VISSONIC

AV Record and Camera Tracking System

PRODUCT DATASHEET

VISSONIC ELECTRONICS LTD.

Think Solutions

Application diagram

VISSONIC
VIS-DCP2000-W
Wireless Conference Main Unit

VISSONIC

———— HDMI

———— RS422

———— CAT5

VISSONIC
VIS-HDC-12-U-W
HD Cameras

VIS-CRS02 AV recorder

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3.5 Audio Cable

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Conference Chairman/delegate Unit
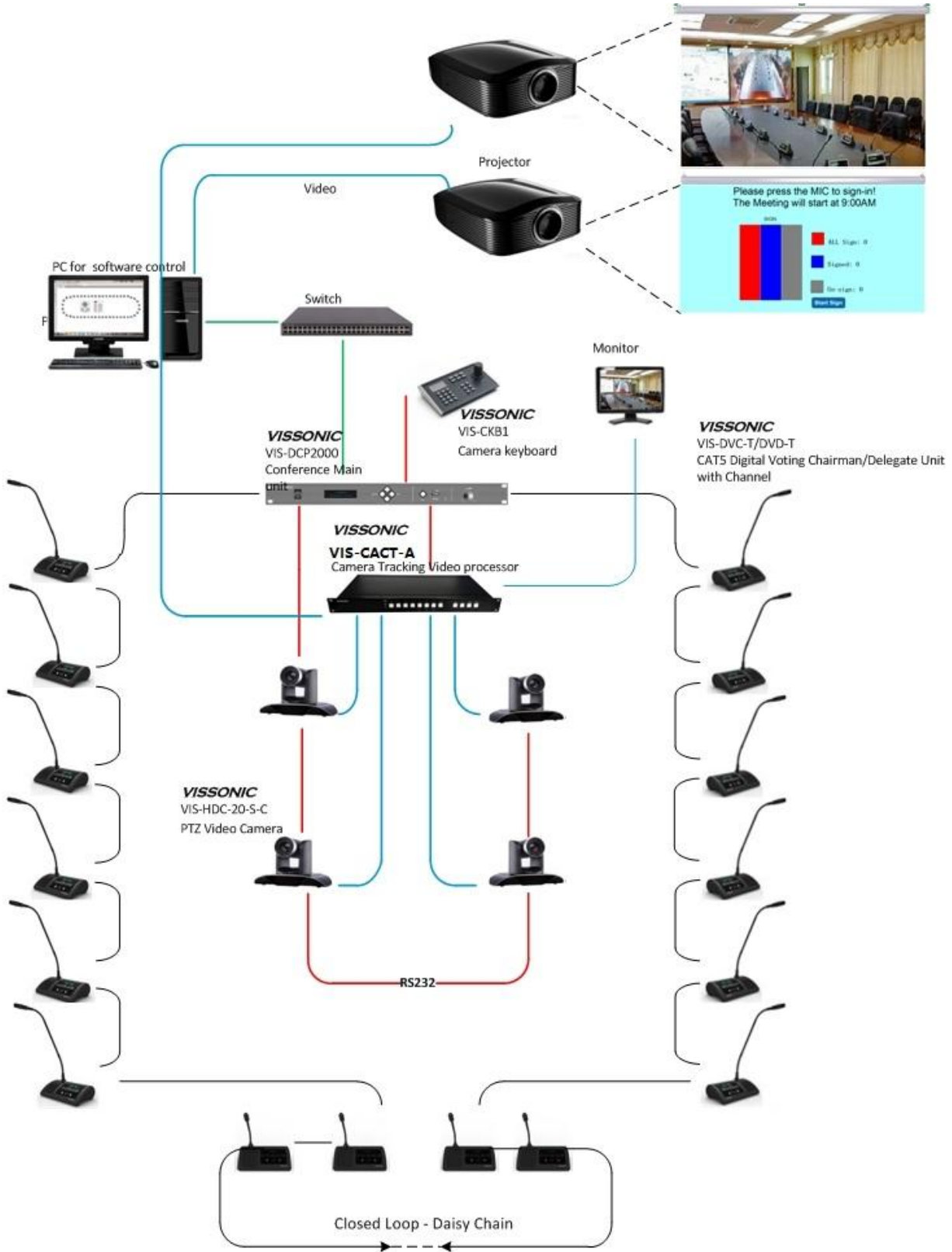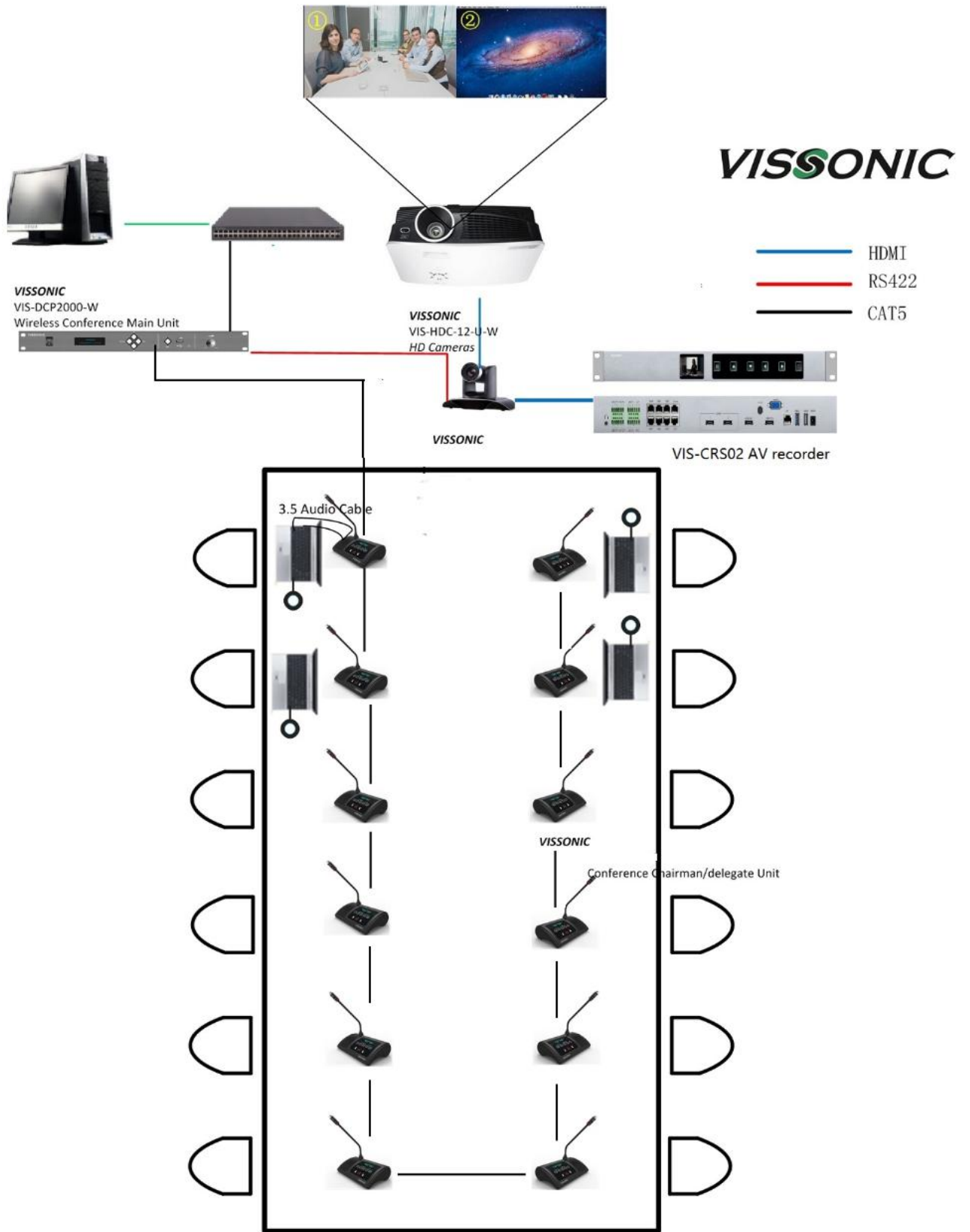
Audio/Video Conference Recording System

VIS-CRS02/03/05-A

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

LCD display for setting and switching information
4 buttons for menu setting
4 video selection buttons

Interface

1x DC Power socket
2/3/5x HDMI input
2xHDMI output
1xDVI output
7xRS485 input
1xRS485 for keyboard
1xRS422&RS232
1xDB9 female for conference system
1xDB9 male for control system
1xRJ45 for Ethernet

Technical Parameters

DVI Input

Signal format/quantity: DVI-D/2

Connector: DVI-D

Pixel bandwidth:165MHz

Impedance: Differential 100Ω

Resolution:800x600 / 60HZ to 1920x1080 / 60HZ

Transmission distance: <35m

SDI Input

Signal format/quantity: SDI/2

Connector: BNC female connectors

Pixel bandwidth 165MHz

Video format:270Mbps SDI,1.485Gbps HD-SDI

and 2.97 Gbps 3G-SDI

Support resolution:1280x720@50Hz~1920x1080@60Hz

Transmission distance:3G-SDI<100m, recommend certified SDI professional wire

DVI video Output

Signal format/quantity: DVI-D/1

Connector: DVI-D

Pixel bandwidth:165Mhz

Support resolution:800x600@60Hz~1920x1080@60Hz

Transmission distance:<7m

Control

RS-422/RS232: 5 pins 3.8mm phoenix connector, RS-422:1=RX+,2=RX-,3=GND,4=TX+,5=TX-

RS-232:1=RX,3=GND,4=TX

Keyboard control:5 pins 3.8mm phoenix connector, RS-485:1=TX+,2=GND,3=TX-

RJ45 connector 100m TCP/IP protocol

Others:

power supply: AC 90-240V / 50-60HZ

Chassis Specifications:1U

Size:482 (L) x 200 (W) x45 (H) mm

Weight:2Kg

Item Model for Order

VIS-CRS02-A 2x HDMI input Professional AV Recorder and camera tracking

VIS-CRS03-A 3x HDMI input Professional AV Recorder and camera tracking

VIS-CRS05-A 5x HDMI input Professional AV Recorder and camera tracking

VIS-CDC-S 20x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount

VIS-CDC-30-S 30x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount

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

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Full Digital Networked DSP Conference System

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 …………………………270Mbps 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
- 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 …………………………270Mbps 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

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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℃

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-S 20x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount

VIS-CDC-30-S 30x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount

VIS-CDC Series

Full HD 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
  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.
- Local storage
  supports local storage module, without NVR recording directly to local USB flash drive.
- 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.
- Various interface, support HDMI output, 3G-SDI interface, effective transmission distance up to 150 meters (1080p30 or less). HDMI, SDI, and network can be output simultaneously. It also supports CVBS interface.
- 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-30-S)
- Remote Control
  Using RS232/485 interface, all the parameters of the camera can be remote controlled by the high-speed communications.

Item Model for Order

Model VIS-CDC-S 20x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount
Model VIS-CDC-30-S 30x optical zoom, USB2.0, HDMI, 3G-SDI, LAN, Ceiling Mount

Specification

VIS-CDC-S, VIS-CDC-30-S	
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-30-S)
Digital Zoom	32x (optional)，16x(optional Model VIS-CDC-30-S)
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
Face Detection	Support (optional)
Local Storage	Support
Number of Preset	255
Preset Accuracy	0.1°
USB Featured	
Operate System	Windows XP, Windows Vista, Windows 7, Windows 8, Mac OS X, Linux
Color System	YUV 4:2:2
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

IPC Features

Video Compression	H.265/H.264/MJEPG
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	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Input/Output Interface

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	1xUSB2.0: 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)

Generic Specification

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.

VISSONIC

4/F, Building 6, No. 50 Nanxiang 1st Road, Huangpu district, Guangzhou, China
• Tel: +86-020-82515140 • E-mail: info@vissonic.com
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