# 2 Input Reference Microphone Amplifier For Microphone Comparison Testing

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Two Input Reference Mic Amplifier
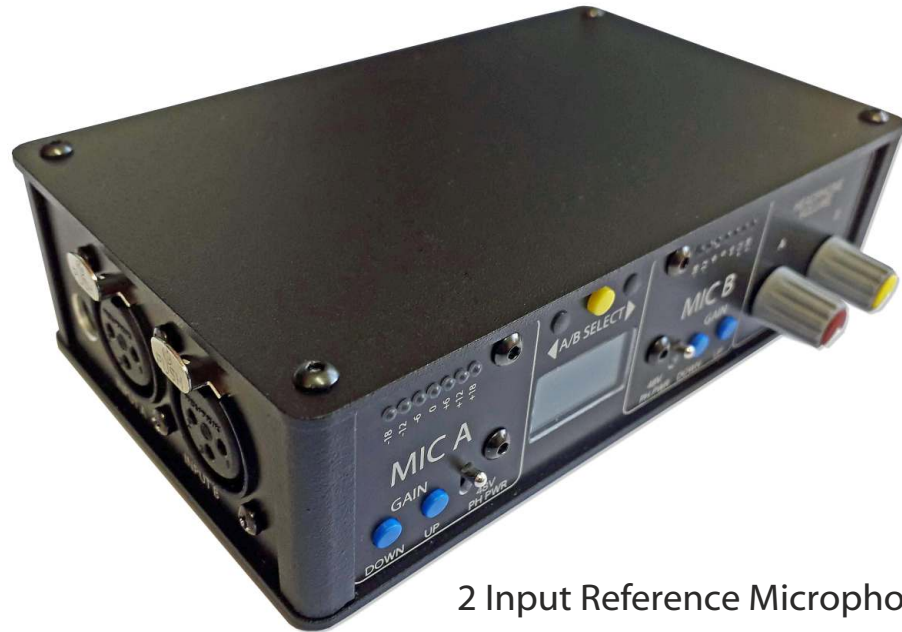
**GS-SW012**
2 Input Reference Microphone Amplifier

## Highlights

- Ideal For Broadcast, Theatre & Pro Audio
- 2 Low Noise Mic Pre-amplifiers
- No Unwanted Audio Artifacts
- 2 Headphone Monitoring Points
- Front Panel Level Meter for Each Mic Amp
- Quick Fade Between Mics When Switching

## Overview

GS-SW012 features two low noise reference microphones amplifiers designed for testing and comparing microphones.

There are two headphone monitoring amplifiers enabling two users to listen to the microphone inputs. A front panel switch selects which of the two inputs is being sent to the outputs. Rather than providing a coarse direct switch between the two inputs when the front panel select switch is operated a quick and clean cross fade is performed between the two microphone inputs.

The microphone inputs use the very latest digitally controlled microphone amplifiers and gain is accurately controlled in 1dB steps. The output of the microphone amplifiers is fed into a low noise and wide dynamic range analogue digital converter (ADC), before being fed into a DSP for cross fade and headphone level control.

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## GS-SW012
2 Input Reference Microphone Amplifier

- **Reference Microphone Amplifiers**
  The very best low noise & distortion microphone amplifiers chipsets from That Corporation are used in our very carefully designed pre-amp. The design of the pre-amp has been an ongoing love affair over several years with continuous development. This design provides crystal clear sound unaltered by unwanted characteristics.

- **Wide Dynamic Range ADC & DAC**
  Having a digital core there would be little point in utilising the best possible microphone amplifiers without backing this up with some of the very best large dynamic range analogue to digital (ADC) and digital to analogue converters (DAC).

- **Front Panel Display & PPMs**
  The backlit front panel display shows the gain of the two amplifiers which can be easily adjusted by using the simple up/ down gain controls. The two 7 LED PPMs provide instant easy to see visual indications of the amplifiers output levels.

- **Two Headphone Amplifiers**
  To allow two people to simultaneously monitor the output of the microphone amplifiers two separate headphone amplifiers are incorporated, each with their own output and volume control..

- **Balanced Output**
  A balanced analogue output is provided in case the microphone outputs need recording or monitoring on external equipment.
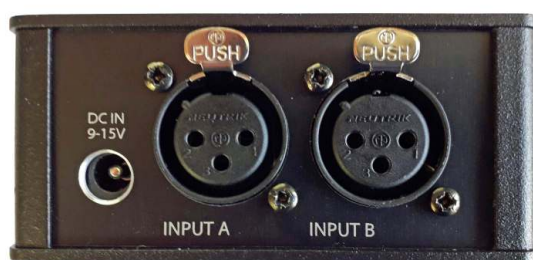
# GS-SW012
## Designed For Broadcast & Audio Professionals

## LINE OUTPUTS

**Maximum Output Level**
+18dB

**Output Impedance**
<50 Ohm

**Interchannel Crosstalk**
>101dB @ 0dB with1kHz tone

**Output Type**
Electronically balanced (can be wired Unbalanced)

## HEADPHONE OUTPUTS

**Maximum Output Level**
+18dB (into 600 Ohms)

**Headphone Impedance**
32 - 1000 Ohms

**Volume Pot Range**
-40 to +10dB (0dB at 12 O'clock)

**Circuit Type**
Auto-sensing output, provides correct volume pot position for both high and low impedance headphones.

## POWER

**Connector**
2.5mm Barrel Centre Positive

**Input Voltage**
+9 to +15V DC

**Consumption**
Total unit consumption <5 Watts

## INCLUDED ITEMS

**Power Supply**
External Switch Mode

**Handbook**
A5 paper handbook (download also available)

## MIC INPUTS

**Frequency Response**
-0.2dB 50Hz to 20kHz

**Input Gain Range**
+65 to -4dB
Note: 14dB Pad inserted when gain reaches +10

**Input Gain Resolution**
1dB steps

**Maximum Input Before Clipping**
+30dBu

**Input Impedance**
>2k4 Ohm

**Equivalent Input Noise**
125dB (22Hz - 22kHz Terminated 150 Ohms)

**Distortion (ref 0dBu output with 2dB gain)**
0.006 @ 100Hz
0.003% @ 1kHz
0.004% @ 10kHz

**Phantom Power**
+48 Volts

## PHYSICAL

**Size**
150 x 100 x 40mm (W x D x H) (inc controls)

**Weight**
0.35 kg

**Mechanics**
All aluminium construction, anodized and laser etched front & rear panels

**Shipping Carton**
Rugged export quality cardboard carton 610 x 420 x 120mm LxDxH

**Shipping Weight**
3kg

## ENVIROMENTAL

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

**Storage Temperature**
-20 to +70 °C (32 to 158 °F)

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

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E & OE