

Owner's Manual



USB Ultra VSR Broadcast Specifications

Connector: USB type B port
Codec: Hi Resolution 24 bit 192 KHz
Sample Rate: selectable sample rates of 44.1 KHz, 48 KHz, 88.2KHz, 96KHz & 192 KHz
Maximum Analog Input Level: +12 dB
Digital recording and playback level for 0dB analog in : -12dBFS (full scale)
Maximum Analog Output Level: 18 dB
Input Impedance 10 KOhms
 Transformer Balanced
Output Impedance 300 Ohms
 Transformer Balanced
Maximum Input Level Nominal 0 dB
Maximum Output Level Nominal 0 dB
Input/Output Noise
 USB - System dependent
 ISO transformer - Environment sensitive
Frequency Response 20 - 20 KHz ± 0.5 dB
Power Consumption via USB Port typically 0.8W
Input Connectors
 CH1 / Left & CH2 / Right 2 x Female Amphenol XLR, wired Pin 2 + Hot, Pin 3 - Cold. Pin 1 screen/shield via ground Lift switch

Output Connectors

CH1 / Left & CH2 / Right 2 x Male Amphenol XLR, wired Pin 2 + Hot, Pin 3 - Cold. Pin 1 screen/shield via ground Lift switch

Construction

All-steel polyurethane coated chassis, fibreglass PCB, epoxy printing, USB Ultra chassis grounded via USB connection, slip-resistant rubber base. Package includes a premium quality USB-A to USB-B cable

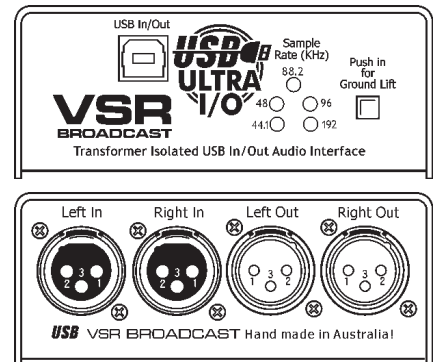
Recommended ASIO Driver (if required or desired) : ASIO4all download at: www.asio4all.org

System Requirements

Windows 10 - 11
 Mac OS X or later
 USB port



"Analog style recording headroom"



USB Ultra VSR Broadcast

Connections and Controls:

Type B USB input/output port; Audio Ground Lift switch, and Transformer Balanced XLR Inputs and Outputs. Software selectable Sample rate LED array indicates which sample rate the unit is using: **44.1 KHz, 48 KHz, 88.2 KHz, 96 KHz or 192 KHz**

The USB Ultra VSR Broadcast

The **USB Ultra VSR Broadcast** is a true Plug-and-Play Analog to Digital, Digital to Analog audio interface. It has Transformer Balanced dual XLR Input and Output connectors supplying Balanced audio input and output from a USB connection. Full transformer balanced output isolation eliminates earth loops / ground hum and other interaction noise and distortion.

No external power is required - all power for the **USB Ultra VSR Broadcast** is supplied by the USB bus.

No drivers are required for operation under Windows 10 or Mac OS X. The is instantly recognised as an **ARX USB Device**, requiring no special driver program installation.

Note: If an ASIO driver is required or desired we recommend: **ASIO4all** - download at: www.asio4all.org

Using your ARX USB Ultra VSR Broadcast

The **USB Ultra VSR Broadcast** is a Digital/Analog Audio Interface box. It is a self contained, stand alone stereo unit designed to interface stereo digital audio with professional balanced low impedance inputs and outputs, via the Industry Standard USB protocol.

The **USB Ultra VSR Broadcast** will convert Analog audio from a mixer into a digital signal for mixing on a computer, and convert digital computer audio into a Transformer Balanced analog signal.

Analog style headroom

Analog 0dB In = -12dB, FS Digital, providing Analog style headroom when recording in the digital domain. The signal then reverts to 0dB Analog Out, giving you the best of both worlds.

Plug and Play

We recommend a computer running Windows 10 or 11 or Mac OS X. Plug the **USB Ultra VSR Broadcast** into an unused USB port on the computer and it will be recognised as **ARX USB Device**, and ready to use.

Operating instructions

Firstly, make sure you have some audio recording/playback software installed on your computer.

Connect the USB connector on the

USB Ultra VSR Broadcast to the USB port on the computer.

Input Connections

Connect a balanced microphone lead from the Left and Right outputs of a mixer to the Left and Right 3 pin XLR Input on the **USB Ultra VSR Broadcast**.

Output Connections

Connect a balanced microphone lead from the Left and Right 3 pin XLR output connectors on the **USB Ultra VSR Broadcast** to a pair of input channels on the mixing console. Set the Input Gains on the channels, and Pan the channels Left or Right as required.

To **RECORD** with the **USB Ultra VSR Broadcast** open your audio software, ensure that **ARX USB Device** is selected as the default audio device, and follow the record instructions as you would normally. .

To **PLAY**, open your audio software, ensure that **ARX USB Device** is selected as the default audio device, open a music file and play.

IMPORTANT #1

Computers are very electrically noisy environments, and USB is a very popular Plug and Play protocol for lots of Windows devices.

For fastest and quietest audio operation you **must** plug the **USB Ultra VSR Broadcast** into its own USB port, and not a hub. Experiment on your compu-

ter to find the quietest USB port, and **keep it only** for the **USB Ultra VSR Broadcast** - don't have anything else on the same buss.

Otherwise you may get a hissing and clicking noise every time you move the mouse, touch the keyboard, or click on the screen.

IMPORTANT #2

- The sensitive audio circuitry in the **USB Ultra VSR Broadcast** is carefully shielded. Even so, do not place it within 2 metres/8 feet of a power amplifier. Their power supplies radiate large amounts of hum which could find its way into your audio.
- Keep mobile/cellular phones well away (at least 2 metres/8 feet) from the computer and the **USB Ultra VSR Broadcast**. The "Dut dut-dah-dut dut-dah-dut dut-dah-dut" sound of a mobile/cell phone connecting is not one that audiences care to hear!

And that's really all there is to it. Put simply, the **ARX USB Ultra VSR Broadcast** is the USB pro audio interface that Audio Professionals have been waiting for!

If this is the first USB audio device you have used, we strongly recommend you have a look at the extensive help and advice information on the comprehensive ARX website:

www.arx.com.au

Did you know...

As well as the **USB Ultra VSR Broadcast** and other USB devices, ARX manufacture a complete range of unique Audibox products:

The **ISO-Balancer** for balancing unbalanced signals, and also the **ISO De-Balancer**, which will de-balance a signal when required to connect to an unbalanced input.

The **ISO-Later** is a Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter, and the **ISO Splitter** is a transformer isolated 1 input to 2 outputs splitter for splitting 1 input 2 ways in applications where complete Galvanic isolation is required. Both available in Single Channel or Double Header format.

The **Pro-DI** is an ultra compact Active Direct box, with normal High Impedance input as well as a separate speaker level input for connection to instrument amplifiers.

Other features include -20dB Pad and Audio Ground Lift switches, plus Phantom or DC power options.

Available in Single Channel or Double Header format

The **Blue DI** is a new wireless audio interface that uses our BT Wireless Audio protocol.

What does it do?

With this useful device you can wire-

lessly use your Smartphone, Tablet, PC / Mac to effortlessly bring pre-recorded audio into professional audio systems. Power to drive the **Blue DI** is derived from either Phantom Power at the XLR connectors, or 9 to 15 VDC from an external power supply.

Electronically Balanced Outputs with 200 Ohms impedance let you drive long cable runs without signal loss.

Precision circuitry provides ultra low distortion (.01% nominal) with a Frequency response of 20Hz to 20 KHz ±1dB.

For the latest information on the complete **Audibox** range, visit our website: www.arx.com.au/worldwide/audibox.htm

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Manufactured in Australia

INTERNATIONAL LIMITED WARRANTY

ARX Systems (ARX) warrants to the first purchaser of this Audibox™ product that it is free from defects in materials and workmanship under normal use and service. ARX's sole obligation under this warranty shall be to provide, without charge, parts and labour necessary to remedy defects, if any, which appear within twelve (12) months from date of purchase; and to replace faulty parts only (if still available) for two years from purchase to the original purchaser. Original sales receipt will be required.

This is our sole warranty. It does not cover finish or appearance items, nor does it apply if the Audibox™ has been, in ARX's sole judgement:

- Subjected to misuse, abuse, negligence or accident;
- Repaired, worked on, or altered by persons not authorized by ARX;
- Connected, installed, adjusted or used otherwise than in accordance with the instructions supplied by ARX.

This warranty gives you and us specific legal rights, and you may also have other rights which can vary from country to country and state to state.

To obtain warranty service for your Audibox, please contact ARX or the dealer you purchased it from. If it is necessary to return the unit to the factory, they will give you the correct return address to send your unit to. Have your sales receipt showing date of purchase handy, and include a copy of it with your Audibox. Please pack the unit well - we are not responsible for any damage caused by unsuitable packing during shipment. Send the unit to us pre-paid, by a delivery service like FedEx, UPS, DHL or any other service that can track the shipment. We will return it to you freight paid.

If you have any questions, or any part of this is unclear, please contact ARX Systems as below:

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