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Professional Audio Video Manufacturer

# Full Digital Wired Entry-Level Conference Units

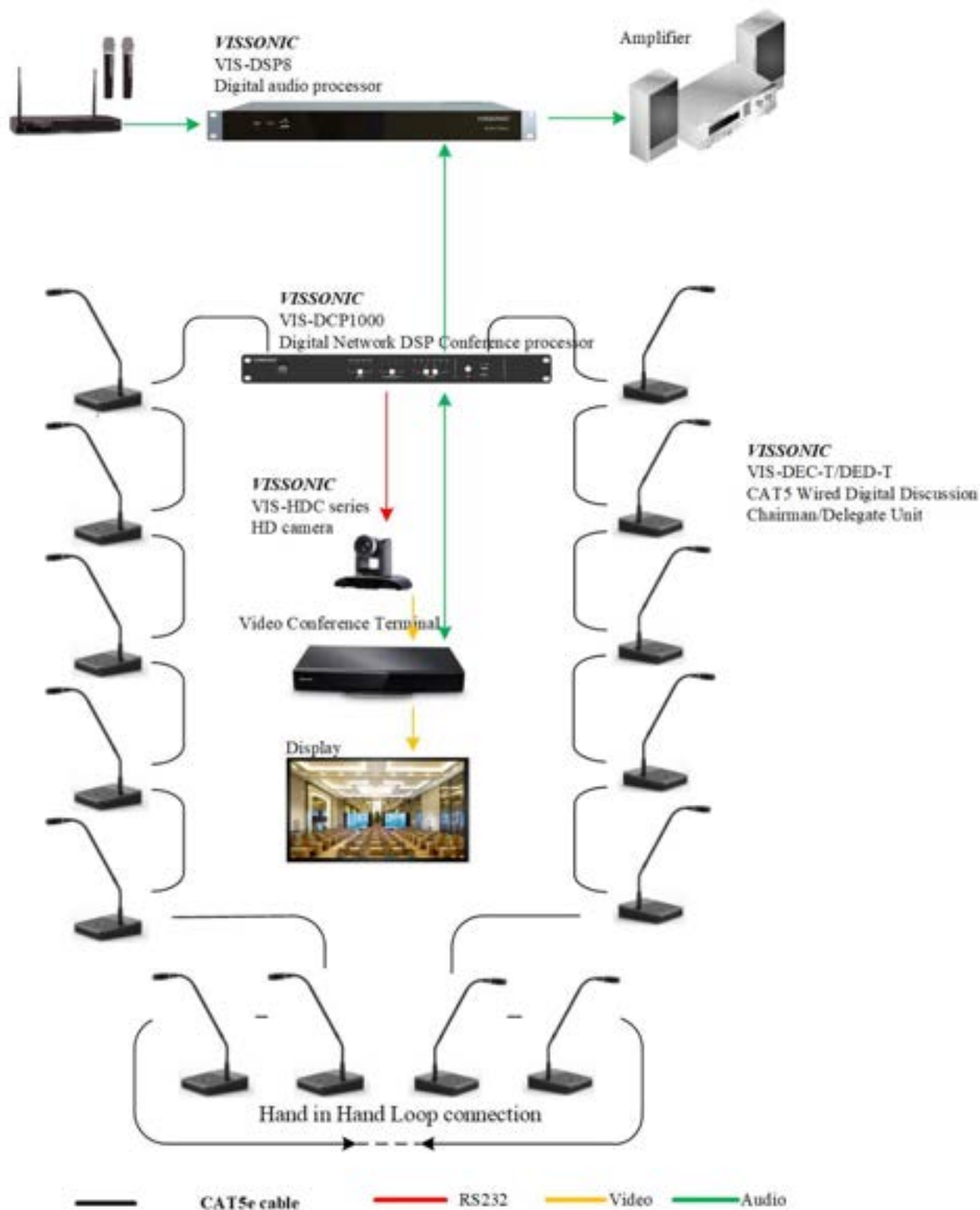
Product Datasheet



**VISSONIC ELECTRONICS LTD.**

Think Solution

# Application diagram



# 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, and 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) > 80dB  
Total harmonic distortion < 0.05%  
Channel Crosstalk > 80dB  
Dimensions (mm) 481L x 265W x 46H  
Black color

### *Item Model for Order*

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



## VIS-DCP1000

Full Digital Networked Conference Main Unit



### Features

- Intuitive function button design, no training required, easy to use
- 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.
- High-fidelity sound quality by lossless audio transmission technology, 48K audio sampling rate and 20Hz ~ 20KHz frequency response
- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changing discussion unit or having any malfunctioned units
- USB recording, advanced noise cancellation technology to realize clearer recording

### Functions

- USB recording, advanced noise cancellation technology to realize clearer recording
- With VIS-EXM digital power box, it can expand to 5200 discussion units
- "Hand-in-Hand-Loop-Network" connection and the system automatically assigned to each unit independently ID to avoid duplicate ID conflict
- 2 channel audio input, XLR or RCA connector, for local input or remote video-conferencing input
- MAX 3 channel audio output, XLR, RCA or Phoenix connector
- Adding the audio input box, this system can be used with condenser microphones or dynamic microphones
- TCP/IP connection between controller and PC
- RS485 or RS232 to send the PELCO/VISCA protocol to realize camera auto-tracking function.
- Hot-swap for any system unit, and the controller has auto-recovery function
- Wide range of voltage from 100V~240V AC
- Without using PC software, our conference controller still owns following settings:
  - Limit on the number of speaking persons: By Setting the number of active delegate units at the same time (Number is 1/2/4/6 units)
  - Discussion modes:
  - "OPEN" Free for all, "APPLY" To apply then to speak, "VOICE" voice activate the mic, "OVERRIDE" First in First out.

- Controlling through RS232 to realize MIC ON/OFF, Priority, Volume adjustment.
- Voting function: Approve/Abstain/Object
- Chairman unit has priority to close all other units or mute them temporarily
- Chairman unit can consent the request for speaking from delegate

### *Technical Parameters*

Power .....100V / 240V AC@50/60Hz

Static power consumption .....12W

Maximum power consumption ..... 150W

Unit power supply..... POE48VDC

RS-232 control ..... 1x9 pin sub female socket 1x9 pin sub-D male socket

Ethernet control..... RJ45 connect computer control

Frequency Response .....20Hz ~ 20KHz

THD.....<0.05%

Channel Crosstalk ..... > 85dB

Noise ratio (S / N) ..... > 96dBA

Dynamic Range ..... > 94dB

### *Installation parameters*

Dimensions (mm) ..... 481L x 265W x46H

Weight ..... 3kg

Color..... Black



## VIS-DEC-T/VIS-DED-T

CAT5 Wired Digital Basic Discussion Chairman/Delegate Unit



### *Features*

- The unique AUDIO-LINK digital ring network technology achieve full-digital signal transmission and processing
- Stylish, low profile design with touchable interface
- Compliance with IEC 60914, GBT 15381-94
- Standard CAT5e and RJ45 connectors are used in CLEACON series to provide more convenient on project and maintenance.
- 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 achieves full-digital signal transmission and processing, completely avoiding 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*

- Compliance with IEC 60914, GBT 15381-94
- The unique AUDIO-LINK digital ring network technology achieves full-digital signal transmission and processing, completely avoiding 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

### *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

Connection: CAT5 / CAT6 cable + snap

Equivalent noise: 20dBA (SPL)

Main material: Aluminum Cover + ABS base

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

Weight: 0.9kg (with microphone)

Dimension: 120W × 140 L × 33H mm (without microphone)

Operating temperature: 0 °C to + 55 °C

Color: Black

## VIS-DOC-T/VIS-DOD-T

CAT5 Wired 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. The core uses VISSONIC digital network technology to maintain consistent excellence. Installation and use experience.

### *Features*

- The unique AUDIO-LINK digital ring network technology achieve full-digital signal transmission and processing
- Stylish, low profile design with physical button
- Compliance with IEC 60914, GBT 15381-94
- Standard CAT5e and RJ45 connectors are used in CLEACON series to provide more convenient on project and maintenance.
- 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 achieves full-digital signal transmission and processing, completely avoiding 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*

- Compliance with IEC 60914, GBT 15381-94

- The unique AUDIO-LINK digital ring network technology achieves full-digital signal transmission and processing, completely avoiding 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

Weight ..... 0.9kg

Dimensions (mm) ..... 122.5width × 150 depth × 58 height

***Item Model for Order***

VIS-DOC-T ..... All-digital network discussion chairman unit

VIS-DOD-T ..... All digital network discussion representative unit

VIS-DCP1000 ..... All Digital Network Conference System controller

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-M485 ..... 485mm microphone (black) with anti-wind foam cover

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

**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<br>(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 $\Omega$ |          |          |          |          |
| Working temperature | 0~45°C       |          |          |          |          |
| Storage temperature | -20~50°C     |          |          |          |          |
| Weight              | 88.5g        | 78g      | 72g      | 62g      | 58g      |
| 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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