

# VISSONIC

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Professional Audio Video Manufacturer

## Full Digital Wired Conference Units

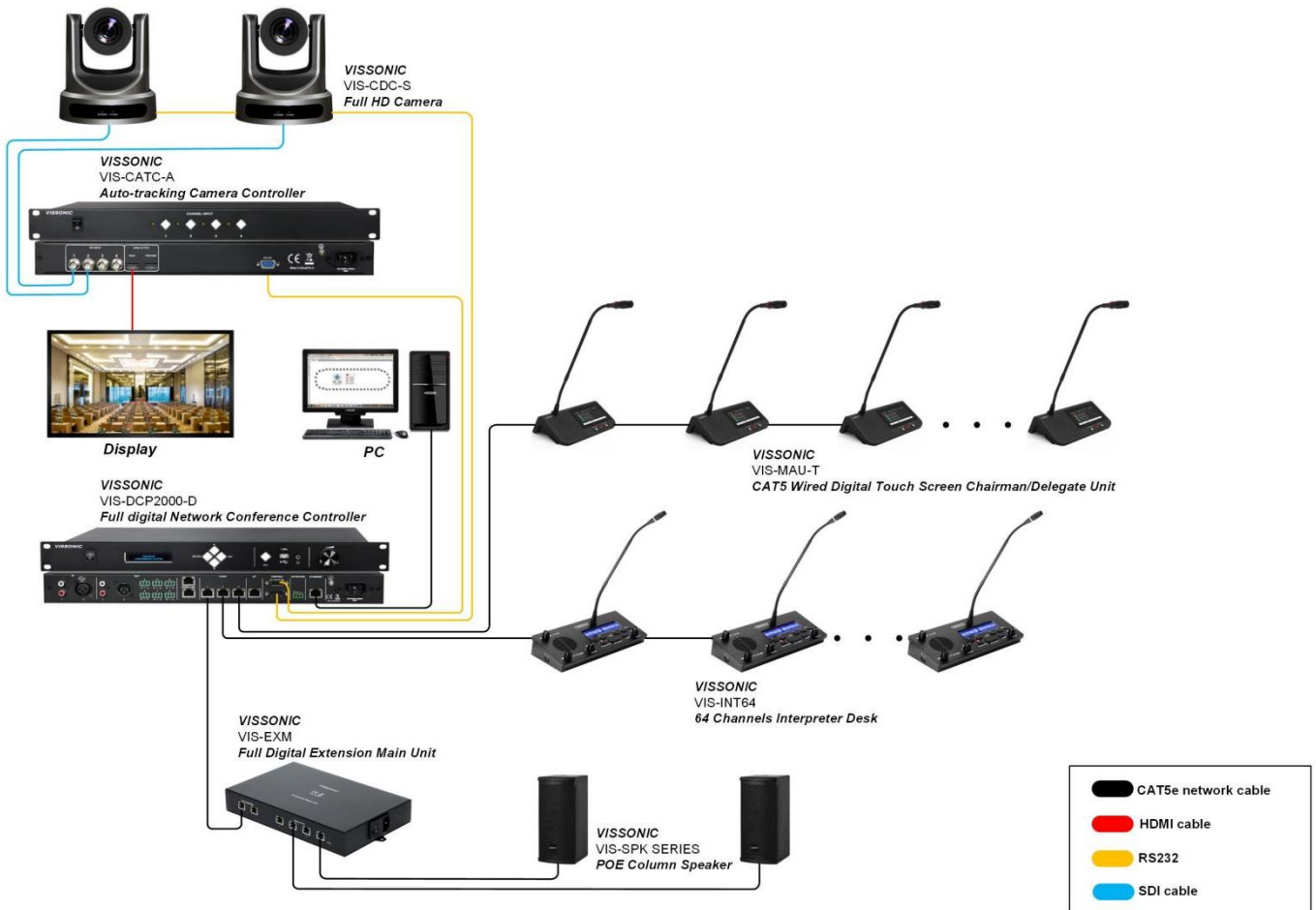
PRODUCT DATASHEET



**VISSONIC ELECTRONICS LTD.**

**Think Solutions**

# Application diagram



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

## **CLEACON Full Digital Networked DSP Conference System**

VIS-MAU-T is based on the VISSONIC AUDIOLINK multimedia IP network communication protocol. The unit is also equipped with a 4.3-inch touch screen, which improves the flexibility of conference functions and the interactivity of content.

The unit can set as chairman unit, delegate unit, and VIP unit according to the needs of the conference site. Under the same hardware, as meeting requirements change, software can be upgraded to achieve more functions without repurchasing hardware.

The current software module contains below options:

- Vote
- NFC card recognition
- Simultaneous interpretation channel
- Dual representative unit

As the chairman, you can use the touchscreen on the VIS-MAU-T unit to control different aspects of the meeting. It allows you to start, pause meetings, view the request list, approve requests to speak, view speaker profiles and when they speak, even record meetings, and easily start and stop voting sessions.

As a delegate, you can view the agenda item being discussed, as well as the time remaining to speak. You can even see who is speaking and which position you are on the request list, and voting result etc.

## 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

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- 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

### *Item Model for Order*

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

## VIS-MAU-T

Wired Touch Screen Unit



### Features

- 4.3-inch capacitive color touch screen with stylish and low-profile design
- The unique AUDIO-LINK digital network technology realizes full digital signal transmission and processing.
- Built-in NFC card reader for quick identification of participants
- All-in-one touch screen conference unit can be configured into one chairman unit, delegate unit, VIP unit or dual delegate unit according to the different needs of each meeting
- Internal high-fidelity loudspeaker
- Each microphone unit can independently adjust the sensitivity through the touch screen, supports -12dB to +12dB adjustment, supports 8-band equalizer EQ adjustment
- Pluggable microphone and long-range sound pickup ability, support different length of microphone.
- 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 unit showing time/date on the screen. Timer on display to set certain time for each delegate to speak, will remind user or close the MIC automatically.
- Easily expand functions by setting software modules

### Functions

- Compliance with IEC 60914, GBT 15381-94
- Adopt standard CAT5e with RJ45 connector as the connection cable, which is convenient for standardized

engineering wiring installation and maintenance.

- Full-digital transmission and processing technology in uncompressed audio, professional microphone to achieve perfect sound quality at 20Hz ~ 20KHz;
- With our HD PTZ camera and video matrix switcher, using RS485 or RS232 protocol to send the PELCO/VISCA protocol to realize camera auto-tracking 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
- AGC (Automatic Gain Control)/AFC (Adaptive Feedback Cancellation)/ANC (Active Noise Cancellation)/Mix (Auto-Mix) technology
- Build-in functions for intercom
- 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: There are 2 language channel selectors and each selector has 32 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
- 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
- The unit showing real time on the screen, and count-down timer for speaking person.
- Combined with camera and camera tracking controller, it has an automatic camera tracking function.
- Built-in MCU, support wired upgrade of all units.
- With voice control function, you can adjust the sensitivity of voice control, intelligently turn on the microphone and set the off time.
- Hot plug-and-play, automatic recovery.
- "Hand-in-hand-loop-network" connection and star connection makes the system more reliable. Replacement one unit and failure of cable will not affect the normal operation of other units in the system.
- When used as the chairman unit, a variety of conference information can be displayed through the 4.3" touch screen, such as agendas, speech request list, speaker information and speech timing or countdown, etc. At the same time, it can start conference recording, stop recording, switch conference topics, request services, initiate sign-in, and initiate voting.
- When used as the delegate unit, through the 4.3" touch screen, it can display the speaking order from the speech request list, the speaker's information, agendas, the speech time or countdown, and the service request.
- When used as a VIP unit, 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.
- The 4.3-inch capacitive touch screen displays meeting information, such as agendas, speaker information, speaker list, speech request list, speech timing, scheduled speech, current time and date, Chinese-English dual language switch, unit version information query.



## ***Control & Indicators***

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

### **4.3-inch capacitive touch display**

Indicator for Volume adjustment

Indicator for MIC ON/OFF

Chairman unit with priority button and consent button for the delegates

## ***Interfaces***

Pluggable gooseneck microphone base

2x 3.5mm stereo headphone jack

1x 3.5mm stereo input jack

2x RJ45 connectors

## ***Technical Parameters***

Screen size :109.22 mm (4.3 inches)

Resolution: 800x480

Screen type: Capacitive and color multi-touch

Contactless NFC cards in following standards: ISO / IEC14443 Type A

Connection method: CAT5 / CAT6 cable

Sound Pickup: heart type capacitance

### **Electrical parameters**

Power: 48V DC

Power consumption: 3.4W

Frequency response : 20~20000Hz

THD at rated level <0.1%

Dynamic range > 90 dB

S / N ratio  $\geq$ 96dB

### **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: 16 $\Omega$

Headphone volume: 10mW

Headphone jack: 3.5mm stereo

Input impedance: 2k $\Omega$

**Mechanical parameter**

Installation: desktop

Dimensions (mm, without microphone): 217.5L × 138.5W × 69H

Color: Black

Main material: ABS

Weight (without microphone): 1.0 KG

**Environmental parameters**

Operating temperature 5 °C to +55 °C

Relative humidity <90%

***Item Model for Order***

VIS-MAU-T.....Wired touchscreen unit (microphone is not included)

VIS-M220.....Pluggable Gooseneck Microphone 220mm, unique design

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

**Optional function license**

VIS-LLGE ..... Dual 32-channel selector software module

VIS-LVOTE ..... Vote software module

VIS-LIDEN ..... NFC identification software module

VIS-LDUAL ..... Dual user software module

## VIS-ICARD

Contactless IC card



### *Features*

- Proven, Reliable Technology - Offers extremely consistent read range
- Fast Processing and Data Communication
- True Credit Card Thickness

### *Technical Parameters*

Dimensions: 2.125 x 3.375 x .03" (5.4 x 8.57 x 0.076 cm)

Weight: 6g

Typical Maximum Read Range: Up to 4" (10cm)

Operating Frequency: 13.56MHz

RF Interface: ISO/IEC 14443A/MIFARE, Parts 1-3

Transaction Time: < 100ms

Baud Rate: 106 kbps

Data Retention: 10 years min.

## VIS-LLGE/VIS-LVOTE/VIS-LIDEN/VIS-LDUAL

Software modules for Wired Touch Screen Unit



### *Features*

- VIS-LLGE: License active to realize new feature for Dual language selector
- VIS-LVOTE: License active to realize new feature for voting function
- VIS-LIDEN: License active to realize new feature for IC card identification
- VIS-LDUAL: License active to realize new feature for dual user

### *Functions*

- VIS-LLGE for simultaneous interpretation channel: There are 2 language channel selectors and each selector has 32 languages independent selection
- VIS-LVOTE for voting: Three-button / two-button voting
- VIS-LIDEN for RFID card identification: Sign in or voting with RFID card to accurately identify user information
- VIS-LDUAL for dual user: Two participants share one wired touch screen unit to achieve camera tracking at two locations. It also enables two delegates to vote on one unit

### *Item Model for Order*

VIS-LLGE ..... Dual 32-channel selector software module  
VIS-LVOTE ..... Vote software module  
VIS-LIDEN ..... NFC identification software module  
VIS-LDUAL ..... Dual user 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)  
Weight: 0.5KG

### Item Model for Order

VIS-EXM.....Extension main unit

## VIS-M600/VIS-M485/VIS-M410/VIS-M330/VIS-M220

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

Item	VIS-M600	VIS-M485	VIS-M410	VIS-M330	VIS-M220
Directivity	Cardioid				
Sensitivity	-46dBV/Pa				
Frequency response	30Hz~20KHz				
Equivalent noise	20dBA (SPL)				
Signal-To-Noise Ratio Ref	≥96dB				
Microphone Type	Condenser				
Maximum SPL (1 kHz at 1% THD, 1 kΩ load)	125dB ( THD<3% )				
Conference unit connection	Mini 6 pin.				

Item	VIS-M600	VIS-M485	VIS-M410	VIS-M330	VIS-M220
Input impedance	2 k Ω				
Working temperature	0~45℃				
Storage temperature	-20~50℃				
Weight	80g	80g	60g	60g	60g
Length	600mm	485mm	410mm	330mm	220mm
Color	black				

**Item Model for Order**

- VIS-M220.....220mm Pluggable Gooseneck Microphone, unique design
- 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/HL003/ 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  $\pm$  15%, 1MHz to 100MHz

Delay skew: 25ns/100m max

Gauge: 24AWG solid bare copper

Flame retardant rating: CM, IEC332/1

Storage Temperature: -20°C~80°C

Operation temperature: -20°C~60°C



*Item Model for Order*

- VIS-HL002..... 2m black shielded Cat5e U/FTP cable (shielded RJ45)
- VIS-HL003..... 3m 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.



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