



BEATRICE LH4

A Dante®/ AES67 Illumination Unit For Signalling And Indication

Highlights

Bright, Multi Coloured
LED Indicator

AES67 & SMPTE 2110
Compliant

Indication on
Signal Present

Indication On A
20kHz 'Call' Signal

PoE Powered

4 Inputs From
Dante/AES67 Network

Overview

This device uses Audinate's Ultimo Chipset, which can receive 4 incoming audio channels, each at 48kHz. However, this chipset can only receive these 4 audio channels from a maximum of 2 network locations (2 different devices). This is common with any manufacturer that uses this chipset.

The Glensound Beatrice LH4 provides audio signal present and call indication via a bright LED 'lighthouse' tower, providing 360 degrees of visual signalling. There is an onboard configuration screen and it is PoE powered.

The Beatrice LH4 is ideal for providing cue/ on air indication to presenters and hosts using the standard Dante/AES67 network. The bright lighthouse LED tower can be set to illuminate on receipt of either an audio signal or a Beatrice 20kHz call signal from any of its 4 network audio inputs. Different colours/ brightness can be set by the user to be associated with each channel.

To make it easy to send audible instructions to the users an internal speaker and balanced XLR audio output are also included that through the configuration menu can pass audio from the Dante/AES67 network if required.



BEATRICE LightHouse

A Dante®/ AES67 Illumination Unit
For Signalling And Indication

Features

- **Trigger On Audio (Solid Colour)**
Each of the 4 channels can be set individually to turn the Lighthouse LEDs on when they receive an audio signal. The length of time that the Lighthouse LEDs stay illuminated after the audio signal drops below its triggering threshold is user configurable.
- **Trigger On Call (Flash)**
Each of the 4 channels can be set individually to flash the Lighthouse LEDs when they receive a Beatrice Call signal. The length of time that the Lighthouse LEDs continue to flash after the call signal has been received is user configurable.
- **Choice of Colours**
Each channel can have its own Lighthouse LED illumination colour set by the user from any of the following colours: Red, Green, Blue, Yellow, Purple or Orange.
- **Two Brightness Levels**
To allow the LH4 to work well in your environment there are two preset brightness levels allowing it to be seen in natural daylight and in a studio setting.
- **Four Incoming Channels**
The LH4 can receive incoming audio/ call circuits on up to 4 Dante/ AES67 channels. Each channel can have its own colour set to illuminate the lighthouse when it receives a trigger (be that audio or a call).

PLEASE NOTE: *The LH4 uses the Ultimo chipset from Audinate and it can receive 4 audio channels but these can only be from a maximum of two network locations.*

- **Tally/ Confidence Dante Audio Output Channel**
So that the network location that has originated the call/sent audio to the LH4 can be confident that the LH4 has responded to its command and has turned on the lighthouse LEDs, a network audio output is provided. This output will send a repeating on/off tone when the LEDs are flashing for a call and a steady tone when the LEDs are illuminated for audio presence. The originator then only needs to monitor this outgoing network circuit to know that the LH4 has correctly responded.



BEATRICE Lighthouse

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Features

- Front Panel Display**
 A small backlight display is incorporated on the front panel to allow the user to access the settings menu. The backlight is only illuminated on this display when in setup mode.
- PoE Powered**
 For ease of installation just one network cable provides both power (PoE) and audio to the LH4.
- Internal Loudspeaker**
 A small loudspeaker is built into the LH4. The 4 incoming audio circuits are mixed together and sent to this loudspeaker with the front panel rotary encoder acting as a volume control. This small loudspeaker can be very useful for sending a verbal instruction to the user of the device. However to prevent accidental operation the internal loudspeaker can also be disabled in the setup menu.
- Balanced Audio Output**
 The 4 incoming audio circuits are mixed together and sent to a balanced analogue output on standard 3 pin XLRs on the rear of the unit. This means that the LH4 could be used as a Dante/ AES67 to analogue converter/ mixer, but this output is more likely be used for sending monitoring audio to the users.
- Network Audio Output**
 In addition to the tally/confidence network output, the audio that is being sent to the balanced analogue output is also duplicated and sent as a network output.
- DC Loop Output**
 This DC loop output (GPO) is fed from an internal open collector. It becomes active when a call is received on any of the 4 channels.

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Specifications

NETWORK/ Dante®

Physical Interface

Single RJ45

Audio Sample Frequency

48k

Transfer Rate

100 Mbps

Dante® Chipset

Ultimo

Note: Can only receive 2 audio flows (audio from two network locations)

AES67 Compliant

AES67 compliant

SMPTÉ 2110 Compliant

Via use of Dante Domain Manager

Loudspeaker

Type

General Purpose Oval 35.5 x 20.5mm

Performance

576Hz to 2.5kHz, 1W, SPL = 98dB 1W/0.1m

Amplifier

1 Watt, 0.02% THD+N

PHYSICAL

Mechanics

Aluminium with laser etched panels and light textured black powder coated lid & base. Turned polycarbonate lighthouse lightly etched.

Size

98 x 102 x 92mm (3.9 x 4.0 x 3.6") (W x D x H)

Weight

0.255Kg 0.562lb

Shipping Weight

1.1Kg

Shipping Size

29 x 23 x 15 cms

Shipping Carton

Rugged export quality cardboard

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

INCLUDED ITEMS

Handbook

By download

RJ45 Network Cable

2 metre Cat5 RJ45 plug /RJ45 plug cable

POWER

Power over Ethernet (PoE)

Powered by PoE

Complies to: IEEE 802.3af-2003

Classification Class 0

Consumption

<3 Watts

Power On LED

Bright Blue

XL R AUDIO OUTPUT

Connector

Neutrik 3 Pin XLR Plug

Circuit Type

Electronically Balanced

LineUp

0dBu = -18dBFs

Output Impedance

50 Ohms

Max Output Level

-4dBFs

Noise

-107 dBFs A weighted

THD + N

0.0009% @ 1kHz relative +8dBu

GPO

GPO

Open Collector Active on receipt of Call

Connector

5.08mm Pitch Terminal Block Plug

LIGHTHOUSE LEDs

LED Type

RGB SMD Ultra Bright

Quantity Of LEDs

12

Audio Presence Triggering

Threshold = -28dBFs

Attack Time < 1s

Hold Time: User configurable: 0, 5, 10, 15, 20, 30, 40, 50s

1, 2, 3, 4, 5, 10, 15, 20, 25, 30 mins

Type: Solid LED while audio detected + hold time

Beatrice Call Triggering

Tone = 20kHz

Threshold = -34dBFs

Type: Flashing LEDs

Flash Time: User configurable: 0, 5, 10, 15, 20, 30, 40, 50s

1, 2, 3, 4, 5, 10, 15, 20, 25, 30 mins

Compatibility: Beatrice units with Call facility