VISSONIC

Full Digital Networked Multimedia Conference Units

Product Datasheet

VISSONIC ELECTRONICS LTD.

Think Solution

Application diagram

CLEACON SYSTEM
Conference control software

VISSONIC
VIS-DCP2000-D
All digital network DSP
conference processor

VISSONIC
VIS-DMD-T
All-in-one touch screen conference chairman unit

Hand in hand ring connection

CAT5e network cable
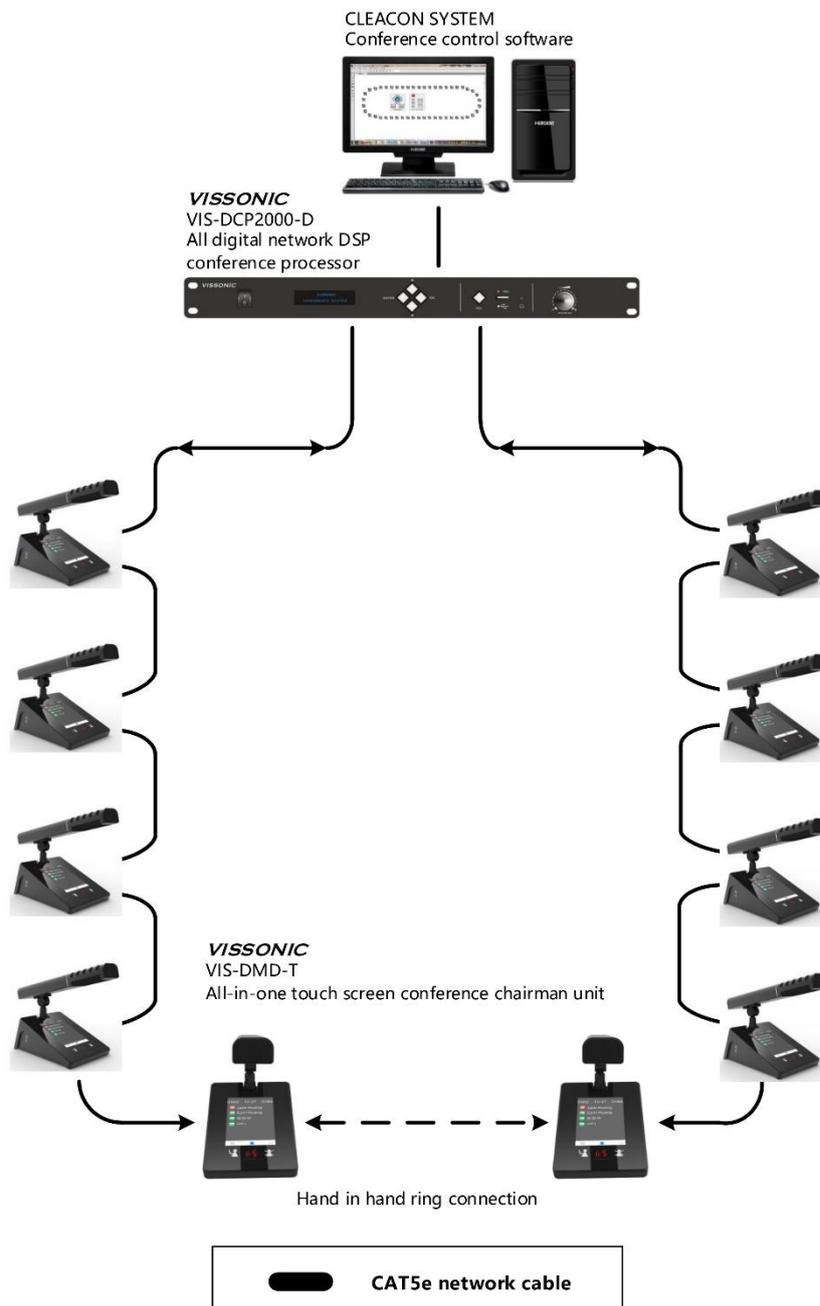
New Generation **Full Digital Network** Conference System, with High Tech in DSP unique Sound Processing

CLEACON Full Digital Networked DSP Conference System

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 CLEACON 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 a 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

VIS-DCP2000-D

Full 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 VIS-EXM 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) >96dBA

Total harmonic distortion <0.05%

Channel Crosstalk> 85dB

Dynamic range >94dB

RS-232 control: 1×9-pole Sub-D female socket 1×9-pole Sub-D male socket

Ethernet control: RJ45 connected to PC

Mounting: 19" standard rack

Dimensions (mm) 483L x 260W x43.6H

Weight: 3kg

Black color

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℃

Storage temperature: 20 ~ 50℃

Item Model for Order

VIS-DCP2000-D.................. Full digital network DSP conference processor

CLEACON Series **VIS-DMD-T**

Multimedia digital conference unit with touch screen

The VIS-DMD-T is a multimedia conference unit based on the VISSONIC AUDIOLINK multimedia IP network technology. It is equipped with a 4.3-inch touch screen, which improves the flexibility of the conference and the interactivity of the meeting content.

This unit can set as chairman, delegate, VIP or dual-user unit according to the requirements of the conference. As the various requirements of meeting, it can upgrade the software to achieve more functions without changing unit or hardware.

The current software module contains five functions:
-Vote
-NFC card identification
-Simultaneous interpretation channel
-Dual user
-Bluetooth

By chairman unit, you can use the touch screen on the VIS-DMD-T unit to manage different aspects of the meeting. It allows you to start, pause meetings, view request-to-speak lists, approve request, view addresser profiles and speaking times, and even record meetings, easily start and stop voting etc.

By delegate unit, you can view the agenda and the remaining time to speak. You can even see who is speaking and the position you are on the speaking list.
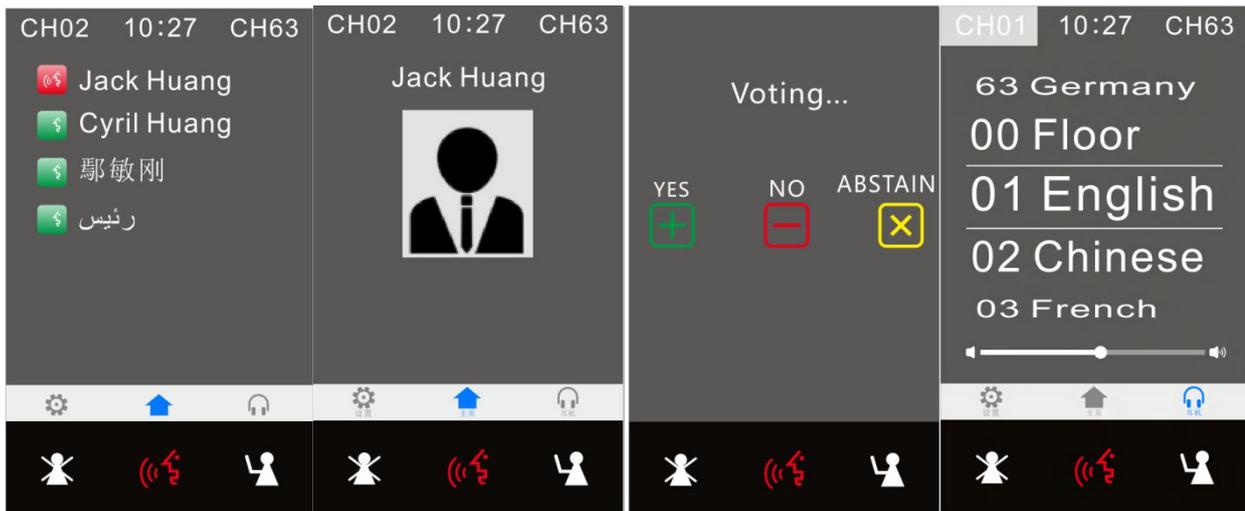
Features

- Compatible with IEC 60914, GBT 15381-94 standard
- The unique AUDIO-LINK digital network technology realizes full digital signal transmission and processing.
- Single CAT5e cable transmits 64 channels of audio and various information.
- High-fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20Hz ~ 20KHz response frequency.
- 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.
- 4.3-inch capacitive touch screen and built-in NFC card reader can quickly identify participants
- All-in-one touch screen conference unit, it can be configured as a chairman unit, delegate unit, VIP unit or dual delegate unit
- Easily expand functions by setting software modules

Functions

- The design is compact, modern and with latest VISSONIC technology
- Adopt standard CAT5e with RJ45 connector as the connection cable, which is convenient for standardized engineering wiring installation and maintenance.
- All-in-one touch screen unit can be set as the chairman, delegate, VIP or dual delegate unit via conference system software or the menu of conference controller front panel.
- Chairman unit can pause the delegate's speech, close the delegate's speech, view the speaking request list, agree or reject the delegate's speech request, and functions of starting conference recording, stopping recording, selecting conference topics, initiating sign-in, and voting.
- Delegate unit can request to speak and view your position in the request list, information of the addresser, and view the meeting topic.
- The system can set up to 32 VIP delegate units. As long as the total number of microphones already turned on in the system does not exceed 8, the VIP delegate unit can be turned on freely.
- Contains five optional function modules:
  - Voting: three-button / two-button voting
  - NFC identification: Sign in with NFC card to accurately identify user information.

- ■ Simultaneous interpretation channel: support 2 language channel selectors, each selector supports 64 languages independent selection.
- ■ Dual users: Support two participants sharing one unit to achieve camera tracking at two locations; enabling two delegates to vote on one unit.
- ■ Bluetooth: can be connected to hearing aids etc.

- 4.3-inch capacitive touch screen displays conference information, such as agenda, addresser information, addresser list and request-to-speak list, speech timing, timing speaking, current time and date, Chinese and English switching, and checking unit version information.
- The conference unit has sign-in function and service function through the touch screen
- Supports set the current microphone sensitivity and 8-band equalizer EQ adjustment.
- Can be configured with gooseneck microphone or rectangular digital and analog dual backup microphone
- Dual headphone port design, volume can be adjusted through touch screen
- Hand-in-hand-loop-network connection and star connection, the system is more reliable. Replacement one unit and failure of cable will not affect the normal operation of other units in the system.
- Hot plug-and-play, automatic recovery.
- The number of speakers limit function: you can set the speaker units that are turned on at the same time (the number is 1/2/4/6, and a maximum of 32 units are allowed to speak in the full-open mode)
- Has the following speaking modes:
- "OPEN" open mode, "VOICE" voice control mode, "OVERRIDE" mode, "APPLY" application mode, "PTT" press and hold to speak (optional), "ALL" full open mode (optional)
- Combined with camera and a camera tracking controller, it has an automatic camera tracking function.

Control & Indicators

Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak
4.3-inch capacitive touch display.
Microphone switch button
Chairman unit with priority button and approve to speak button

Connection

Pluggable microphone connection base
Two 3.5mm stereo Headphone jacks
Two RJ45 connectors

Technical parameter

Screen size :109.22 mm (4.3 inches)
Resolution: 800x480
Screen type: Capacitive multi-touch
Contactless NFC cards in following standards: ISO / IEC14443 Type A
Connection method: CAT5 / CAT6 cable + buckle

Electrical parameters
Power: 48V DC
Supply consumption:5 W
Frequency response :20~20000Hz

THD at rated level <0.1%

Dynamic range> 90 dB

S / N ratio> 90 dB

THD at rated level <0.1%

Audio input

Nominal microphone input 80 dB SPL in accordance with IEC60914

Maximum sound pressure 125dB (THD <3%), in line with IEC60914

Sensitivity -46 dBV / Pa

Audio output

Headphone load 16Ω Headphone volume 10mW

Headphone port 3.5mm stereo socket Input impedance 2kΩ

Mechanical parameter

Installation: desktop

Dimensions (mm, without microphone): 160L x 100W x 65H

Color: Black

Weight: 0.7KG

Environmental parameters

Operating temperature 5 ºC to +55 ºC

Relative humidity <90%

Item Model for Order

VIS-DMD-T .... Multimedia touch screen conference unit

VIS-DCP2000-D ..... Full Digital Network DSP Conference controller

VIS-MDA .... Rectangular microphone, Digital + Analog output dual backup microphone

VIS-M220 .... 220mm microphone (black) with anti-wind foam cover

VIS-M330 .... 330mm microphone (black) with anti-wind foam cover

VIS-M410 ....410mm microphone (black) with anti-wind foam cover

VIS-M480 .... 480mm microphone (black) with anti-wind foam cover

VIS-M600 .... 600mm microphone (black) with anti-wind foam cover

Optional function license

VIS-LLGE .... Dual 64-channel selector software module

VIS-LVOTE .... Vote software module

VIS-LIDEN .... NFC identification software module

VIS-LDUAL .... Dual user software module

VIS-HLBLTH .... Bluetooth Hearing Software Module

VIS-EXM

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 VIS-EXM 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

Item Model for Order

VIS-EXM.................Extension main unit

VIS-M600/VIS-M485/VIS-M410/VIS-M330

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:
VIS-M600 600mm
VIS-M485 485mm
VIS-M410 410mm
Weight:
VIS-M600 130g
VIS-M485 120g
VIS-M410 100g
Color: Black

Item Model for Order

VIS-M330..................330mm Microphone, with anti-wind foam cover
VIS-M410..................410mm Microphone, with anti-wind foam cover
VIS-M485..................485mm Microphone, with anti-wind foam cover
VIS-M600..................600mm Microphone, with anti-wind foam cover

VIS-HL002/ HL005/ HL010/ HL020/ HL050/HL100

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 100m

Interfaces

2x male RJ45

Technical Parameters

Standard: TIA/EIA 568B CAT5E

Connector: Shielded RJ45

Shielding: F/UTP

Resistance:100ohm±15%,1MHz to 100MHz

Delay skew:25ns/100m max

Gauge:24AWG solid bare copper

Flame retardant rating: CM, IEC332/1

Storage Temperature: -20℃~80℃

Operation temperature: -20℃~60℃

Item Model for Order

VIS-HL002.................. 1.5m black shielded Cat5e U/FTP cable (shielded RJ45)

VIS-HL005.................. 5m black shielded Cat5e U/FTP cable (shielded RJ45)

VIS-HL010.................. 10m black shielded Cat5e U/FTP cable (shielded RJ45)

VIS-HL020.................. 20m black shielded Cat5e U/FTP cable (shielded RJ45)

VIS-HL050.................. 50m black shielded Cat5e U/FTP cable (shielded RJ45)

VIS-HL100.................. 100m black shielded Cat5e U/FTP cable (shielded RJ45)

About VISSONIC Electronics Limited

Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.

VISSONIC

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