# **Dante eSports**



The GTM combines the multiple functions required for the interfacing and communications required in eSports tournaments into one simple to use device.

GTM provides the interface for the gamers, provides the intercom mix, and allows remote control by tournament engineers. There are separate modes that also mean the GTM can be used by the Coaches, Referees, and arena Announcers.

The GTM is available in a stripped down version, with no direct top panel controls, for system integrators.

## **Overview**

- Single user eSports interface
- Multiple headset connection options
- Provides the team group mixes
- Allows referee interfacing and control
- Full Remote & Monitoring Using Windows 10 App GlenController









# **Monitoring Sources**



## **Top Panel Mixer**

The top panel contains three level controls for the user to adjust their desired mix into their headphones from the following sources:

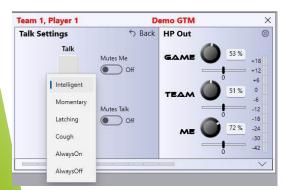
**GAME:** This is the stereo level of the game audio

**TEAM:** This is the overall level of the team comms channel

**ME:** This is the level of the users own voice in their headphones

Large controls allow for quick and easy adjustments and a multicolour LED ring around the control indicates the level position

# **Top Panel Buttons**



There are two top panel push buttons which route the microphone input to a Dante/AES67 output.

These can be configured in the following modes:

Intelligent Momentary Latching Cough/mute Always ON Always OFF







## **Game Audio Source**



-18

-24

-30

-42

For compatibility with multiple tournaments and gaming platforms, there are 5 options of sources for the stereo game audio on the rear panel, which are routed to the GAME headphone level control.

Sources

SPDIF A stereo digital optical TOSLink connection An analogue stereo input on a 3.5mm (1/8") jack socket **AUX IN USB** Stereo USB audio input on a mini USB connection **DANTE** Two single channel sources are available from the network

#### **Multi Channel Mix Sources**

#### **DANTE**

-18

-24

-30

-42

Lock

From the Dante/AES67 network there are 3 stereo inputs available. These can be mixed to 2 channel stereo using the separate GlenController Remote app. Each stereo pair also has a balance control.

Typically only a single stereo pair is used for the game audio, but the further inputs allow for future options and flexibility.

### **HD-SDI** (option)

The optional HD-SDI connection is de-embedded to provide 4 pairs of stereo audio sources. These can be mixed to 2 channel stereo using the separate GlenController Remote app. Each stereo pair has a balance control.

Typically only a single stereo pair is used for the game audio, but the further



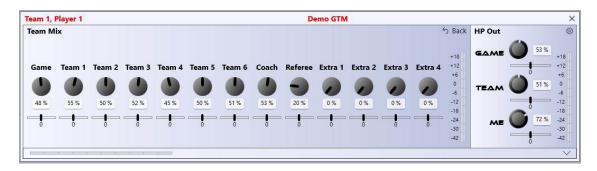




**Team Mixer** 

### **Team Control**

The top panel TEAM pot adjusts the level of the Team Group Mix to the user.



The GTM has an internal mixer that generates a team group mix between all members of the same team. This allows all members of the team to be able to communicate with each other.

There is a multi input, Dante/AES67 mixer controllable via GlenController that sets the levels of all audio being mixed to the GTM TEAM pot of 1 of 7 teams. Typically this is just a mono mix of the 6 other team members but there are also further sources available:

## **Stereo Mix Sources (Dante/AES67)**

GAME The game audio/mix is also available in the team mix
EXTRAs There are two stereo sources

## **Single Channel Mix Sources (Dante/AES67)**

**PLAYERS** The other 6 members of the team can all be mixed in separately

and panned if required.

**COACH** The coach of each team can also be mixed in to be part of the

group team mix.

**REFEREE** If required, the referee can be mixed in to be part of the group

team mix.

**EXTRAs** There are two mono sources

















## **Rear Panel**



## **Connections**

### **Sources**

The multiple input sources for the game monitoring are available via the rear panel. The input source can be selected via the push button. This can be locked to prevent local access if required.

### **Mic Gain**

The mic input gain can be adjusted via the rear panel pushbuttons. This can be locked to prevent local access if required.

## **Phantom Power & Bias**

48V phantom power can be selected, or if using the headset, 2.5V or 5V bias can be used.

### **Network Connection**

Two network connections are available so a redundant network can be available if required for backup. The GTM is powered via PoE from the network switch or via a midspan PoE injector.

## **HD-SDI** (option)





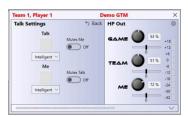




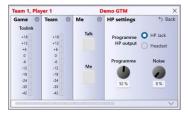
# **GlenController Remote Control**

The GTM is controlled via Glensound's Windows 10 remote control application, GlenController. This is a comprehensive controller with many monitoring, selection, and mix functions. Highlights of GlenController for GTM include:











Adjust the incoming microphone gain via the XLR or headset connection. The Glensound Referee compressor is automatic and prevents clipping, but a further compressor can be added to level out the audio signal. A meter will show real time input level.

All push buttons on the unit can be locked for security.

The position of the headphone level controls can be monitored and adjusted, and each of the 3 audio sources can have the balance level controlled.

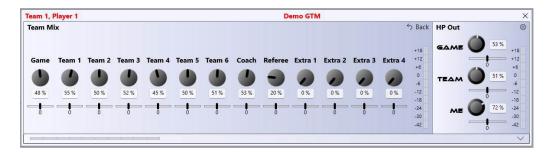
The operation of the push buttons can be adjusted.

The audio routing to the headphone jacks can be routed between the programme audio or the pink noise signal.

The mixing of the sources for the game audio can be adjusted.

The mixing of the sources for the team mix can be adjusted.

The role of the GTM can be set as player, coach or referee. The LED lighting and functions of the GTM will alter for the given user profile.







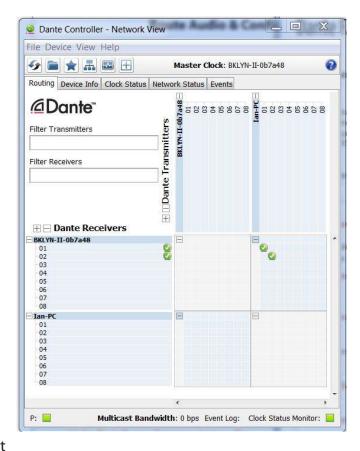


## **Dante Controller**

#### **Dante Controller**

Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. With automatic device discovery, one-click signal routing and user-editable device and channel labels, setting up a Dante network couldn't be easier.

Dante Controller is much more than just a configuration and routing matrix. Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast



bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues. You can also quickly and easily backup, restore, move, and reuse Dante network configurations using Presets, and edit Dante routing configurations offline.

### **Features**

- View all Dante-enabled audio devices and their channels on the network
- View and edit device clock and network settings
- Route audio between devices, and view the state of existing audio routes
- Rename devices and channels using your own friendly names
- Customize the receive latency (latency before playout)
- Save and reapply audio routing presets
- Edit presets offline, and apply as configurations for new network deployments
- Change sample rates and clock settings
- View multicast bandwidth across the network
- View transmit and receive bandwidth for each device
- View device performance information, including latency stats, clock stability stats and packet errors
- View comprehensive, configurable event logs







# **Specification**

#### **AUDIO**

### **Mic Input Gain Range**

60 dBU

### **Phantom Power**

48v

## **Equivalent Input Noise**

124 dBu (residual @max gain 150 Ohms)

#### **Headphone Impedance**

16 to 1000 Ohms

(Auto output level to match impedance)

#### **Maximum Headphone Output**

+14.5 dB into 600 Ohms

#### **Headphone Connector**

Main HP output on 6.35mm TRS or 3.5mm TRS Headset output on 3.5mm TRRS

### **Band Pass Filter**

20Hz-22kHz

## White noise generator

Can be present on either HP output. Configurable in software

## **Additional Audio Inputs**

#### **Game input sources**

Stereo Aux, USB, Optical, Dante, 3G-SDI

#### **NETWORK**

#### **Dante**

Yes Primary & Secondary with Broadway IC

## **AES67 Compliant**

Yes

## **SMPTE ST-2110-30 Compliant**

Yes, using Dante Domain Manager

## **Copper Ethernet**

2 x Neutrik EtherCON connectors

## **Fibre Ethernet**

No

## **Audio Sampling Frequency**

48kHz

#### **Transfer Rate**

1000 Mbps

#### Resolution

24 bit

## **POWER**

#### PoE

May be powered by the PoE network port Complies to: IEEE 802.3af-

Classification Class 0

#### Consumption

<15 Watts

#### **PHYSICAL**

#### Size

135 x 162.5 x 76 mm (WxDxH)

## Weight

0.4Kg

#### **Mechanics**

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

#### **ENVIRONMENTAL**

#### **Operating Temperature**

0 to +50 °C (32 to 122 °F)

### **Storage Temperature**

-20 to +70 °C (-4°C to 158 °F)

#### **Relative Humidty**

0 to 95% non-condensing

### **INCLUDED ITEMS**

#### Handbook

Available by download

## **RJ45 Network Cable**

2 metre Cat5 RJ45plug /RJ45plug cable

