

# CONVERS Series New Generation **Full Digital Network** Conference System, with High Tech in DSP unique Sound Processing

## **Compact yet versatile design**

We are well aware that the main body of the meeting is the participants, so the product design reflects the elegant, yet compact and easy to use features. Common CAT5e connection ensures fast and easy to build any sized meeting occasions, conference unit features a graphical interface operating area, including lighting reminder, anyone can get started quickly. Easy to install, user-friendly to use, and is designed to ensure higher productive meetings.

## **Excellent sound performance**

Advanced voice processing technology, with the unique design of the microphone, this unit can be accurate pickup and restore the human voice through a high-quality built-in speakers or an external PA system, original AUDIO-LINK digital ring network technology, Automatic Gain Control Volume(AGC) / automatic frequency control(AFC) technology help reach higher volume without triggering the howling effect, ensures each word spoken is well understood.

## **High tech intelligence platform**

Timing function, overtime reminder, voting results multi-platform synchronization, network control and meeting management, conference Smart reservation, worldwide firmware real-time updates, the integration of IT technologies ensures smart conferencing platform, the **CONVERS** Series is one of them.

## **Complete easy-handling management**

The Central Unit is the center of the system –Provide power to the whole discussion units, control the cameras and link to other third-party devices. The 1U compact design is easily to put anywhere while keep a low profile in meeting room.

## **Simple control with convenient recording**

We try to use less buttons to simplify the operation, and an LCD screen helps you monitor real-time action obviously. The USB slot enable it record every important meeting discussion, to file up every contents simply

## CONVERS Series CKC-F660-D

Fully Digital Networked DSP 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).
- "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.
- USB recording, 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.
- Can drive 2x120W POE speaker, through extension main unit, support up to 16 POE speakers.

## Functions

- Compliance with IEC 60914, GBT 15381-94
- Connect with CKS-EXU full-digital extension main unit, it can expand to 5200 discussion units
- "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/+/++
- By using RFID card to identify, can realize voting with names.

## 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) > 80dB  
Total harmonic distortion < 0.05%  
Channel Crosstalk > 80dB  
Dimensions (mm) 483L x 260W x 43.6H  
Black color

## CONVERS Series CKC-F-DCU/ CKS-F-DDU

Digital Flush-mounting Discussion Chairman/Delegate Unit

### Features

- Stylish, low profile design with touchable interface
- Standard CAT5e and RJ45 connectors are used in CONVERS series to provide more convenient on projects and maintenance.
- Pluggable gooseneck microphone
- Priority button and approval button on chairman unit CKC-F-DCU
- 3.5 earphone jack
- 48 kHz audio sampling rate
- Anti RF interference from cell phone or similar devices.
- Hot plug and play
- The discussion unit CKC-F-DCU/ CKS-F-DDU can be used independently or connected to CKC-F-SPU



### Functions

- Compliance with IEC 60914, GBT 15381-94
- 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.
- 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 is assigned to each unit independently ID to avoid duplicate ID conflict
- 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
- 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)
  - Discussion modes: "**OPEN**" Free for all, limited by the active units setting by controller, "**OVERRIDE**" First in First out, "**VOICE**" Can activate MIC by detecting sound without press button, "**APPLY**" To apply then to speak
  - Chairman unit has priority to close all other units or mute them temporarily
  - Chairman unit can consent the request for speaking from delegate
  - Support simultaneous language interpretation by connected to the channel selector
- Work with HD camera and switcher, it can realize camera auto tracking function

## *Control & Indicators*

Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak.

MIC ON/OFF buttons with indicating backlight

Chairman unit with priority button and consent button for the delegates

## *Interfaces*

1xPluggable gooseneck microphone base

1x 3.5mm stereo headphone jack on front

2x RJ45 connectors for daisy chain

RJ11 socket

3.5mm socket, RJ11 for CKC-F-DCU/ CKS-F-DDU

1x3.5mm speaker socket for CKS-F-SPU

## *Technical Parameters*

Button: Touchable interface

Sound Pickup: heart type capacitance

Sensitivity: -46 dBV / Pa

Maximum power consumption: 2.0W

Directivity: 0 ° / 180 ° > 20 dB (1 kHz)

Headphone load: 16Ω

headphone volume: 10mW

Headphone jack: 3.5mm stereo

Input impedance: 2kΩ

SNR: 70dB

Frequency response: 20 ~ 20000Hz

Equivalent noise: 20dBA (SPL)

Main material: Aluminum

The maximum sound pressure: 125dB (THD <3%)

Weight: 0.6kg (with microphone)

Dimension: 100L × 40W × 65H mm (without microphone)

Operating temperature: 0 °C to + 55 °C

Color: Black

## CONVERS Series CKC-F-SSU

Digital Flush-mounting 64 source Selector

### Features

- Stylish, low-profile design with touchable interface
- 64 language channels for simultaneous interpretations, all channels with a 20Hz to 20kHz frequency response.
- Standard CAT5e and RJ45 connectors are used in CLEACON series to provide more convenient on projects and maintenance.
- Automatically adapts to available channels
- Built-in "Auto Silent" function
- Flush mountable in tabletops, on top or at the front, or in arm-rest of seats.
- Hot plug and play



### Functions

- 64 language channels for simultaneous interpretations, all channels with a 20Hz to 20kHz frequency response.
- Built-in channel selecting buttons, volume adjust buttons and OLED display
- The channel selectors will active only when the headphone is inserted.
- Upon insertion of a headphone the default 'floor' channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlight is activated.

### Control & Indicators

Two touch-buttons(up/down) for channel selection

Two touch-buttons(up/down) for headphone volume control

OLED display for channels and volume information

### Interfaces

3.5mm stereo audio jacket on front for headphone

2x RJ45 connectors for daisy chain

### Technical Parameters

Button: Touchable interface

Maximum power consumption: 1.8W

Headphone load: 16Ω

headphone volume: 10mW

Headphone jack: 3.5mm stereo

Input impedance: 2kΩ

SNR: 70dB

Frequency response: 20 ~ 20000Hz

Weight: 0.2kg

Dimension: 100L × 40W × 65H mm

Operating temperature: 0 °C to + 55 °C

### CONVERS Series CKC-F-SPU

Flush-mounting Speaker Unit

#### Features

- Unique compact design with aluminum enclosure
- High fidelity internal speaker

#### Interfaces

1 m cable terminated with a 3.5 mm stereo jack

#### Technical Parameters

Interface load: 16Ω, Speaker:3W, Connection: CAT5/6e cable,

Material: Aluminum alloy, Mounting: Flush-mounting,

Weight: 0.2KG, Dimension: 100L × 40W × 30H mm

Operating temperature: 0 °C to + 55 °C



### CONVERS Series CKC-F-EXU

Extension Main Unit

#### Features

- Expense four chains, No fan and noiseless design, Compact profile

#### Functions

- To achieve loop wired architecture with star wired benefits.
- Get 4 CU/DU channels.
- Work with no noise power supply to achieve "No fan, Noiseless" power enhancing.
- The distance between CKC-F-EXU extension main unit up to 100m

#### Control & Indicators

Power indicator

Loop through chains indicators

Repeated chains indicators

Grounded or Floating switch

#### Interfaces

Self-locking DC connector

4 x RJ45 loop ports or Microphone ports

2x RJ45 Loop through chains

#### Technical Parameters

Power: 3A 48VDC, Dimension:223x37x92mm (W x H x D), Weigth:0.5KG



## **CONVERS Series CKC-600/CKC-485/CKC-410/CKC-330**

Pluggable Gooseneck Microphone

### ***Features***

- Precise directional microphone head with Mini design
- Two color LED ring indicator
- anti-wind microphone foam cover
- Strong audio collection ability to work with different length of microphone

### ***Functions***

- Two-color LED indicator on microphone, red for speaking, green means need acceptance from chairman to speak
- Screw lock socket to connect removable microphone



### ***Technical Parameters***

Length:

CKC-600 600mm,

CKC-485 485mm

CKC-410 410mm

CKC-330 330mm

Color: Black

## **CONVERS Series CKC-CAT02/ CAT05/ CAT10/ CAT20**

Professional CAT5E conference extension cables

### ***Features***

- TIA/EIA 568B CAT5E
- ISO/IEC 11801 ClassD
- CELENEC EN50173, EN50167, EN50169
- UL C(UL)&ETL Verified
- Pre-test by VISSONIC

### ***Functions***

- Extension cable for main unit to CU/DU unit
- Carry 48DC power and signals
- Male to Male cable
- Size from 2m to 20m

