Beatrice PM4
Dante/AES67 Paging Mic

Highlights

- **4 channel paging mic**
- **12" gooseneck mic included**
- **Digital Frequency Shifter**
- **Selectable chime**
- **Works as an IFB**

Overview

The Glensound BEATRICE PM4 is a 4 channel desktop Dante paging mic. It is simple to use with key features hidden to prevent tampering.

A digital frequency shifter prevents unwanted howl when the mic might pick up nearby audio from a speaker, and a selectable announcement chime is available.

It is a very small footprint allowing use where desk space is at a premium.

The PM4 connects to the network via a single network cable which provides the audio link and power via PoE.

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Talk Buttons

The Beatrice PM4 can output audio to 4 different network locations using the top panel push buttons. These buttons are low profile with blue LED back lighting to indicate an active channel. There are scribble strips under each button for labelling.

These are the selectable button operation modes:

- **Latching**
  Pressing a button latches it on or off

- **Momentary (Push To Talk)**
  Press and hold a button to talk. When it is released the button delatches.

- **Intelligent (momentary and latching)**
  A quick press will latch the button. A press and hold will activate then unlatch when released

- **Multiple Output Announcements**
  A quick press of multiple channels and hold the last selected. This will activate the channels then all channels will unlatch when the button is released.

Mic Gain Adjust

On the underside of the unit there is the microphone gain adjustment. This is adjusted via small recessed screw. This can then be simply set by an engineer and reduces the chance of the operator making any unwanted changes. A level indicator LED will show when the input is at line level.

There is a switch to select between dynamic and condenser mics with 48V Phantom power.

A 12" gooseneck mic is included.

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Configurable Options

The PM4 has several advanced functions that can be configured as required.

- **Announcement Chime**
  A short audible chime can be selected to play before announcements to alert the listeners that an announcement is coming. The channel LED light will flash while the chime is playing and go solid blue to indicate that the mic is live and the chime has finished.

- **Frequency Shifter**
  The PM4 features a sophisticated frequency shifter that prevents the undesirable howl and whine associated with feedback.

- **Low Cut Filter**
  This filter removes the lower frequencies from the input. Typically bangs and knocks on the desk (or PM4 itself) produce low frequencies which are picked up by the mic, so having this filter on reduces handling and undesirable noise from entering the PA system.

IFB Option

The PM4 can be used inline of an audio signal, like background music for example. An audio signal routed to input 1 of the PM4 will be looped directly to the channel 1 output. In this way background music could be sent to a P.A. from output 1. Pressing the talkback button 1 will interrupt the incoming audio signal allowing the PM4 operator to make a paging announcement. When they release talk button 1, the output will revert to the incoming audio input.

This function is the same from channels 1-4.

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GPIO
A 9 pin d-type connector on the rear panel sends a contact closure output when each of the 4 talkback buttons are pressed, allowing signalling and control to other systems.

Network Connection & Power
Power is supplied via PoE on the network connection using a Neutrik EtherCON locking RJ45 connector. This single connection provides the audio connection and power. PoE is received from the network switch or via a midspan PoE injector.
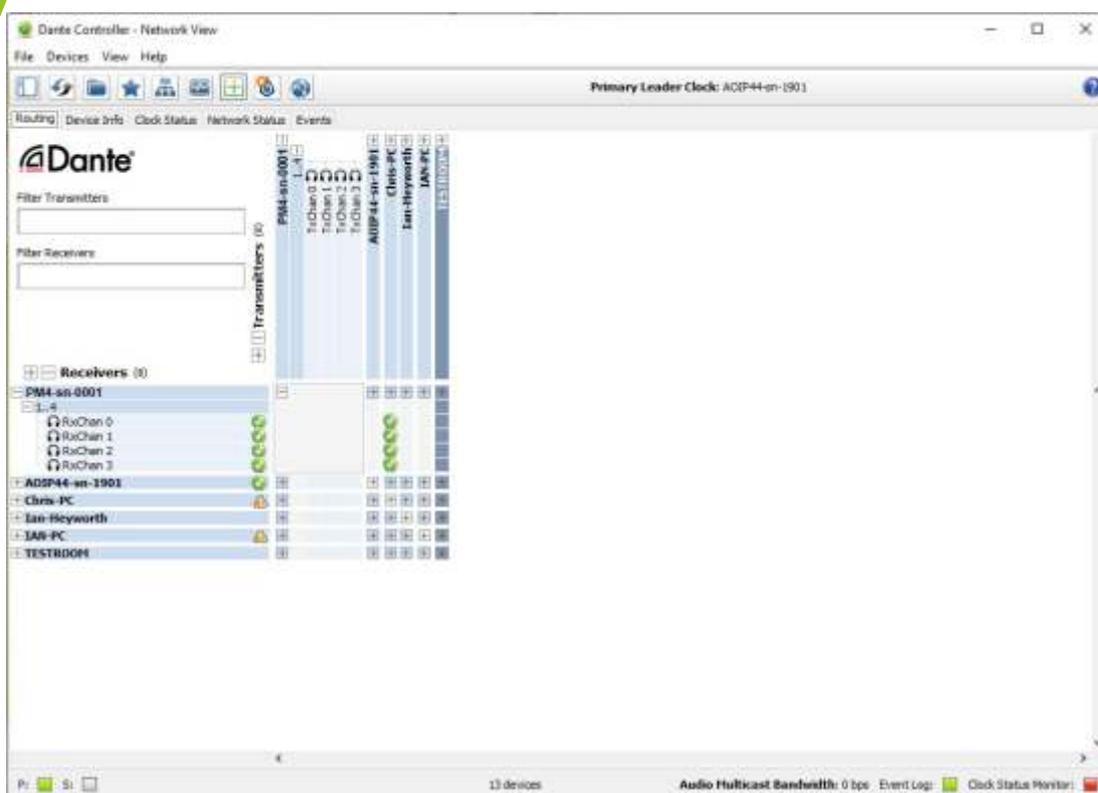
Physical
The PM4 is 101 x 122 x 62mm (WXDXH)
Four solid rubber feet ensure the Pm4 is solid on the counter and will not move.

Dante Controller

Audio routing on the network is controlled by Dante Controller. This is a free download from www.audinate.com.

The PM4 will have been named by Glensound to allow discovery by Dante Controller.

The format used for the PM4 name is:
'PM4-sn-XXXX. This is the serial number which will correspond with the number on the rear of the unit.

Select the output routing on Dante controller to the required destination on other Dante/AES67 devices on the network. It is good practice to rename the channels to a more meaning label. This can be achieved by selecting **Device Info** on the tabs, double click the PM4, then rename the transmit channels.

Specification

POWER

PoE

Powered by the PoE network port
Complies to: IEEE 802.3af-2003
Classification Class 0

Consumption

<3 Watts

Power On LED

Bright Blue

NETWORK

Dante

Yes using the Ultimo module

AES67 Compliant

Yes

SMPTE ST-2110-30 Compliant

No

Number Of Network Interfaces

1

Copper Ethernet

1 x Neutrik EtherCON connectors

Fibre Ethernet

No

Audio Sampling Frequency

48kHz

Transfer Rate

100 Mbps

Resolution

24 bit

PHYSICAL

Size

101 x 122 x 62mm (WxDxH)

Weight

340g

Mechanics

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

AUDIO

Mic Input Gain Range

Dynamic 48 - 68dB
Phantom 38- 58dB

Phantom Power

48v

Equivalent Input Noise

-125dBu

Frequency Response

100Hz to 20kHz. +/- 1dB
300Hz to 20kHz. +/- 1dB LCF On

ENVIRONMENTAL

Operating Temperature

0 to +50 °C (32 to 122 °F)

Storage Temperature

-20 to +70 °C (-4° to 158 °F)

Relative Humidty

0 to 95% non-condensing

INCLUDED ITEMS

Handbook

Available by download

RJ45 Network Cable

2 metre Cat5 Rj45 plug /Rj45 plug cable

Microphone

12" Goose Neck Microphone
Note: may differ from the one shown in the images

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