



**GS-CU001E MKII**  
**Commentator's Unit**

**Highlights**

- Used by Broadcasters Worldwide
- Two Commentators + Guest
- Inter-commentators talkback
- Referee Compressor/ Limiter
- Individual & Mixed Mic Outputs + Passive
- 3 TB Outputs  
5 + 4 Monitor Inputs

**Overview**

The GS-CU001E MKII is the updated version of our very popular classic GS-CU001E 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-CU001E MKII Commentators Unit Designed For Sport News & Events

### Features



GS-CU001E MKII

#### 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.

#### Seven Headphone Monitoring Pots

There are seven headphone volume controls available to each commentator and these can be mixed and split onto the headphones (left/both/right). An eighth smaller headphone volume control is provided for each commentators for their sidetone.

#### Five + Four External Audio Inputs

Both commentators have one common audio input to their headphones. Each commentators then has four independent audio inputs, although one set of these sources can be shared if required.

#### 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.

#### Inter-Commentators Talkback

An off air talkback channel is provided between the two commentators.

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Broadcast quality is what the GS-CU001E 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, Passive and Mix Outputs

On the rear of the unit are 9 off Nuetrak 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. The GS-CU001E provides passive outputs of the 2 main commentators' mics (these are just in parallel with the mic inputs).

#### 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 5 external sources and each source has a routing switch to allow it to appear in the left only, right only or both ears of the commentator's headphones.

In total there are 9 external source inputs. 1 is common between both commentators and the other 8 are shared with 4 for each commentator, although by using rear panel switches the 4 sources for the A commentator's inputs can be individually routed to replace the C commentator's inputs.

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) is provided by a small front panel knob for each commentator.

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-CU001E MKII is available either with high quality and 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**

1k5

**Phantom Power**

+48V @ 6mA

**Equivalent Input Noise**

122dBu (22-22kHz RMS terminated 300 Ohms)

**Maximum Input Level**

Dynamic Mic: -20dB

Mic + 48V PH: +5dB

**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)

+9dBu (limiter on)

**Output Impedance**

50 Ohms

**THD + NOISE**

<0.027% @ 10kHz ref +8dBu

**Headphone Source Input Impedance**

>18k

**Maximum Headphone Input**

+26dBu

**Headphone Volume Pot Range**

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

**Headphone Impedance**

200 - 2000 Ohms

**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 (+/-10%)

47 - 63Hz

**AC Consumption**

<7 Watts

**DC Input**

4 Pin XLR Plug +12V,

**Power On LED**

Bright Blue

### INCLUDED ITEMS

**Handbook**

Physical A4 (download also available)

**Mains Cable**

UK & EU Only, 2 metre mains plug to IEC

### PHYSICAL

**Size**

279 x 286 x 124mm (WxDxH)

**Weight**

V1 = 2.42Kg V3 = 3.48Kg

**Mechanics**

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

**Shipping Carton**

Rugged export quality cardboard carton  
 610 x 420 x 170mm LxDxH

**Shipping Weight**

V1 = 4.2Kg V3 = 5.2Kg

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