

## Dante® Network Intercom



**BEATRICE B1 & B2**  
Ultra Compact Dante®/ AES67 Beltpack Intercoms

## Highlights

1 & 2 Channel  
Beltpacks

AES67 Compliant

High Output  
Headphone Amp

48kHz Crystal  
Clear Digital Audio

PoE Powered

Low Noise  
Microphone Amp

## Overview

The GlenSound BEATRICE B1 & B2 are ultra compact, robust, portable 1 & 2 channel beltpack intercoms designed for broadcast, theatre and professional audio applications.

They are part of our Beatrice intercom system that utilises the reliable and proven Dante® network audio transmission protocol to allow real time distribution of uncompressed audio across standard networks. As such, the BEATRICE B1 & B2 are also fully compatible with other manufacturers' equipment using the Dante® protocol. Both units are also AES67 compliant.

These small beltpacks were designed to be very easy to use for the operator and simple to setup for the technician. They include all the basic functionality required for small intercom systems and none of the overly complex installation requirements normally associated with large systems.

## Features

- B1 - One Channel**

One single user connected to the B1 unit can listen to one audio feed from the network and send one audio channel out onto the network. Depending upon how the Dante® network has been routed the incoming audio circuit and outgoing circuit can be different locations and the outgoing circuit can be routed to multiple locations.



- B2 - Two Channels**

One single user connected to the B2 unit can listen to two audio feeds from the network and send two audio channels out onto the network. Depending upon how the Dante® network has been routed the incoming audio circuits and outgoing circuits can be different locations and the outgoing circuits can be routed to multiple locations.



- Mic Amp with Compressor & Phantom Power**

A good quality, clear sounding microphone amplifier, designed for communication purposes, is fitted, which also has the benefit of a compressor/ limiter circuit to help keep levels and intelligibility consistent even when the operator gets overly excited. 12 Volt Phantom power is also available and can be turned on/ off as required.
- High Output Headphone Amp Suitable For Headphones & Earpieces**

One of our unique headphone amplifiers is fitted to the Beatrice beltpack units. These allow either low or high impedance headphones to be used and automatically adjust the output level to match the impedance of headphones in use. The headphone amplifier is stereo and sources can be panned to left or right ears as desired. The unique headphone amplifier can also drive mono earpieces from its stereo output without any performance issues.



## BEATRICE B1 & B2

### Ultra Compact Dante®/ AES67 Beltpack Intercoms

#### Features



- Volume, Panning & Incoming Levels**  
 The B1 front panel has one volume level control for its one incoming circuit and the B2 has two volume level controls, one for each of the two incoming audio circuits. These volume controls also double up as pan controls allowing the associated incoming source to be routed to one or other of the operator's ears.

When in setup mode these level controls can also be used to provide preset levels of sidetone and the called alert chime.

- Single Cable For Power & Audio**  
 One single standard RJ45 network cable provides both power (PoE) and bi-directional multichannel digital audio (Dante®).

The RJ45 socket on the Beatrice beltpacks are a rugged locking Neutrik etherCON XLR shell connector capable of connecting to both industrial quality etherCON cables and standard network RJ45 patch cables.



- 5 or 4 Pin XLR Headset Connectors**  
 As standard the Beatrice B1 & B2 units are fitted with a single 5 pin XLR socket for connecting to users' headsets. This connector carries both microphone and headphone circuits and is wired in an industry standard format. Optionally a 4 pin XLR plug can be factory fitted wired to the industry's alternate standard format.

- Call Function**  
 A simple call function is inbuilt allowing the operator of one unit to call/alert other users that they want to communicate with. To call another user the operator double taps the speak key of the channel they want to call, this then flashes a bright yellow call LED on the other users keypanel (if fitted), which continues to flash until the call is answered. As well as flashing a LED at the receiving end of the call, an audible 'beep' can be set to alert the user that an incoming call has been placed to them.

## BEATRICE B1 & B2 Ultra Compact Dante®/ AES67 Beltpack Intercoms

### Features

- #### Lever Keys Talkback Switches

When an operator has the Beatrice beltpacks hooked on their belt, it is often impractical for them to try to look at the unit's front panel to see if a talkback key is on or off. Therefore the B1 and B2 units feature tactile lever keys as the talkback switches. These provide instant indication of a channel's talkback state just by feel of the position of the switch.

The lever keys switches that are fitted have two modes of operation, pushed in one direction they are momentary and pushed in the opposite direction they latch.



- #### Robust Beltclip

Both units are fitted with a very long life extremely robust beltclip. We've been using these beltclips on our products for many years and have fitted tens of thousands - so far we are unaware of any breaking in normal use.



- #### Ultra Compact & Built To Last

Our design engineers worked hard to utilise the very latest technology to fit the high quality digital electronics in as small a space as possible, making the Beatrice B1 & B2 units the smallest network audio beltpacks on the market today. Although compact, the units are still manufactured in house to our high standards and housed in robust lightweight aluminium enclosures to make sure that they keep working.



Intercom & Talkback



## B1 & B2 Specification

### NETWORK

#### Physical Interface

1 off RJ45 Neutrik Ethercon

#### Audio Sample Frequency

48kS/s

#### Transfer Rate

100 Mbps

#### Dante® Chipset

Ultimo UXT-01-004

Note: Audiante recommend no more than 10 Ultimo chipsets on one network **UNLESS** another Dante® device such as the Brooklyn Module (found in 8 channel Beatrice/ Dark units), is on the same network

#### AES67 Compliant

The Audinate Ultimo chipset is AES67 compliant

### AUDIO

#### Mic Gain Range

60 to 20dB

#### Phantom Power

12 Volts

#### Equivalent Input Noise

-110dB (20-20kHz RMS A Weighted 300 Ohms)

#### Headphone Impedance

32 - 1000 Ohms

#### Max Headphone Output Level

+10dB into 600 Ohms

#### Headset Connector

5 pin XLR Socket fitted as standard  
4 pin XLR Plug (Order code B1 4pin or B2 4 pin)

#### Band Pass Filter

50Hz to 15kHz

### POWER

#### Power over Ethernet (PoE)

48V

#### Consumption

3 Watts

### Call Circuit

#### Inband Calling Frequency

20kHz

#### Amplitude

-20dBFs

#### Duration Of Signal

2 seconds

#### Compatibility

All Glensound Beatrice units & Studio Technologies

### INCLUDED ITEMS

#### Handbook

By download

#### RJ45 Network Cable

2 metre Cat5 RJ45plug /RJ45plug cable

### PHYSICAL

#### Mechanics

All aluminium with laser etched panels and light textured black powder coated sides

#### Beltclip

Long life spring loaded plastic

#### Size (Body excluding Beltclip)

65 x 132 x 37mm (w x l x h)

#### Weight

248g / 8.8oz

### ENVIRONMENTAL

#### Operating Temperature

0 to +50 °C (32 to 122°F)

#### Storage Temperature

-20 to +70 °C (-4° to 158°F)

#### Relative Humidity

0 to 95% non-condensing

### SHIPPING SPECIFICATIONS

**Weight:** 1.75Kg

**Shipping Size:** 310x260x90mm

#### Shipping Carton

Rugged export quality cardboard

The name **Beatrice** was chosen for our intercom range as she was the love of Dante Alighieri:

*'Dante had fallen in love with another, Beatrice Portinari (known as Bice), whom he first met when he was only nine.'* Source Wikipedia.

We hope that you will also fall in love with Beatrice.

E & OE