DIGIMIC DCen32
Central Control Unit with 32 audio channels
and Dante™ audio interface
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Description

The Central Control Unit DCen32 controls all connected delegate units within the DIGIMIC 32 channel discussion system, configures them automatically and routes the digital audio precisely where you need it.

DCen32 includes all common microphone modes, including automatic, push to talk and request to speak, voting (with CMic CSV), chairperson priority and VIP management.

In addition, DCen32 manages and completely controls the interpreter consoles type DDol32.

DCen32 offers four independently powered D9 outlets to connect up to 100 delegate units on four chains. Alternatively interpreter consoles DDol32 can be connected to the outlets instead of delegate units, either to combine delegate and interpreter units on one DCen32 or for interpreter units only. Once a unit is connected to the Central Control unit it is ready to use immediately without any further adjustment. DCen32 provides a user friendly menu driven configuration tool to adjust the setup to the local conditions, if desired. For additional functionalities the DCen32 is equipped with a network interface to ensure remote control from various applications via brählerOS, e.g. software microphone control on a geographical virtual microphone mimic and name handling.

For professional interfacing with other devices DCen32 is equipped with analogue and digital interfaces such as ADAT, AES/EBU and 5 x XLR balanced. RS232 interface allows interfacing with media controls and robotic camera systems.

For enhanced sound reinforcement the DCen32 has a build-in easy to use 8x32 audio matrix, giving the opportunity to route all incoming audio signals from each microphone line to a specific output. This ensures clear audio management for even more complex setups with in one single control unit. Additionally, connected Chairpersons' Units can be routed separately to any output for individual mixing.

Dante™: Simple Third-party Interfacing and multi DCen

DCen32 has incorporated a Dante enabled audio interface for both DIGIMIC system interconnection and interoperability with 3rd party digital audio systems.

The Dante audio interface supports a high number of channels therefore it perfectly suits to the needs of a multi-channel simultaneous interpretation system. Routing and distributing the interpreted languages reduces installation complexity to a high extend.

With its Dante interface DCen32 easily integrates into Audinate's digital media networking solution. With its integrated 4 port network switch up to 4 DCens can be connected via Dante without any additional hardware. Alternatively the 4 ports can be adjusted to offer secondary or primary network And it also works with hundreds of 3rd party devices for digital audio processing and interfacing.

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SYSTEMS

Technical Data

Digital Audio
- 48 kHz sample rate
- 20 – 20,000 Hz frequency response
- Approx. 1 ms latency time
- Low susceptibility to mobile phone interference like Bluetooth, UMTS, WiFi etc.

Audio device interfaces
- ADAT input and output
- AES/EBU input and output (XLR)
- One analogue input (IN) XLR balanced
- Five analogue outputs XLR-plug: 1 Master
- +1 separate for each line

Dante™ Interface
Configurable Ethernet switch for redundant Dante digital output (Dante 1-4)
- 4 port integrated network switch
- Link Speed: 1 Gbps
- Sample Rate: 48 kBps
- Sample width: 24 bit
- Maximum number of input channels: 64 (32 languages fixed / 16 Floor audio inputs fixed)
- Maximum number of output channels: 64 (32 languages fixed)

Control input and output
- Network interface (TCP/IP)
- Wordclock input
- RS232 interface (CR9-socket) for microphone keyboard, media Control, camera systems, etc.

Connection of units
- UNITS L1 ... L4 (D9-cable)
- Up to 100 delegate units on four chains or several interpreter consoles on one chain and delegate units on the other chains
- Line extension with Power Supply DExt32

Features

- Four independent power supplies - one for each chain
- HOT SWAP functionality. After replacement of a defective microphone unit, the new unit will automatically be configured with the settings of the old one.
- Dante™ multi-channel networked audio
- LC Display for menu controlled operation
- 8 buttons for operation of the LCD menu
- 4 green LEDs for indication of the accurate operating voltage at the four outputs L1-L4
- 4 yellow LEDs for indication of AF signal level
- 8 x 32 audio matrix allows sophisticated sound reinforcement and audio distribution
- Outputs protected against short circuit and overload
- Expandable for over 2.000 delegate units

Microphone Modes
- AUTomatic - Each delegate can switch himself on and off
- AUTomatic NEXT/FLOAT
- MANual - Each delegate can put himself into a request list
- PRIOrity - Chairperson can override all other delegates
- VOX - Voice activation

Interpreting
- Up to 32 channels

Power Supply
- Mains power: (90 ... 240) AC voltage, (50 ... 60) Hz
- Power consumption: 480 W max.