Huawei VP9050

Executive Desktop HD Videoconference Endpoint

The VP9050 is a high-end desktop High Definition videoconferencing endpoint with 4-site embedded MCU. It is integrated with the Full HD(1080p) digital camera, high-fidelity (Hi-Fi) sound box, HD microphone and 21.5-inch widescreen LCD via Touch Screen. With an elegant and sleek design, it will surely provide you unprecedented audiovisual experience.

Superb HD Video, Audio quality and Content sharing experience

Superb Video Quality

HUAWEI VP9050 uses Huawei proprietary technologies, such as VideoIntensifier and ViewProcessing. In addition to the latest H.263 and H.264 coding and decoding technology, the VP9050 supports H.264 1080p HD video format and 64Kbps~4Mbps conference access rate and provides the high-quality video effect.

Superior Audio Effect

Embedded with 2 microphones and stereo sound box, and by using the AAC-LD broad band audio, the VP9050 provides you hi-fi (high fidelity) stereo audio. The VP9050 adopts the most advanced technologies, such as acoustic echo cancellation (AEC), automatic gain control (AGC), acoustic noise suppression (ANS), and provides clearer full duplex digital audio effect.

High Definition Content Sharing

The VP9050 supports the standard H.239 protocol, so that it can transmit two separated channels of video bit streams. By using the intelligent dual stream technology, the bandwidth of the main stream and the auxiliary stream can be adjusted automatically. Thus, the video and conference contents can be sent and received at the same time, such as PPT, WORD, Flash, Living videos, etc, which makes collaboration works more convenient and economical.

Elegant Design, Easy operation and multitask function

Huawei VP9050 is visually appealing. Elegant design and fuscous motifs, which provides the high-end a steady-going but refined, friendly and stylish appearance, also vivid hi-tech style. You will love it.

Easy of use is a long time obstacle for videoconference industry and people hate that complicated and dull remote control. With a redesigned innovative remote, trendy, neat and well organized touch screen GUI, Huawei VP9050 is standing out of competition.

The VP9050 can be used as Videoconferencing Endpoint and PC display meantime. It provides multiple display modes, such as full screen, picture-in-picture, picture-outside-picture. In addition, it supports multiple display modes of 16:9 and 4:3. the VP9050 can automatically adapt to the display device according to the video resolution to meet your different kinds of requirements.

QoS and Secure videoconferencing

IP technology is evolving, but there are always times that the live video quality is undermined due to QoS issues. With Huawei SEC (super error concealment) and IRC (intelligent rate control) technology, Huawei VP9050 is able to keep producing good video quality even if there are significant packet loss, latency and jitter over the network link.

Worrying about security of your videoconference call? Huawei VP9050 adopts standard-based H.235 and AES encryption techniques to ensure that your videoconference call is well protected from malicious hacking and sniffing. The device configuration and setup is locked by admin password to avoid any misplay.

VP9050 Specification

Models
• VP9050

Embedded MCU
• up to 4 HD 720P video endpoints + 3 voice terminals to join the conference.
• The embedded MCU supports CP, voice activation, camera control, and chairman token.
• two lever cascading
• Mixed H.323 and SIP

Video Standard & Protocols
• H.264, H.263, H.263+, H.261
• ITU-T H.239
• VME (Video Motion Enhancement)

People Video Resolution
• 1080p(optional), 720p, 4CIF/4SIF
• 1080p 30fps(optional), 720p 50/60fps (optional), 720p 30fps
• 512kbps for 720p 30fps
• 768kbp for720p 50/60fps
• 1Mbps for 1080p 30fps
• VideoIntensifier
• ViewProcessing

Camera
• Embedded High Quality CMOS Camera
• Video Capture Resolution: 1080p
• Automatic Exposure(AE), Automatic White Balance (AWB)
• Manual Picture Parameters Control
• Rotatable
• Private Protection Switch

Display
• 21.5 Inch 16:9 LCD
• Resolution: 1080p
• Luminance: >200cd/m2
• Response Time: <5ms
• View Angle:
  -Horizontal: 70 degree
  -Vertical: 65 degree
• Contrast: 700
• Luminance, Contrast Control, Rotatable
• Support External Source Input

Sound System
• 2xEmbedded Mics, Support External Mics
• 2xEmbedded Stereo Loudspeakers

Content Video Resolution
• SXGA(1280x1024) , XGA(1024x768)
• SVGA(800x600) , VGA(640x480)

Audio Standard & Protocols
• AAC-LD Stereo, G.722, G.711, G.728
• HWA-LD Stereo : Huawei Audio Broadband Low Delay Stereo
• Acoustic Echo Cancellation (AEC)
• Acoustic Noise Suppression (ANS) 12 dB
• Automatic Gain Control (AGC) ± 6 dB
• VoiceClear
• AudioEnhancer
• Audio-Lip Synchronization

Other ITU-Supported Standards
• H.221, H.225, H.230, H.231, H.233, H.234, H.235, H.241, H.242, H.243, H.245, H.281, H.283, H.350, H.460, T.140

Network
• Communication Standards: ITU-T H.323, IETF SIP
• Network Standards: TCP/IP, FTP, DHCP, SNMP, Telnet, HTTP , HTTPS, PPPoE, RTP, RTCP
• Interface:
  -1-port IP, 10/100 Base-T, 2xRJ45 connectors
  -1-port wireless (WCDMA, CDMA2000 EV-DO), USB connectors
• Bandwidth
  -IP: 64kbps~4Mbps
  -IP: Total 8Mbps (available: Supports up to 4 HD video endpoints + 3 voice terminals to join the conference)

Interface
• Audio Input Interfaces
  -1x3.5mm line in jack
  -1x3.5mm mic jack
• Audio Output Interfaces
  -1x3.5mm earphone jack
  -1x3.5mm line out jack
• Video Input Interface
  -1xDVI / YPbPr / VGA
Video Output Interface
  -1xDVI / YPbPr / VGA
• 1xUSB ports

Security
• H.235 signaling and media stream encryption
• AES media stream encryption
• Conference access password
• Conference control password
• Administrator password
• H.323 ID and number binding
• IP address and number binding

Language
• Simplified Chinese, Traditional Chinese, English, German, Spanish, French, Norwegian, Italian, Polish, Russian, Portuguese, Hungarian, Finnish, Romanian, Czechic, Swedish, Arabic, Turkish, Greek

Special Features
• Screen Touch and Remote Control
• Hybrid with IMS Network
• Site Call
• Domain Name/Email Registration & Call
• Content Locking
• Web Image Monitor, 1080p(optional) / 720p Picture Capture
• Automatic Adjustment for Active Content and Picture
• HD Desktop Display/Active Image
• 16:9 and 4:3 Automatic Adaption
• Picture-in-picture, Bi-screen and tri-screen split display
• Function Icon, Power On Picture/ Music, Remote Control
• Group Function/Address book Import and Export, LDAP, Network Address book
• API for integration
• Intelligent rate control (IRC)
• Super error concealment (SEC)

• Loss Packet Retransmission
• SNP/H.460/Static NAT traversal between the public network and private network

Digital Caption
• Active Caption, Automatic Adjustment
• What-you-see-is-what-you-get (WYSIWYG) caption editing
• Caption rolling mode setting
• Modifiable and optional front , background color and Alpha
• 16 optional colors
• Support T.140 Protocol

Maintenance Management
• Web Management
  -Embedded Web server, Support IE 6.0 / 7.0 / FireFox 2.x
  -Multi-user Access Control
  -Address Book Management
  -Terminal Network Management
  -Calling Record
  -Fault Diagnosis
• Terminal Network Management: SNMP
• Telnet: command line mode; providing user level and administrator-level login accounts
• Remote Control: GUI interface
• Local and remote loopback
• Test signals: providing test sound and standard test stripes
• Local and remote software upgrades
• IP Network Diagnosis: PING, Packet Loss, Delay, Jitter / Fire Wall Ports Detection
• Volume Input Indication
• Network Packet Loss Indication
• Event Log Record
• Configuration Import / Export
• Factory Default Setting Restoring
• Automatic Sleep Mode
• Power/Working Indicating LED

Electrical
• Working voltage: 100-240V AC
• Working frequency: 50-60Hz
• Power consumption: 100W

Environmental Specification
• Operating Temperature: 0-40°C
• Operating Humidity: 10-80% Non-Operating Temperature: -40°-85°C
• Non-Operating Humidity (Non-condensing): 0-95%
• Peripheral noise: < 46 dBA SPL
• Lowest illuminance: 15 lux
• Recommended illuminance: > 300 lux
• Physical Characteristics
• CodecDimensions(LxWxH): 542mmx114mmx490mm
• Package Dimensions(LxWxH): 685mmx269mmx685mm
• Weight: 8.2 kg

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