

## GEN-C2000

Digital Networked Conference Processor for wired units



### Features

- The unique AUDIO-LINK digital ring network technology achieve full-digital signal transmission and processing
- One CAT5e cable to transmit up 64 channels audio and other signals.
- All microphone units support audio, ID independent output. Working with voice recognition system to achieve voice role separation.
- High-fidelity sound quality by lossless audio transmission technology, 48K audio sampling rate and 20Hz ~ 20KHz frequency response
- A single conference controller can realize the independent control and merging of 4 conference rooms, can handle the cascade of multiple conference controllers to realize the merging and separation of larger conference rooms (Optional). Ability to group and control 4 independent microphone line.
- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changing discussion unit or having any malfunctioned units
- The sensitivity of the unit microphone and 8 segment equalizer EQ adjusted independently.
- Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice. AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology.
- Sound output by separated zones function, each zone is automatically adjusted according to the volume of the position of the microphone, achieve longer distances pickup without whistle.
- Echo cancellation, remote two-way real-time call with another conference controller or another third-party video conferencing terminal.
- Memory capacity : USB memory ROM 32Gb (Via included USB stick), internal CPU with RAM memory, controller monitor, advanced noise cancellation technology to realize clearer recording.
- System date, time management, and support count-down speech. Optional DANTE output module with other DANTE equipment used.
- Optional 4th output RJ45 port for chairman unit, delegate unit, translation unit and other microphones. The 4th port is above the audio link port.
- Can drive 2x120W POE speaker, through extension main unit, support up to 16 POE speakers.

## Functions

- "Hand-in-Hand-Loop-Network" connection and the system assigned to each unit independently ID to avoid ID conflict.
- Only wired discussion units can connect to the controller, fast and easily to adding delegate of meetings.
- 2 channel audio input, XLR or RCA type, for local audio input or remote video-conferencing input.
- Maximum 8-channel audio output, XLR, RCA or Phoenix type, can be connected to simultaneous interpretation output or partitioned output.
- Add the audio input box, the system can be connected to other condenser microphones or dynamic microphones, more choices for users.
- Built-in multi-way internal communication function.
- TCP/IP connection between controller and PC
- RS232 central control, realize microphone switch, priority, volume and other controls.
- RS232 or RS485 to send the PELCO/VISCA protocol to realize camera auto-tracking function.
- Hot plug-and-play, and auto-recovery function.
- Wide range of voltage from 100V~240VAC
- Without using PC software, our conference controller still owns following settings:
  - Limit on the number of speaking persons: By Setting the number of active units at the same time (Number is 1/2/4/6/ units), supports up to open 32 wired microphones in full-on mode.
  - Discussion modes:

"OPEN" Free for all, limited by the active units setting by controller, "VOICE" Can activate MIC by detecting sound without press button, "OVERRIDE" First in First out, "APPLY" To apply then to speak, "PTT" Press to speak(Optional), "ALL" Full open mode(Optional).

- Voting function: Approve/Abstain/Object
- Chairman unit has priority to close all other units or mute them temporarily
- Chairman unit can consent the application for speaking from delegate
- Simultaneous language interpretation
- With PC software to add more ways of voting:
  - Approve/Object
  - Approve/Abstain/Object
  - Level: 1/2/3/4/5
  - Ranking: --/0/+/++

## Control & Indicators

LCD display to show all the operations and results

4-Way button for menu operate

One-button press to start recording

light indicator

Master volume control knob

## Interfaces

Front panel USB recording interface  
3.5mm headphone for monitoring  
1x RCA audio input  
1x XLR audio input  
1x RCA audio output  
1x XLR audio output  
6x Phoenix audio output connector  
2x RJ45 digital audio connection  
2x RJ45 for chairman unit, delegate unit, unit translators and other connection  
1x RJ45 for wireless AP or router  
1x DP9 male interface for external control  
1x DP9 female interface for camera  
1x three-pin phoenix interface for camera control keyboard  
1x RJ45 for computer connection or network switcher  
1x grounding screw  
1x 100 ~ 240V AC Power Interface

## Technical Parameters

Power 100V / 240V AC  
Static power consumption 12W  
Maximum power consumption 150W  
Frequency Response 20Hz ~ 20KHz  
Noise ratio (S / N) >96dBA  
Total harmonic distortion <0.05%  
Channel Crosstalk > 85dB  
Dynamic range >94dB  
RS-232 control: 1x9-pole Sub-D female socket 1x9-pole Sub-D male socket  
Ethernet control: RJ45 connected to PC  
Mounting: 19" standard rack

Max. audio inputs  
LINE IN 1: +10dBu  
LINE IN 2: +10dBu  
Max. audio outputs  
LINE OUT 1: +12dBu BAL.  
LINE OUT 2: +12dBu BAL.  
LINE OUT 3: +12dBu BAL.  
LINE OUT 4: +12dBu BAL.

Output impedance: >1kΩ



PC communication method: TCP/IP

Camera control method: RS-232/UDP

Network Interface: RJ45

Display: LCD1602

Recording file size: 0.8M/min

Limit on the number of speakers: 1/2/4/6, max in 8

persons Camera Tracking Protocol: PELCO-P/PELCO-D/

VISCA

Operating temperature: 0 ~ 45°C

Storage temperature: 20 ~ 50°C

## GEN-CU1/GEN-DU1

Digital Discussion Unit with physical button



The appearance of this conference unit continues the classic design ideas, absorbing a number of classic microphone elements, including a long-stroke physical speaking button with a concave relief, a built-in 2x2W high-quality speaker, and a symmetrical design.

### Features

- The unique AUDIO-LINK digital ring network technology achieve full-digital signal transmission and processing
- Stylish, low profile design with physical button
- The cable connection of MIC units are either hiding underneath or from the rear of the unit, makes it convenient for different request of installation
- Internal high-fidelity loudspeaker
- Head-set interface in both sides with volume adjust
- Line-in interface which allows microphone or other line-in device like cell phone, laptop to pass audio through to perform teleconference
- The unique AUDIO-LINK digital ring network technology achieve full-digital signal transmission and processing, completely avoid the RF interference from cell phone or similar devices.
- “Hand-in-Hand-Loop-Network” connection makes the system always working perfectly and more reliable.

## Functions

- Completely avoid the RF interference from cell phone or similar devices.
- Single CAT5e cable transmits 64 channels of audio and various information.
- High fidelity sound by zero loss audio transmit technology, 48K audio sampling frequency, 20Hz~20KHz response frequency
- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changing discussion unit or having any malfunctioned units
- This system automatically assigned to each unit independently ID to avoid duplicate ID conflict
- Limiter to prevent the sound suddenly become loud or low; noise gate of human voice can be identified; AGC (Automatic Gain Control)/AFC (Adaptive Feedback Cancellation)/ANC (Active Noise Control)/Mix (Auto-Mix) technology
- Hot-swap for any system unit, and the controller has auto-recovery function
- Precise cardioid directional microphone capsule with anti-wind microphone foam, with two-color LED indicator  
Button for MIC ON/OFF, Priority & Apply Answer button for chairman unit
- Built-in high-fidelity speakers, it automatically mutes to prevent howling when press MIC ON  
Head-set interface in both sides with volume adjust
- Discussion modes:
- "OPEN" Free for all, limited by the active units setting by controller, "VOICE" Unit activated by voice, "OVERRIDE" First in First out, "PTT" Keep pressing button when speaking, "APPLY" To apply then to speak, "ALL" Free to speak for all people
- Work with our HD camera and video matrix switcher, it applies camera auto tracking function

## Control & Indicators

### Electrical parameters Maximum

power consumption: 2.0W

Frequency response: 20Hz ~ 20kHz

Total harmonic distortion (THD)..... <0.1%

Dynamic range..... > 94dB

Signal-to-noise ratio (S / N)..... > 96dB

Headphone load impedance ..... > 16Ω <1kΩ

Headphone output power ..... 25mW

Rated microphone input..... > 70dB SPL

Maximum microphone input .....> 100dB SPL

Speaker rated output .....> 70dB SPL at 0.5m

Sensitivity .....- 46 dBV / Pa

### Mechanical parameter

Connection method..... CAT5 / CAT6 cable + snap

Buttons..... Stroke button

Main material..... Aluminum alloy, ABS

Color: Black