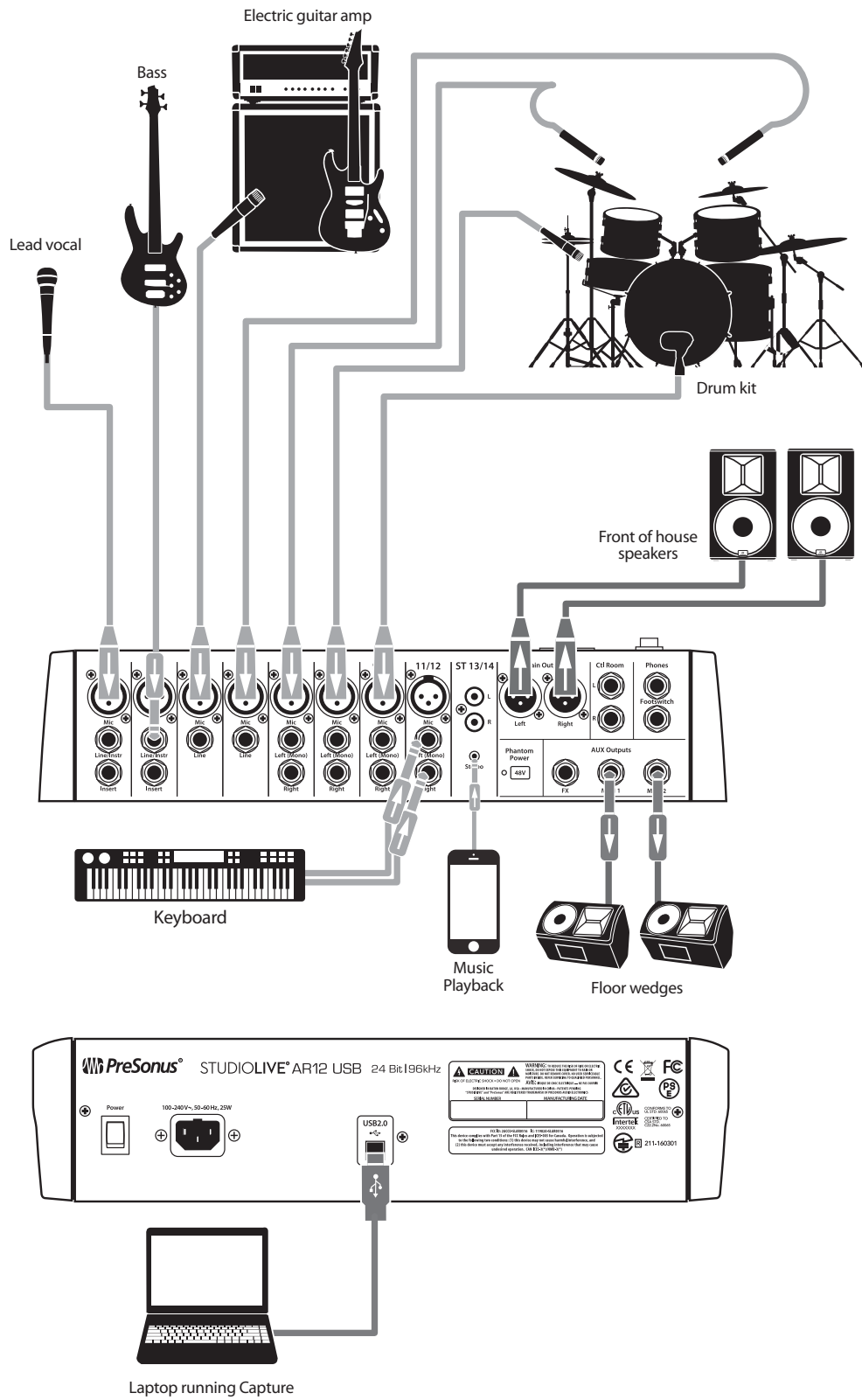
Added bonus: PreSonus' previously Top Secret recipe for…

Redfish Couvillion

Ingredients:

- ¼ C Vegetable oil
- ¼ C flour
- 1 onion diced
- 1 clove garlic minced
- 1 green pepper diced
- 3 celery stalks diced
- 1 14oz can diced tomatoes
- 1 bottle light beer
- 2 bay leaves
- 1 tsp thyme
- 2 lbs Redfish fillets

Cooking Instructions:

1. In a heavy saucepan or large skillet, heat oil on medium high and slowly add flour a tablespoon at a time to create a roux. Continue cooking the roux until it begins to brown, creating a dark blond roux.
2. Add garlic, onions, green pepper, and celery to roux.
3. Sauté vegetables for 3-5 minutes until they start to soften.
4. Add tomatoes, bay leaves, thyme, and redfish. Cook for several minutes.
5. Slowly add beer and bring to a low boil.
6. Reduce heat and simmer uncovered for 30-45 minutes until redfish and vegetables are completely cooked, stirring occasionally. Break up redfish into bite size chunks and stir in. Add pepper or hot sauce to taste. Do not cover.
7. Serve over rice

Serves 6-8

While not one of Southeast Louisiana's more famous dishes, Redfish Couvillion is a favorite way to serve our favorite Gulf fish. Also known as Reds or Red Drum, Redfish is not only fun to catch, it's also delicious!

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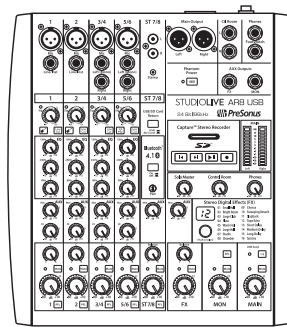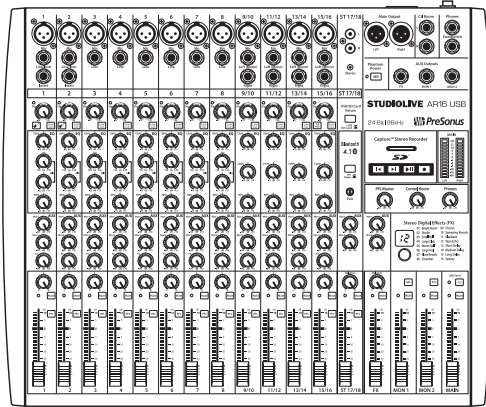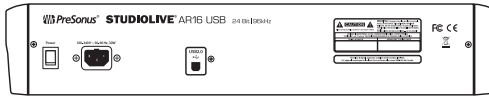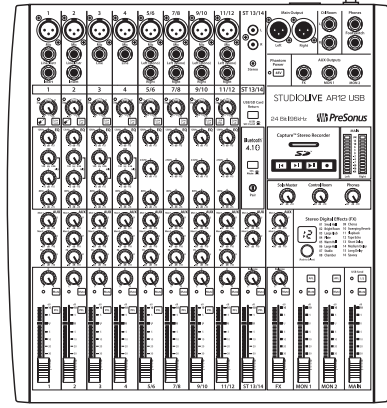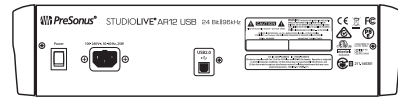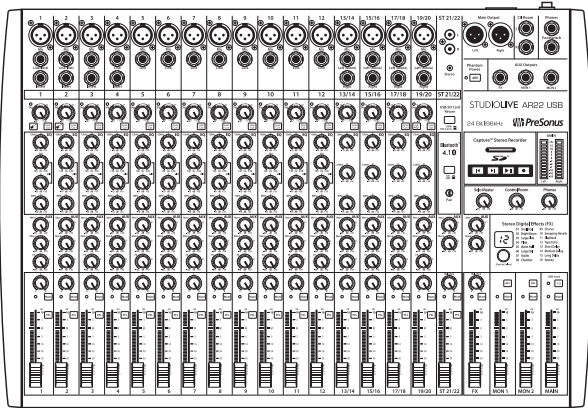
PreSonus Safety Warnings and Instructions

Electrical information and warning symbols for PreSonus products are located on the rear electrical panel of the unit adjacent to the electrical plug or on the bottom of the unit along with other product compliance information.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
ATTENTION: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) AS THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

CAUTION: To reduce the risk of electric shock, do not expose this appliance to rain and moisture. Do not expose this device to dripping or splashing liquids and no object filled with liquids, such as vases, should be placed on the device.

CAUTION: These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operation instructions. Qualified service personnel must perform repairs.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources, such as radiators, heat registers, stoves, or other device (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the device.
11. Use only attachments/accessories specified by PreSonus.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with this device. Use caution when moving a cart/device combination to avoid injury from tip-over.
13. Unplug this device during lightning storms or when unused for long periods.
14. Servicing is required when the device has been damaged in any way, such as if a power-supply cord or plug is damaged; or liquid is spilled, or objects have fallen into the device; or if the device has been exposed to rain or moisture, does not operate normally, or has been dropped. All PreSonus products in the USA should be serviced at the PreSonus factory in Baton Rouge, Louisiana. If your PreSonus product requires a repair, contact support@presonus.com to arrange for a return authorization number. Customers outside the USA should contact their local distributor. Your distributor's contact information is available at www.presonus.com.
15. Protective grounding(earthing) terminal. The apparatus should be connected to a mains socket outlet with a protective grounding(earthing) connection.
16. Where the Mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

PreSonus Compliance Information

European Union (EU)

The **CE mark** on this product indicates that the device is compliant with the EU Council Directives and Standards relating to electromagnetic compatibility, EMC Directive (2006/95/EC) and Low Voltage Directive (2004/108/EC) as well as EU RoHS Directive 2012/65/EU.

RoHS This product is compliant with EU Directive 2012/65/EU for the Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment. No lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr+6), PBBs, or PBDEs above the maximum allowable concentrated value has been intentionally added to materials used in this device. Any traces of impurities of these substances that may be found in this device are below allowable RoHS restricted limits.

Specifics on conforming standards used to test for and determine compliance with CE marking with each PreSonus model are listed on the product's CE Declaration of Conformity (DoC). For a copy of a specific product DoC, contact PreSonus at support@presonus.com.

REACh This product is compliant with EU Directive EC1907/206 for the Registration, Evaluation, Authorization, and Restriction of chemicals and contains none or less than 1% if the chemicals listed as SVHCs.

WEEE This symbol on this product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

EMC (Electromagnetic Compliance)

PreSonus products are designed and tested to comply with the following standards according to product applicability:

FCC Part 15 Class B	EN 55103-1 E1, E2, E3
	EN 55103-2 E1, E2, E3
AS/NZS 4538 Class B	CISPR 22 Class B

Radio and Television Interference

If these symbols are marked on the product, the device complies as follows:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

USA: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this device not expressly approved by PreSonus Audio Electronics could void the user's authority to operate the equipment under FCC rules.

CALIFORNIA PROP65 WARNING:

WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. For more information: http://www.presonus.com/Prop-65

Australian Compliance: This equipment complies with Radio communication Devices Notice 2003; or Radio communication Labeling (Electromagnetic Compatibility) Notice 2008; or Radio communication (Compliance Labeling Electromagnetic Radiation) Labeling Notice 2003.

ISED WARNING

ISED RSS warning: This device complies with ISEDC licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Under IESDC regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISEDC. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that, the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (identify the device by certifcation number, or model number if Category II) has been approved by ISEDC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

ISED Radiation Exposure Statement:

This equipment complies with ISED RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ICES003: This CAN ICES3 (A)/NMB3(A) digital apparatus complies with Canadian ICES003.

ISED RSS warning: Le présentappareilestconforme aux CNR d'ISEDCaapplicables aux appareils radio exempts de licence. L'exploitationestautorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

Conformément à la réglementation dISEDC, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISEDC . Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par ISEDC pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal etl'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

ISED exposition aux radiations:

Cet équipement est conforme avec ISED les limites d'exposition aux rayonnements définies pour un contrôlé environnement. Cet émetteur ne doit pas être co-localisés ou fonctionner en conjonction avec une autre antenne ou émetteur.

Cela peut CIEM 3 (A) / NMB 3 (A) Cet appareil numérique est conforme à la norme NMB 003.

PreSonus Health, Safety, and Compliance Guide. Part# SAF-PAE0001-H / 70-02500002-B
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www.presonus.com