

Maximum Resilience Broadcast Audio



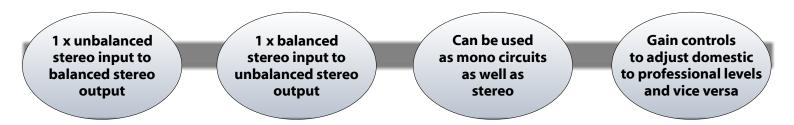
### Signature UBBU2

Stereo unbalanced to balanced & balanced to unbalanced converter





## FEATURES



The Signature UBBU2 is a broadcast specification stereo unbalanced to balanced, and balanced to unbalanced analogue audio interface that is equally suitable for professional & home studio use.

It is most commonly used for interconnecting domestic type recording/playback devices to broadcast/professional equipment.

Its primary job is to interface domestic type audio outputs (unbalanced) to the balanced audio inputs on broadcast and professional audio equipment while simultaneously connecting balanced outputs from professional equipment to the unbalanced inputs on domestic products.

As well as providing the balancing interface the UBBU2 also provides variable gain/ loss to allow the two connected pieces of equipment to match audio levels.

The two stereo circuits can both work as dual mono. Both the inputs are electronically isolated with RF filters to prevent extraneous signals, and fed via multi-turn preset gain controls on the rear panel to their outputs.

The rear panel gain controls are multi-turn presets to allow accurate gain setting and are also recessed to prevent accidental movement.

Power is provided by an internal switch mode power supply with a wide input range. There is also an input for external 12V DC power. The 12V DC input can be connected to the optional Signature PS1 external DC Master Power Station, for situations where a redundant power supply is desirable.

A bright front panel LED indicates that the unit is operational.





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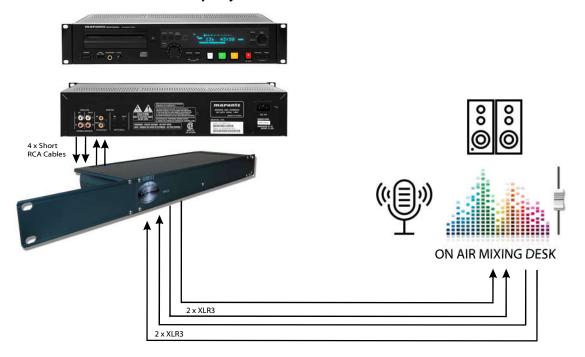
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## **EXAMPLE APPLICATION**

# CD RECORD/ PLAYBACK TO BROADCAST DESK

Interface a domestic CD player to a Broadcast desk



Many radio stations and studios incorporate mid level domestic audio equipment such as CD recorders as they provide reasonable value for money in comparison to professional versions. The output of such devices need to be correctly interfaced with a professional or broadcast audio desk.

In this example the UBBU2 will be located near the CD player as it is prudent to keep the unbalanced audio cables as short as practicable.

The UBBU2 is performing both balance conversion (in and out) and adding gain/loss to adjust the low domestic input & output level of the CD recorder to the higher levels associated with professional mixing desks.

The inputs & outputs of the UBBU2 on the mixer side, being balanced, are more suitable for longer cable runs and therefore the CD recorder/ UBBU2 equipment can be placed much further away from the mixer than the CD recorder alone could ever be.





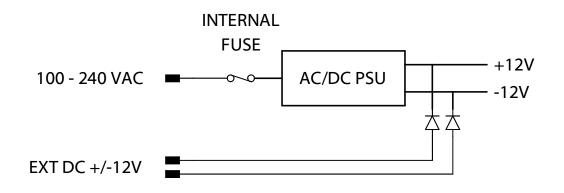
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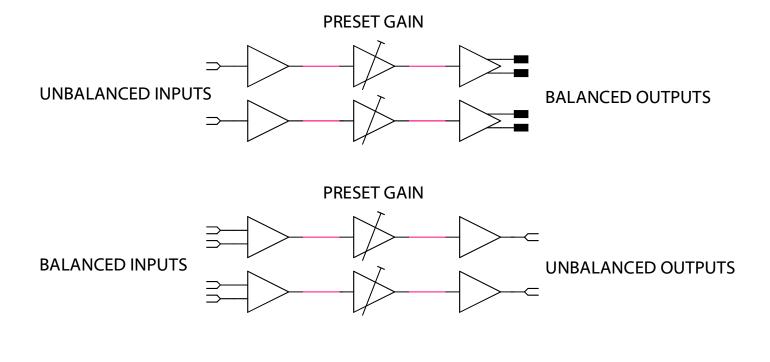


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AUDIO BLOCK DIAGRAM









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#### **SPECIFICATION**

#### AUDIO UNBALANCED TO BALANCED

Frequency Response @ Line Up <+/-0.1dB 40Hz to 20kHz Gain Range -15dB to +15dB on each output Line Up Level (with 0dB Gain) -12dBu on unbalanced input = 0dBu on balanced output

Maximum Input Level

+28dBu

Maximum Output Level +24dBu

Input Impedance >22k Ohm

**Output Impedance** <50 Ohms

Distortion 0.04% THD @ 100Hz, 1kHz & 0.01% @ 10kHz Reference to +0dBu output Noise -98dB @ line up unweighted RMS (22Hz to 22kHz) ref +8dBu output Crosstalk

<-90dBu 1kHz to 15kHz @ lineup

#### AUDIO BALANCED TO UNBALANCED

**Frequency Response @ Line Up** <+/-0.1dB 40Hz to 20kHz **Gain Range** -18dB to +10dB on each output Line Up Level (with 0dB Gain) 0dBu on balanced input = -12dBu on unbalanced output **Maximum Input Level** +28dBu **Maximum Output Level** +20dBu Input Impedance >50k Ohm **Output Impedance** <50 Ohms Noise -103dB @ line up unweighted RMS (22Hz to 22kHz) ref -4dBu output Crosstalk <-90dBu 1kHz to 15kHz @ lineup

#### POWER

Mains Input Filtered IEC, 100 to 240VAC 47 - 63Hz AC Consumption

1.3 Watts @ 230VAC **DC Input** 4 Pin Neutrik XLR plug +/- 12V

Internal Mains Fuse 20mm 1A Anti Surge

#### PHYSICAL

#### Size

338 x 123 x 44mm (LxDxH) no rack ears 482mm 19" (1RU) with rack ears

Weight 1.00kg

Mechanics

All aluminium construction, anodized and laser etched

**Shipping Carton** Rugged export quality cardboard carton 610 x 420 x 130mm LxDxH

### **Shipping Weight**

2.3kg

#### INCLUDED

Mains Lead 2 Metre Long Mains Lead (UK & Europe only)

Rack Bolts 4 off Pozi head M6

Feet

4 off rubber stick on feet Handbook

Full A4 handbook available to download and linked by QR code on device

#### **ENVIRONMENTAL**

**Operating Temperature** 0 to +50 °C (32° to 122°F)

Storage Temperature -20 to +70 °C (-4° to 158°F)

**Relative Humidity** 0 to 95% non-condensing

E & OE

Signature Series

**Maximum Resilience Broadcast Audio** 

Email: sales@glensound.com

# **Signature Series**

**Standard Features** 

### STANDARD FEATURES







Keeps Working