



B-D2020
Dante™ enabled Presenter Beltpack
Firmware version 1.0



by
CTP Systems



Product warranty

This unit is guaranteed for a period of one year from dispatch of the goods. This guarantee is a return to base warranty. In the unlikely event of a fault the goods should be returned to CTP Systems in the UK or your local dealer.

This equipment is CE marked and conforms to the following directives:

Emissions: EN55032: 2015

Immunity: EN55035: 2017

WEEE

CTP Systems are registered for Business to Business sales of WEEE in the UK. Our registration number is WEE/DF0509VR.

RoHS

The product conforms to the RoHS Directive 2002/95/EC for restriction of the use of hazardous substances in electrical and electronic equipment.

This unit was designed and manufactured in the UK by CTP Systems Limited, Unit 4, Clinton Business Centre, Lodge Road, Staplehurst, Kent TN12 0QF.

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Dante is a trademark of Audinate Pty Ltd.

B-D2020 includes license from Audinate Pty Ltd under U.S. patent number(s) 7747725, 8005939, 7978696, 8171152 and other patents issues see www.audinate.com/patents.

This manual assumes a degree of familiarity with Dante controller. If you are not familiar please see this document:

<https://dev.audinate.com/GA/dante-controller/userguide/pdf/latest/AUD-MAN-DanteController-4.3.x-v1.21.pdf>



Overview

The B-D2020 is a compact, lightweight network presenter beltpack unit designed to fulfill all audio requirements for situations such as pitchside reporting or presenting.

The unit generates a programme sound microphone output with noiseless diversion of that output to two discreet talkback outputs plus a combined feed.

There are two volume controls, each volume control may be fed with stereo or mono audio.

Various talkback key functions, microphone gain, limiter, phantom power and sidetone are all conveniently adjusted using the OLED display. The display also shows on-air or talk status and meters the microphone audio for confidence.

The unit may be operated using Power over Ethernet (so just one cable) or via a 12 volt DC adaptor.

Microphone levels may be adjusted in 1dB steps from 0 to +66dB with switchable 48 volt phantom power.

The B-D2020 will also operate in Dante AES67 mode.

Power

The B-D2020 is ideally operated PoE but if a suitable PoE router is not available it may be connected using a network cable and a separate 12 volt DC supply.

Network Connections

The green LED on the rear will flicker on successful network connection. A standard RJ45 cable or a locking Ethercon may be used.

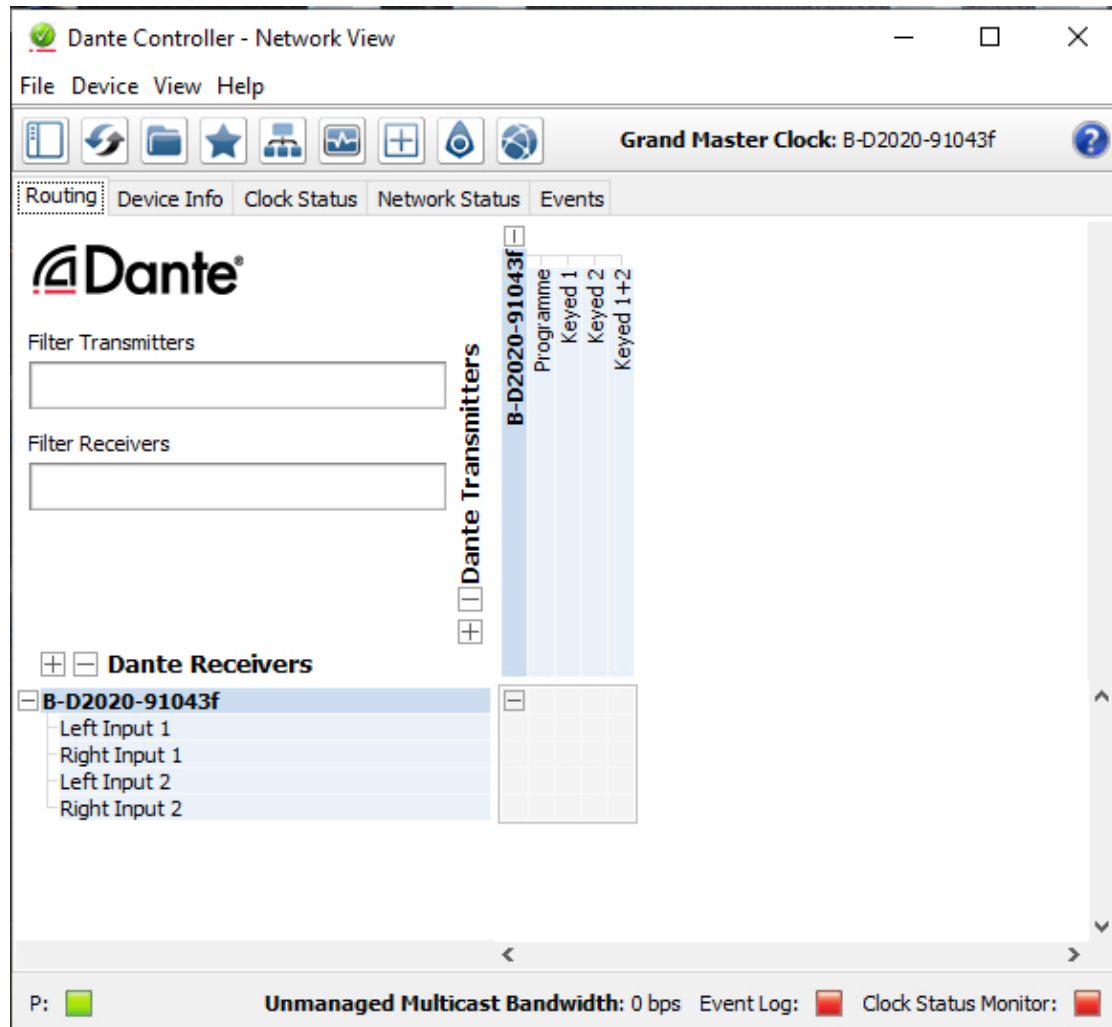
Audio Connections

The microphone input is a 3 pin XLR and the headphone/earpiece jack is a standard 6.35 mm stereo jack. All other 'audio' connections are over the network.



Using with Dante Controller

Below is a picture of how the B-D2020 will appear in Dante Controller.



Dante Transmitters

These are the B-D2020 outputs. Programme sound will be active at all times unless a talkback key is pressed. When button 1 is pressed the programme microphone audio will be diverted to 'Keyed 1'. When button 2 is pressed the microphone will be diverted to 'Keyed 2'. When either key1 or key2 (or both) are pressed then the audio will also be available on 'Keyed 1 + 2'.

Dante Receivers

These are the Headphone inputs, two stereo feeds are available. Send audio to both left and right for mono feeds.



Audio Metering

The meter has a slightly wider band to show the position of -18dBFS. Each of the pips are 4dB apart so the meter will show from -38dBFS to -6dBFS accurately. The meter is active at all times except when setting up the unit.

Display

The display normally shows the text On-Air, microphone settings and metering. When a talkback button is pressed the unit will display whichever key is pressed (or both). If a mute key has been programmed then the display will flash 'Mic Muted'.

Setting up the B-D2020

To enter setup mode press the Setup button for 3 seconds. The display will change to show the current microphone amplifier gain. Press the talk keys (+ or -) to get to the required setting. Press the button once for adjusting in 1dB steps or press and hold the required button and the display will scroll faster through the gain settings.

When adjusted as required press the setup button again, the display will now show phantom power on or off. Press the + or – keys to adjust.

Press again to adjust the microphone limit level range 0dBFS to -20dBFS.

Press again to set key1 function. These are:

- 1 - Momentary action. Only diverts audio while the button is pressed.
- 2- Latching action. When pressed audio will be diverted until the button is pressed again. The switch will illuminate red when active.
- 3- Disabled. The key does not operate.
- 4- Mute momentary. The key can be used as a 'cough key'. The on-air microphone is switched off but audio is not routed anywhere. 'Mic Muted' will flash on the display when pressed.
- 5- MuteLatch. As above but with an off off latching action. Again, 'Mic Muted' will flash on the display while the button is latched on and the button will illuminate.

Press again to set key2 function, details as key1.



Press again to set a sidetone level in the headphones range. Nominal level 0 to -39dB then Off.

Press again and the display will show 'Exit < or >'. Press either talkback key to exit setup mode or press the setup button again to go back through the menus.

At any time during programming the setup button may be pressed and held for 3 seconds to exit setup mode and return to 'On-Air' mode.

If no buttons are pressed for one minute when in setup the B-D2020 will revert to normal operation.

Dimensions

115mm tall, 83mm wide, 45mm deep.

Weight 0.34 kilos.