SONIFEX

Manufacturers of Audio Products for AV,
Installed Sound, Broadcast Radio & Broadcast TV

AVN-CU1

Dante® Commentary Unit for 1 Commentator

avn · ÷ Dante® · EMBER+

AVN-CU1 Single Dante Commentary Unit

The **AVN-CU1** adds to the Sonifex range of Dante commentary units with a simple to use, single microphone/headphone combination with a full feature set and a low price point.

The headphone amplifier has five inputs: three talkback channels, programme and sidetone, each with an individual potentiometer for level control. Audio output routing is controlled by illuminated pushbuttons. There's an OLED display for setup and configuration, a high impact LED bar graph for metering in daylight, individual headphone routing per audio source and downlighting to indicate status.

It has redundant Primary and Secondary Dante network ports on EtherCON RJ45s as well as two SFP transceiver ports and is powered by dual PoE or a 12V DC input.

Top Control Panel

- Potentiometers control mix levels of the five sources into the user's headphones: Sidetone, Programme, Talkback A, B and C.
- Each potentiometer (except for sidetone) is accompanied by an illuminated push button which routes the mic/line input to the relevant Dante™ output (On Air, T/B A, T/B B & T/B C). The GPIO button can be used to call for technical help, identify users, or for your own remote function. Push buttons have removable caps, allowing you to change the text for your specific application.

- Each potentiometer is accompanied by a 3-position toggle switch to route audio to the left, right or both channels of the headphone output.
- A scribble pad spans all buttons to allow quick and easy source or destination labelling.
- An OLED display for configuration and status indication (Clock, Link, PoE and DC). It also indicates the active metering scale of the bar graph meter (dBFS/VU).
- A rotary encoder is used to enter and navigate the menu and to make adjustments to settings.

- A curved LED bar graph meter provides a high impact audio output level indicator (User selectable VU or dBFS scale).
- RGB LED downlighting under the base of the unit indicates status (e.g. ON AIR), or can simply provide decorative lighting.

Network Audio and Control

- Set up and control is via an internal web server. User selectable options include: Mic preamp gain, pushbutton mode/colour and metering scale.
- The AoIP audio connection is made using either the RJ45 sockets or their associated SFP interfaces.
- Ember+ is used as the communication protocol for data exchange between units.

Dante

Dante Controller is used to configure the four audio sources to be mixed to the headphone output:
- PGM - The main mono programme feed.
- T/B A/B/C - Three mono talkback sources.

The processed mic/line input is transmitted on four Dante channels:
- ON AIR - Mono audio is routed when the ON AIR button is active.
- TALKBACK - Mono audio is routed to each of the three talkback destinations when the corresponding T/B button is illuminated. Activating any talkback output temporarily deactivates the on air output, which returns once the talkback is deactivated.

Rear Panel

- Two EtherCON RJ45s provide network connectivity and PoE power with redundancy.
- Two SFP ports provide alternative redundant network connectivity.
- A 4 pin XLR provides 12V DC power input.

- A 15 pin D-Type provides GPIO connectivity.
- Recessed reset button and an earthing terminal.
- One stereo headphone output with a dual ¼"/3.5mm socket, suitable for operation by one commentator.
- A 3 pin XLR socket providing a mic/line input with a wide, adjustable gain range and compressor/limiter.
- Phantom power indication is provided by a 3mm red LED adjacent to the rear panel XLR socket.
- A 3 pin XLR plug provides a line level direct output of the mic/line input which is active when the ON AIR button is active.
- A 3mm red LED indicates that the unit is powered.

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