



GS-CU001B MKII
Commentator's Unit

Highlights

Used by
Broadcasters
Worldwide

Two
Commentators
+ Guest

Robust
and Reliable

Referee
Compressor/ Limiter

Individual &
Mixed Mic Outputs

3 TB Outputs
5 Monitor Inputs

Overview

The GS-CU001B MKII is the updated version of our very popular classic GS-CU001 commentators' box.

It has all the much loved features of the original with improved audio performance, larger gain ranges on mic inputs, +48V phantom power as standard, high quality mic gain and side tone potentiometers, solid state relay GPOs (General Purpose Outputs) for external red light or intercom switching and an even more robust internal architecture.

It is ideal for providing the commentary audio facilities for a wide range of outside broadcast events from very loud environments such as Football and Rugby, high dynamic range requirements such as Horse Racing to whisper quiet arenas such as Snooker. It is also commonly used for off-tube work both for sports and voice overs.

GS-CU001B MKII
Commentators Unit
Designed For Sport News & Events

Features



Three Mic/ Line Inputs

Each input is mic/ line switchable and 48V phantom power is available.

Individual & Mixed Outputs

Each input is available independently on the rear, along with a separate mixed output of all the mic/ line inputs.

Six Headphone Monitoring Sources

There are six (seven including side tone) independent sources. These are available on both headphone amps and can be mixed and split on the headphones (left/both/right) ear for each of the two main commentators.

Electronic / Transformer Balancing

There are options of electronic or transformer balancing on the inputs and outputs

Features "Config+" Push Buttons

The GlenSound Config+ system on the buttons allows custom configuration. The channel button can be on/off or cough, and the talk back buttons have multiple modes of operation.

Referee Compressor Limiter

Our widely acclaimed compressor limiter system provides clear distortion free audio even from the loudest of commentators.

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Commentator's Microphone Audio

Broadcast quality is what the GS-CU001B MKII is all about. Each of the microphone inputs feature a low noise and low distortion microphone amplifier with enough headroom to accommodate via the Referee compressor limiter system very high input levels. For very quiet events where the commentator never shouts then the compressor/ limiter can be disabled, and if you really want to use your own external compressor a rear panel switch allows the internal compressor to be disabled and the output level to be reduced by 20dB to provide a huge amount of headroom on the output.

Each mic input has a +10/ -20dB gain trim control for correctly setting the level. Importantly the centre point of this gain control varies automatically depending if phantom power is on or off (phantom power mics have a much higher output level than dynamic and therefore require less gain).

Talkback, Direct and Mix Outputs

On the rear of the unit are 7 off Nuetrik XLRs for the outputs. There are direct outputs of each of the 3 microphone inputs and a mixed output of all 3 of these mics.

Additionally the 2 main commentators can route their microphone outputs to 3 talkback outputs for off air communications with a producer, director, engineer, etc.

Record Output

A local record output provided on a 3.5mm jack socket is also provided on the rear panel. This is the mix output of the GS-CU001B MKII with the source 1 input mixed in. This can be used by commentators to produce their own local recording of the programme.

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PPM (Level Meter)

A bright front panel LED peak programme meter (PPM) is provided which makes setting up mic gains easy and also provides a visual confidence of correct operation for the commentators.

Versatile Headphone Circuits

Two internal headphone amplifiers are provided, each with its own volume control for all of the 5 external sources and each source has a routing switch to allow it appear in the left only, right only or both ears of the commentator's headphones. Each amplifier also has a front panel volume control & routing switch to enable monitoring of the other 2 mic inputs (i.e. Comm A can monitor Comm B & C inputs). Sidetone volume controls (the commentators own voice in their own ears) are provided on the rear of the unit, this is done to prevent the commentator mistaking this control as a microphone gain control.

Each of the 2 headphone amplifiers have 2 outputs for connecting 2 pairs of headphones on 6.35mm jack sockets.

The headphone amplifiers are designed to provide enough output level even into high impedance 'broadcast' headphones to allow the commentator to easily hear the sources.

Mains & External DC Power Inputs

For redundancy purposes the GS-CU001B MKII can be powered either from an internal mains power supply with a wide input voltage range making it suitable for use Worldwide and or an external DC supply.

A bright front panel LED indicates that the unit is turned on and working.

Transformer or Electronically Balanced Inputs & Outputs

The GS-CU001B MKII is available either with high quality a provenly robust electronically balanced audio inputs & outputs (V1) or for the connoisseur transformer balanced inputs & outputs are available (V3).

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Specification

AUDIO

Mic Input Gain Range

-20dB to +10dB

Dynamic Mic Line Up

60dB

Mic + Phantom Power Line Up

35dB

Line Input Line Up

0dBu

Input Impedance

Mic = 1k1

Phantom Power

+48V @ 6mA

Equivalent Input Noise

126dBu (22-22kHz RMS gain@max, 300 Ohms)

Maximum Input Level

Dynamic Mic: -10dB

Dynamic Mic: +10dB (with O/P set to -20dB)

Mic + 48V PH: +15dB

Mic + 48V PH: +35dB (with O/P set to -20dB)

Band Pass Filter

Selectable On/Off, when on -3dB points are 80Hz and 12.5kHz (12dB per Octave)

Frequency Response

-1dB 40Hz to 16kHz (Filter Off)

Maximum Output Level

+20dBu (limiter off)

+11dBu (limiter on)

Output Impedance

50 Ohms

THD + NOISE

<0.027% @ 10kHz ref +8dBu

Headphone Source Input Impedance

>15k

Maximum Headphone Input

+26dBu

Headphone Volume Pot Range

+10dB to Off (+10dB to -30dB factory fit option)

Headphone Impedance

100 - 1000 Ohms

Headphone Source Input Impedance

>15k

Maximum Headphone Output

+19dBu into 600 Ohms

Headphone Frequency Response

<= -0.5dB 20Hz to 20kHz

Headphone Distortion

<0.016% @ 10kHz ref +8dBu

POWER

External Mains PSU

Filtered IEC, 100 to 240VAC

47 - 63Hz

AC Consumption

<7 Watts

DC Input

4 Pin XLR Plug +/-12V,

Power On LED

Bright Blue

PHYSICAL

Size

214 x 158 x 66mm (WxDxH)

Weight

1.16kg

Mechanics

All aluminium construction, anodized and laser etched, powder coated sides

Shipping Carton

Rugged export quality cardboard carton
 610 x 420 x 130mm LxDxH

Shipping Weight

2.6kg