

# **VISSONIC**

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Professional Audio Video Manufacturer

## **AV Record and Camera Tracking System**

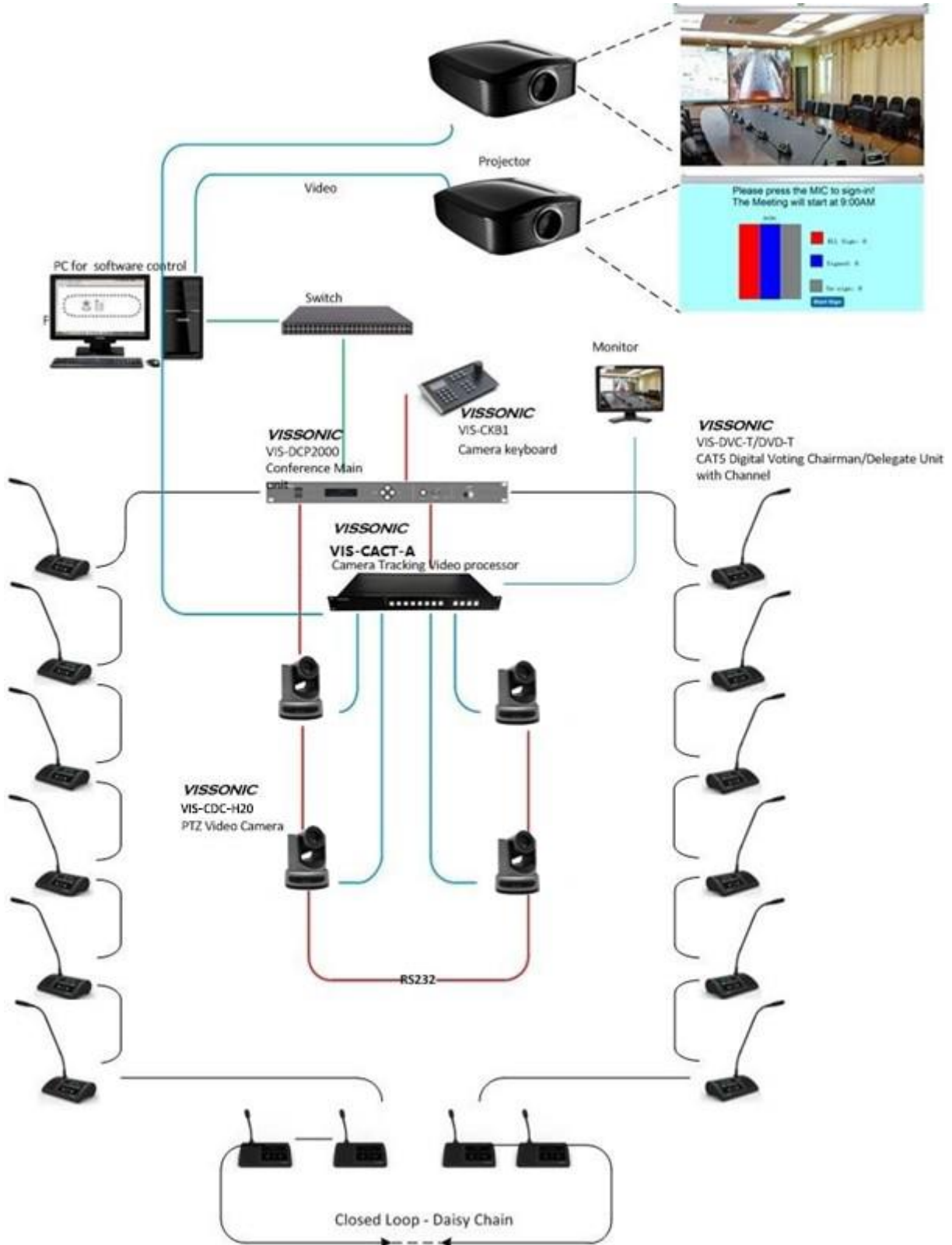
**PRODUCT DATASHEET**

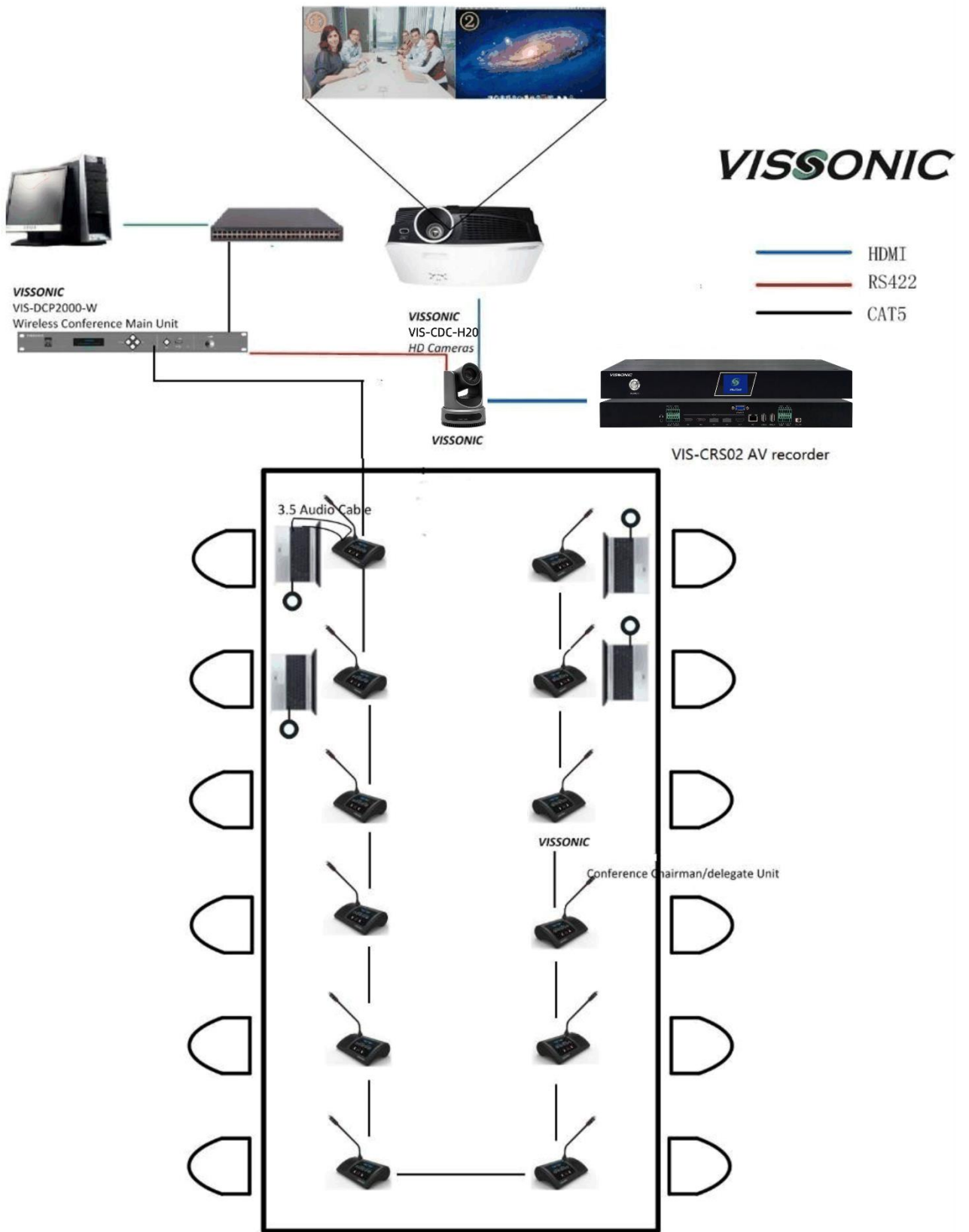


**VISSONIC ELECTRONICS LTD.**

**Think Solutions**

# Application diagram





## Audio/Video Conference Recording System

### VIS-CRS02/03/04-B

Professional AV Recorder and camera tracking



### Features

- Compact portable equipment, integrated high-definition video, audio, VGA, USB and other input and output interfaces.
- Support access HD and SD signals, automatic identification signal combined layout pattern of their choice, can be very convenient for video, audio and computer screen simultaneously recording signals and local preview playback.
- Recording and generating common MP4 video files.
- You can use PC manage and control system.
- HDMI, VGA dual output design. HDMI output video conference screen, VGA output directed interface.
- Working with conference controller DCP2000 to get the camera auto-tracking and recording system.
- Live broadcast under LAN or Ethernet.

### Control & Indicators

Front panel with display for system information

### Interface

- 1 × DC Power socket
- 2/3/4 × HDMI input
- 1 × HDMI output
- 1 × VGA output
- 2 × RS485
- 2 × RS232
- 2 × USB2.0
- 1 × Headphone jack of 3.5mm for monitoring
- 2 × AUDIO LINE IN, 2 × AUDIO LINE OUT
- 1 × RJ45 for Ethernet

### *Technical Parameter*

#### **Control**

RS485/RS232: 3 pins 3.8mm phoenix connector

RJ45 connector 100m TCP/IP protocol

#### **Others:**

Power supply: DC 12V 3A, adapter

Chassis Specifications: 1U

Size: 482 (L) × 270 (W) × 45 (H) mm

Weight: 2kg

### *Item Model for Order*

VIS-CDC-H20 20x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling Mount or wall mount bracket

VIS-CDC-H30 30x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling Mount or wall mount bracket

VIS-CKB1 .....Camera Control Keyboard (Metal housing, Grey, 3D)

## Audio/Video Conference Recording System

### VIS-CRS05-B

Professional AV Recorder and camera tracking



### Features

- Provide 5 channels of 4K video signal capture and encoding. It can realize 4K resolution from capture, recording to output.
- Up to 5 HDMI inputs and 4 HDMI outputs. HDMI output video conference screen.
- With 2-inch LCD screen, it can display recording and broadcasting status, channel status, network information, storage space and logo, etc.
- Compact portable equipment, integrated high-definition video, audio, USB and other input and output interfaces.
- Support access HD and SD signals, automatic identification signal combined layout pattern of their choice, can be very convenient for video, audio and computer screen simultaneously recording signals and local preview playback.
- Recording and generating common MP4 video files.
- You can use PC manage and control system.
- Working with conference controller DCP2000 to get the camera auto-tracking and recording system.
- Live broadcast under LAN or Ethernet.

### Control & Indicators

Front panel with display for system information

### Interface

- 1 × DC Power socket
- 5 × HDMI input
- 4 × HDMI output
- 2 × RS485
- 2 × RS232
- 2 × USB2.0, 1 × USB3.0, 1 × USB-OTG
- 1 × Headphone jack of 3.5mm for monitoring
- 2 × AUDIO LINE IN, 2 × AUDIO LINE OUT
- 1 × RJ45 for Ethernet

### *Technical Parameter*

**Control**

RS485/RS232: 3 pins 3.8mm phoenix connector

RJ45 connector 100m TCP/IP protocol

**Others:**

Power supply: DC 12V 3A, adapter

Chassis Specifications: 1U

Size: 482 (L) × 270 (W) × 45 (H) mm

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VIS-CKB1 .....Camera Control Keyboard (Metal housing, Grey, 3D)



## VIS-CATC-A

Camera Auto-tracking Controller



### Features

- 2 HDMI+ 4 HD/3G SDI input, 1+1 HDMI output.
- 6x1+1 seamless scaler switcher, maximum supported output resolution is 1080P@60Hz
- Seamless switching, no jitter, no blank screen.
- Adjustable image freezing function
- Web control function

### Functions:

- Turn on/off the channel number indicators
- 6x1 seamless scaler switcher, maximum supported output resolution is 1080P@60Hz,
- Seamless switching, no jitter, no blank screen.
- Adjustable image freezing function (freezing time from 1 to 6 seconds, freezing time cannot be less than 0.5 second or freezing function would be turned off).
- RS232 and Ethernet port to work with central controller or CLEACON series or CLASSIC-D series conference main unit for camera auto-tracking function.

### Interfaces

2x HDMI input  
 4x SDI input  
 2x HDMI-A  
 1x female DP9 and 1x male DP9  
 1xRJ45 for Ethernet

### Technical Parameters

#### Video Input

Signal format/Quantity .....HDMIx2  
 Connector ..... HDMI-A connectors  
 Pixel bandwidth ..... 165MHz  
 Protocol..... HDMI 1.3a standard, HDCP1.3 protocol, DVI1.0 protocol  
 Support resolution ..... 1280x720@50Hz;1280x720@60Hz;  
 1920x1080@25Hz; 1920x1080@30Hz; 1920x1080@50Hz;1920x1080@60Hz



Transmission distance..... less than 35m.

Signal format/Quantity .....SDIx4

Connector ..... BNC female connectors

Pixel bandwidth ..... 165MHz

Video format.....Mbps SDI, 1.485Gbps HD-SDI and 2.97Gbps 3G-SDI

Support resolution ..... 1280x720@50Hz;1280x720@60Hz;  
1920x1080@25Hz; 1920x1080@30Hz; 1920x1080@50Hz;1920x1080@60Hz

Transmission distance..... 3G-SDI≤100m with certified SDI professional cable.

### **Output**

Signal format/Quantity .....HDMIx2

Connector ..... HDMI-A connectors

Pixel bandwidth ..... 165MHz

Support resolution..... 1280x720x50Hz;1280x720x60Hz;

1920x1080x50Hz;1920x1080x25Hz;

1920x1080x30Hz;1920x1080ix50Hz;

1920x1080x60Hz;1920x1080ix60Hz;

Transmission distance..... HDMI≤7m with certified HDMI professional cable.

### **Control**

RS232 control

Ethernet control

Front panel control

### **Mechanical**

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

Weight ..... 3kg

Color .....black

## VIS-CATC-B

Camera Auto-tracking Controller



### Features

- 4 HD/3G SDI +2 HDMI input
- 1+1 HDMI output and one USB output.
- 6x1+1 seamless scaler switcher, maximum supported output resolution is 1080P@60Hz
- Seamless switching, no jitter, no blank screen.
- Adjustable image freezing function
- Bridging any high definition HDMI and audio source through USB into video conferencing applications such as Skype for Business, Zoom, Microsoft Teams

### Functions:

- Turn on/off the channel number indicators
- Display the speaker's name while showing the tracking image on the large screen
- 6x1 seamless scaler switcher, maximum supported output resolution is 1080P@60Hz
- Seamless switching, no jitter, no blank screen.
- Adjustable image freezing function (freezing time from 1 to 6 seconds, freezing time cannot be less than 0.5 second or freezing function would be turned off).
- RS232 and Ethernet port to work with central controller or CLEACON series or CLASSIC-D series conference main unit for camera auto-tracking function.

### Interfaces

- 1x RCA audio input
- 2x HDMI input
- 4x SDI input
- 2x HDMI-A output
- 1xUSB output
- 1x female DP9 and 1x male DP9
- 1xRJ45 for Ethernet

### Technical Parameters

#### Audio Input

Signal format/Quantity .....RCAx1

### Video Input

Signal format/Quantity .....HDMIx2  
Connector ..... HDMI-A connectors  
Pixel bandwidth ..... 165MHz  
Protocol..... HDMI 1.3a standard, HDCP1.3 protocol, DVI1.0 protocol  
Support resolution ..... 1280x720@50Hz;1280x720@60Hz;  
1920x1080@25Hz; 1920x1080@30Hz; 1920x1080@50Hz;1920x1080@60Hz  
Transmission distance..... less than 35m.

Signal format/Quantity .....SDIx4  
Connector ..... BNC female connectors  
Pixel bandwidth ..... 165MHz  
Video format.....Mbps SDI, 1.485Gbps HD-SDI and 2.97Gbps 3G-SDI  
Support resolution ..... 1280x720@50Hz;1280x720@60Hz;  
1920x1080@25Hz; 1920x1080@30Hz; 1920x1080@50Hz;1920x1080@60Hz  
Transmission distance..... 3G-SDI≤100m with certified SDI professional cable.

### Output

Signal format/Quantity .....HDMIx2  
Connector ..... HDMI-A connectors  
Pixel bandwidth ..... 165MHz  
Support resolution..... 1280x720x50Hz;1280x720x60Hz;  
1920x1080x50Hz;1920x1080x25Hz;  
1920x1080x30Hz;1920x1080ix50Hz;  
1920x1080x60Hz;1920x1080ix60Hz;  
Transmission distance..... HDMI≤7m with certified HDMI professional cable.

Signal format/Quantity .....USBx1  
Interface ..... USB2.0: Type A female jack

### Control

RS232 control  
Ethernet control  
Front panel control

### Mechanical

Dimensions (mm) .....483L x 260W x43.6D  
Weight ..... 3kg  
Color .....black

## VIS-CKB1

Camera Control Keyboard



### Features

- Metal Housing, computer keyboard design
- Support PELCO-D, PELCO-P, VISCA Protocols
- Chinese/English LCD, Key-pressing prompting voice available
- With three-dimensional joystick, can control the variable speed of the camera or Pan/Tilt
- Two-dimensional keyboard control, can be accurate to every speed level

### Functions

- Can control the camera or pan/tilt rotation, zoom, iris, focus and camera parameter setting
- Can control the camera or pan/tilt preset tour, pattern, absolute position, zoom operation, AUX operation and so on
- The common special function can be selectable
- Real time display the decoder and matrix's working status
- Short circuit protection, automatic recovery program design for communication port
- Multi interface control signals: RS485, RS422, RS232, can control max 256 unit of camera
- Max. communication distance: 1200 M (0.5mm twisted pairs)

### Control & Indicators

LCD display

Three-dimensional joystick

Channels selecting buttons

Function shortcut buttons

### Interface

1x RJ45 port

1xRS232 DP9 connector

1x 3 pins phoenix connector

### Technical Parameters

Communication Mode: RS-485 semi-duplex, RS-422 full-duplex, RS232 full-duplex

Baud Rate:1200/2400/4800/9600 bit/s

Interface: RJ45 network interface, RS232 standard jack, terminal

Voltage: DC12V

Power:5W

Display: LCD

Working Temperature:-10~+50°C

Working Humidity:10~90%(no-condensation)

Weight:1.5kg

Dimension:271(L)x181(W)x54(H)mm

***Item Model for Order***

VIS-CKB1 .....Camera Control Keyboard

(Metal housing, Grey, 3D)

VIS-CATC-A.....Camera Auto-tracking 4-Windows Processor

VIS-CDC-H20 20x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling

Mount or wall mount bracket

VIS-CDC-H30 30x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling

Mount or wall mount bracket

## VIS-CDC-H20/30

FHD PTZ Camera



### Features

- H.265 support  
H.265 encoding supports conference cameras, and can realize full HD 1080p/60fps video streaming through ultra-low bandwidth.
- 1080P Full HD and NDI®|HX (optional)  
Using a new generation of Panasonic's 1/2.8 inch high-quality high-definition CMOS sensor with 2.07 million effective pixels, it can achieve high-quality images with a maximum resolution of 1920x1080.
- Ultra high frame rate  
The output frame rate of 1080P is up to 60fps, the output frame rate of 720P is up to 120fps (only supported by the network), and 640x480P can be up to 240fps (only supported by the network, optional).
- AAC audio coding  
Supports AAC audio coding, with better sound quality and smaller bandwidth. EQ auto adjustment to reduce noise and support mic input.
- USB3.0 and various ports  
USB3.0 ports makes it can work with popular video conference software like teams, zoom. All type of video output ports including HDMI, 3G-SDI. Effective transmission distance up to 150 meters (1080p30 or less). HDMI, SDI, and network can be output simultaneously.
- The low light and high SNR of the CMOS sensor combined with 2D and 3D noise reduction algorithms effectively reduces the noise. Even under low illumination conditions, the picture can still be kept clear and clear.
- 20x Optical + 32x Digital Zoom Use TAMRON high quality super telephoto lens, support 20x optical zoom, and 32x digital, 30x Optical + 16x Digital Zoom (Model VIS-CDC-H30).
- Remote Control  
Using RS232/485 interface, all the parameters of the camera can be remote controlled by the high-speed communications. LAN port with VISCA over IP control feature.

### Item Model for Order

VIS-CDC-H20 20x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling Mount or wall mount bracket

VIS-CDC-H30 30x optical zoom, USB3.0, HDMI, SDI, can choose Ceiling Mount or wall mount bracket



## Specification

<b>VIS-CDC-H20/ VIS-CDC-H30</b>	
Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/120 (supported by network only), 720p/60, 720p/50, 720p/30, 720p/25, 640x480p/240 (supported by network only, optional) SD: 480i, 576i
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8, or 30x, f4.3mm ~ 129.0mm, F1.8 ~ F2.8(Model VIS-CDC-H30)
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	60.7°~ 3.36°
Vertical Angle of View	34.1°~ 1.89°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30°~ +90°
Pan Speed Range	1.7°~ 100°/s
Tilt Speed Range	1.7°~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
Local Storage	Support
Number of Preset	255
Preset Accuracy	0.1°
<b>USB Featured</b>	
Operate System	Windows 10 or higher, Windows 7, Windows 8, Mac OS X, Linux
Color System	YUV 4:2:2/MJPEG/H.264
Video Format	USB3.0 : 1080p/60, 1080p/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 USB2.0 : USB2.0:960x540p/30, 960x540p/25, 640x360p/60, 640x360p/50

USB Video Communication Protocol	UVC 1.0
UVC PTZ	Support
<b>IPC Features</b>	
Video Compression	H.265/H.264/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	720x576, 720x480, 320x240
Video Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps, 720p120: 120fps, 640x480p240: 240fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	NDI, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
<b>Input/Output Interface</b>	
HD Output	1xHDMI: Version 1.3 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
SD Output	1xCVBS: 3.5mm mini jack, 1Vp-p, 75Ω
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	1xUSB3.0: Type A female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)
<b>Generic Specification</b>	
Input Voltage	DC 12V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
MBTF	≥30000 hours

Power Consumption	12W (Max)
Size	169mm x 142mm x 164mm
Net Weight	1.35Kg (3.0lb)

## 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.



4/F, Building G7, No. 31 Kefeng Road, Huangpu district, Guangzhou, China

• Tel: +86-020-82515140 • E-mail: [info@vissonic.com](mailto:info@vissonic.com)

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