

# **VISSONIC**

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Professional Audio Video Manufacturer

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

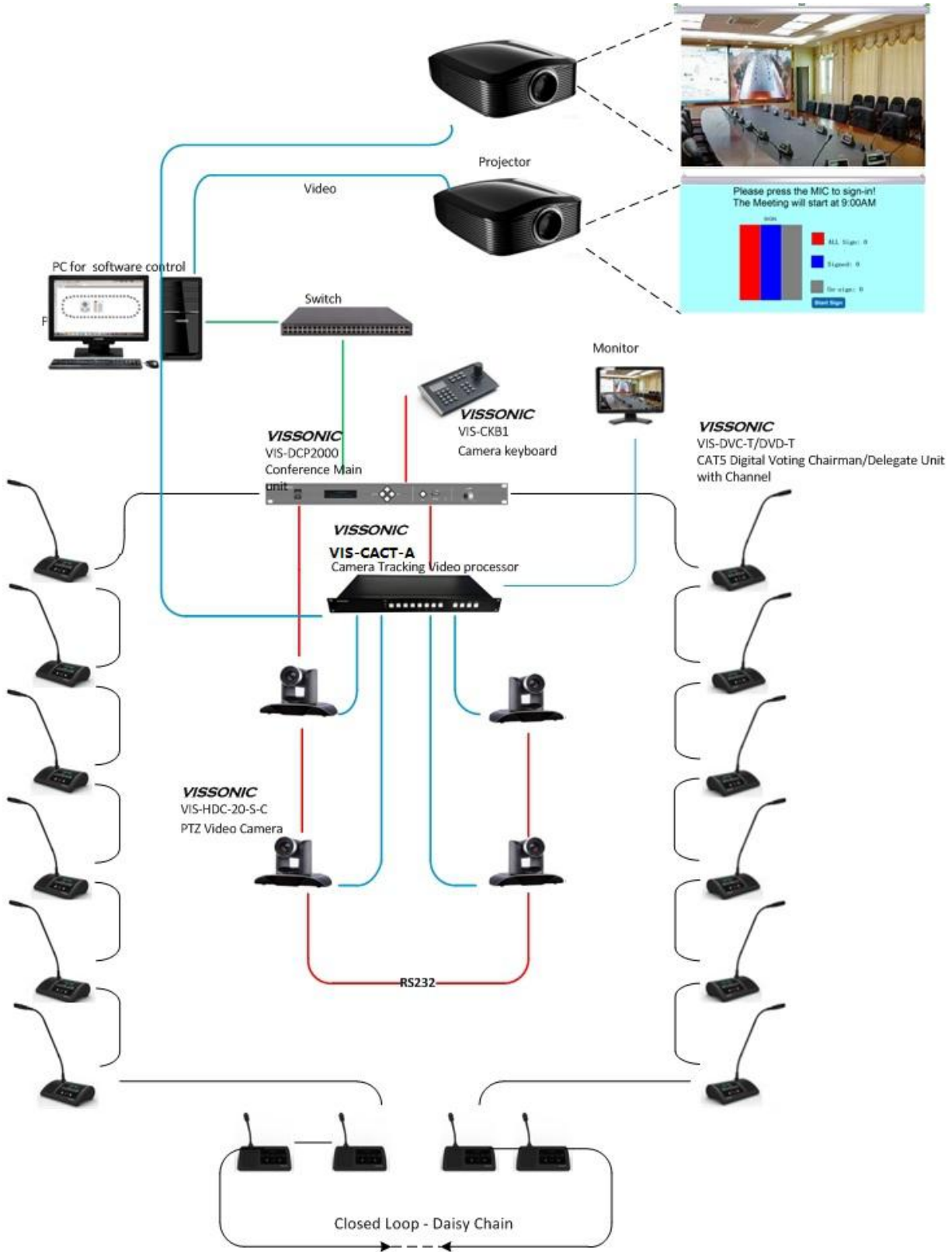
**PRODUCT DATASHEET**

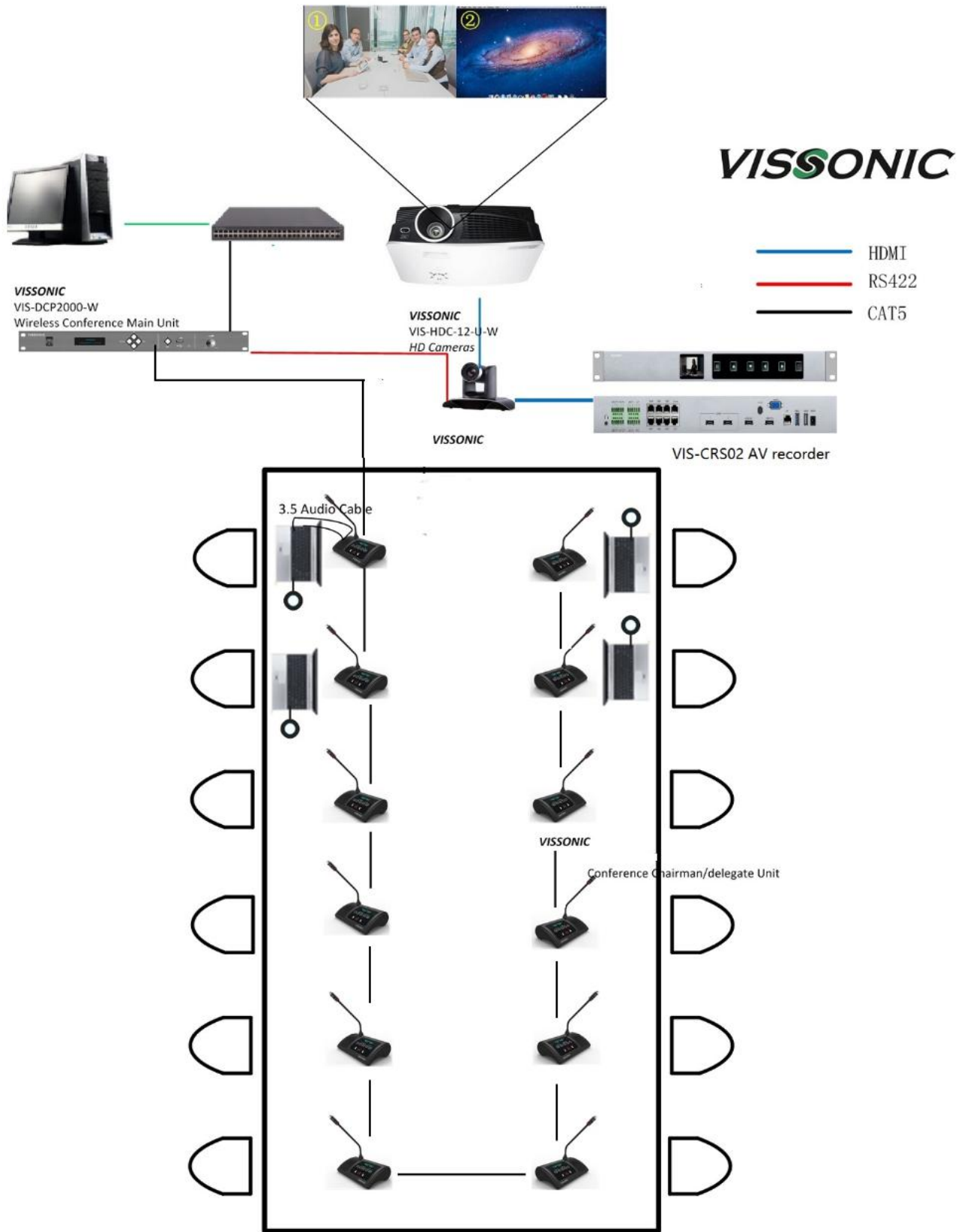


**VISSONIC ELECTRONICS LTD.**

**Think Solutions**

# Application diagram





## Audio/Video Conference Recording System

### VIS-CRS02/03/05A

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-HDC-12-S-C.....HD PTZ CAMERA (12x optical zoom, 3G-SDI, DVI(HDMI), LAN, Ceiling mount bracket)  
VIS-HDC-12-S-W.....HD PTZ CAMERA (12x optical zoom, 3G-SDI, DVI(HDMI), LAN, Wall mount bracket)  
VIS-HDC-20-S-C.....HD PTZ CAMERA (20x optical zoom, 3G-SDI, DVI(HDMI), LAN, Ceiling mount bracket)  
VIS-HDC-20-S-W.....HD PTZ CAMERA (20x optical zoom, 3G-SDI, DVI(HDMI), LAN, Wall mount bracket)  
VIS-CKB1..... Camera Control Keyboard (Metal housing, Grey,3D)

## VIS-CATC-A

Camera Auto-tracking Controller



### Features

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

### Functions:

- Turn on/off the channel number indicators
- 4x1 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 port to work with central controller or CLEACON series or CLASSIC-D series conference main unit for camera auto-tracking function.

### Interfaces

4x SDI input  
2x HDMI-A  
1x female DP9

### Technical Parameters

#### Input

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  
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-U 20x optical zoom, USB3.0, HDMI, LAN, Ceiling Mount

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-U 20x optical zoom, USB3.0, HDMI, LAN, Ceiling Mount

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		VIS-CDC-U
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°	
<b>USB Featured</b>		
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	
<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	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	1xHDMI: Version 1.3
SD Output	1xCVBS: 3.5mm mini jack, 1Vp-p, 75Ω	None
Network Interface	1xRJ45: 10M/100M Ethernet Interface	
Audio Interface	1-ch: 3.5mm Audio Interface, Line In	
USB	1xUSB2.0: Type A female jack	1xUSB3.0: Type B female jack 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)	
<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.



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