AP-HCC500 Full HD One(1) Channel Video Conference Codec

High Performance Full HD Video Conference Solution



Preliminary Product Overview

(Without notice, following described technical spec. can be changed)



AP-HDC100 Full HD Camera



AddPac Technology

Sales and Marketing

AP-HCC500 Full HD Video Codec

AP-MP100 AEC Microphone

www.addpac.com

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- Hardware Specification
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- AEC Microphone
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Product Overview

AP-HCC500 Full HD Video Conference Codec

- IP based Video Conference Solution
- High-End Full HD Video Conference Codec Features
- Single Channel Full HD Video Conference Codec
- External Full HD Video Conference Camera (ex: AP-HDC100)
 - CMOS Sensor, 2Mega Pixel Camera
 - Various Video Format Support (ex;1080i/59.94)
 - PAN/TILT/Zoom Housing Features
 - Optical 10 x Zoom, Digital 12 x Zoom Camera
 - Built-in Wide Angle Lens for Video Conference
- External Acoustic Echo Canceller Microphone (AP-MP100)
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection



Product Highlights

AP-HCC500 Full HD Video Conference Codec

Full High Definition Video Conferencing & V²oIP Telephony

Full HD A/V Broadcasting, etc Various Application Service

High-quality Image Full HD 1080p , 30fps Up to 12Mbps

Excellent Voice Quality G.722I.1/G.722/G.711/G.726, etc

High Performance RISC CPU & Programmable DSP

Full HDTV Display Interface, Various I/O Interface



State-of-art Signaling H.323, SIP Dual Stack

APOS[™]Technology Multimedia Network Protocol

Video Conference Controller Interworking (IP Phone)

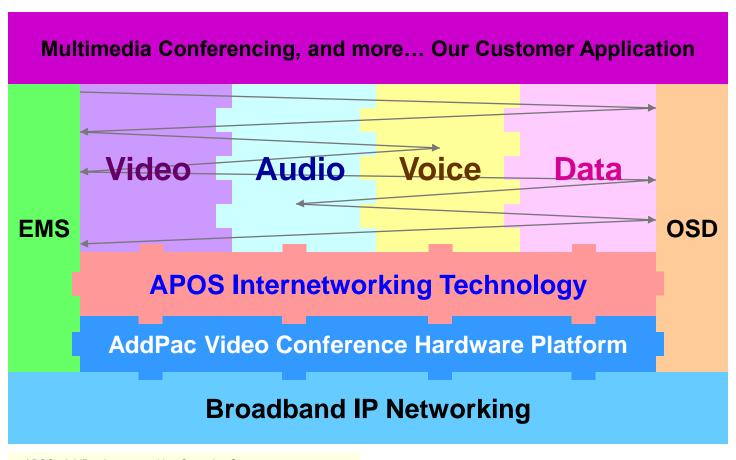
IP based Network Protocol & Video/Voice Traffic QoS

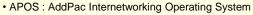
High-end Video Codec H.264, MPEG4, etc Broadband IP Networking with one(1) 10/100/1000Mbps Gigabit Ethernet



Multimedia Service

AP-HCC500 Full HD Video Conference Codec





• OSD : On- Screen Display

• EMS: Element Management System



Benefits and Features

AP-HCC500 Full HD Video Conference Codec

- Various Video Input/Output Interface
 - Composite (RCA), Component (Y, Pb, Pr), HDMI, HD-SDI
- High-performance Video Codec Support
 - H.264, MPEG4, etc
- Powerful Image Resolution Support
 - CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480),
 4CIF(704x576), 720P(1280x720), 1080p(1920x1080)
- Up to 30fps with Full HD-Resolution(H.264)
- Video Conference Call Support (External MCU)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



Hardware Specification (AP-HCC500 Full HD Codec)



Hardware Specification

AP-HCC500 Full HD Video Conference Codec

High Performance CPU



- High Performance RISC Computing Power
- High-end Programmable DSP Hardware Architecture
- Video I/O Interface

Video Input	External Full HD Video Camera, Composite RCA, HD-SDI, RGB, HDMI
Video Output	Composite RCA, Component , HDMI
Audio Input	Stereo RCA Type Audio Input
Audio Output	RCA Type Audio Output (Left, Right)
PTZ Control	RS-232C Pan/Tilt/Zoom Control Interface



Hardware Specification

AP-HCC500 Full HD Video Conference Codec





- Network Interface
 - One(1) 10/100/1000Mbps Giga Ethernet(RJ45)
 - One(1) RS-232C Interface (RJ45) for Console
- USB Interface
 - USB 2.0 Interface for Mouse, etc
- Voice Interface
 - FXS Interface for Analog Phone, Analog Conference Phone, etc
- External Power Input Connector
- External IrDA Connector
- Power On/Off Switch



Full HD Video Conference Camera



HD Video Conference Camera

AP-HCC500 Full HD Video Conference Codec

Full HD Camera Specification

- High-end CMOS Camera Sensor
- 2Mega Pixel
- HD: 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, etc
- Auto Focus 10 x Optical Zoom, 12 x Digital Zoom
- Wide Angle Lens for Video Conference Application
- PELCO-D Control Protocol
- Position Preset



HD Video Conference Camera

AP-HCC500 Full HD Video Conference Codec

Product	AP-HDC50	AP-HDC100	AP-HDC200	AP-HDC300	AP-HDC350
Sensor	CCD	CMOS	CCD	CMOS	CMOS
Optical Zoom	x18	x10	x18	x10	x20
Video Resolution	HD 720P(1280x720)	Full HD 720P, 1080i	HD 720P(1280x720)	Full HD 720P, 1080i	Full HD 720P, 1080i, 1080p
Video Output	HDMI, HD-SDI, Component, RCA				
PTZ Control	Support	Support	Support	Support	Support
PTZ Control Interface	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
Power	External Power Adaptor				



Hardware Specification

AP-HCC500 Full HD Video Conference Codec



Front Side



IR Sensor & Status Indication Area

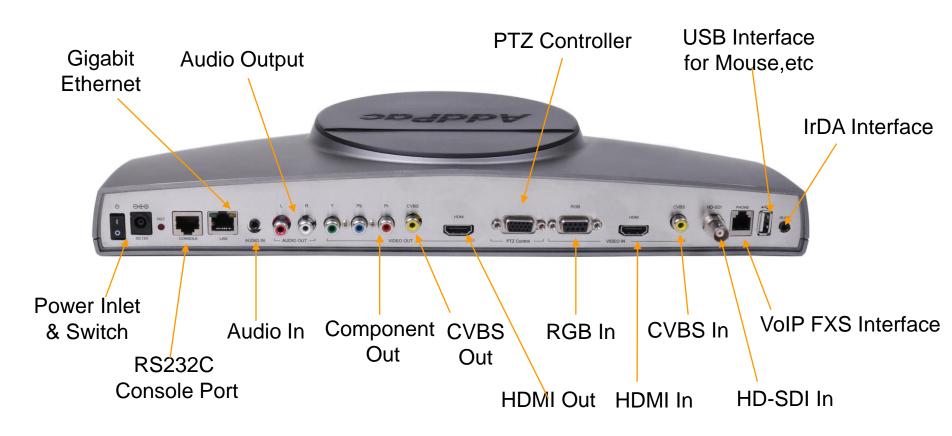


Hardware Specification

AP-HCC500 Full HD Video Conference Codec

High Performance CPLL High-end DSP

Back Side





Software Service

AP-HCC500 Full HD Video Conference Codec

- Built-in APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- Programmable Video, Audio, and Voice Services
 - Video Codes, Audio, and Voice Codec
- Firmware Upgradeable Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features





Network Service and Features

AP-HCC500 Full HD Video Conference Codec

Basic Routing

- Static Routing (IPv4)
- Static / DHCP / PPPoE
- VRRP (Virtual Redundancy Routing Protocol)

Network Management

- SNMPv2/SNMPv3 Support
- Standard & Enterprise SNMP MIB Support
- Web Based Management using HTTP/HTTPS
- Console / Telnet / Rlogin / SSH Interface

Security Function

- Standard & Extended IP Access List
- HTTPS / SSH Interface
- Auto-disconnect Telnet/Console Session
- Access Control for Local Service (FTP/Telnet/HTTP.)
- Enable/Disable Network Services
- Multi-Level User Account Management



Network Service and Features

AP-HVC500 Full HD Video Conference Codec

Operation & Management

- Configuration Backup & Restore for APOS Managements
- Use Multiple APOS[™] and Configuration
- Auto Upgrade via HTTP/HTTPS
- Debugging, System Auditing, and Diagnostics Support
- FTP/TFTP/Telnet/SSH Server and Client
- HTTP Server
- Remote logging using Syslog
- Local System Logging (Local HDD model)
- RADIUS Authentication / Account

Other Scalability Features

- Network time Protocol (NTP) Support
- Cisco Style Command Line Interface (CLI)
- DHCP Server & Relay Functions
- DNS Server



OSD Software Overview



Contents

- Menu Control Mode
- Dial Mode
- Conversation View Mode
- Display Layout Call Mode
- Key Pad Mode for Dialing Number
- Phone Book OSD
- Phone Book : New Contact
- Recent Call OSD
- Tools OSD Mode
- Codec Configuration : IP address, etc
- Status Bars OSD
- PTZ Control OSD



Menu Control Mode

Keypad, Phonebook, Recent Call, PTZ Control, Tools, Layout, Configuration



ICON

Function Key List for Soft-key

Dialing OSD





Conversation View Mode



Remote Site View PIP: Local Site View



Conversation View Mode



Remote Site Full Screen View



Display Layout Control Mode





KeyPad Menu for Dialing Number





Phone Book OSD Menu





Phone Book OSD Menu: New Contact





Recent Call OSD Menu





Tools OSD Menu





Codec Configuration





Status Indication Bars OSD





PTZ Control: Camera #1





PTZ Control: Camera Select





PTZ Control: Preset Setting





AP-HCC500 Full HD Video Conference Codec

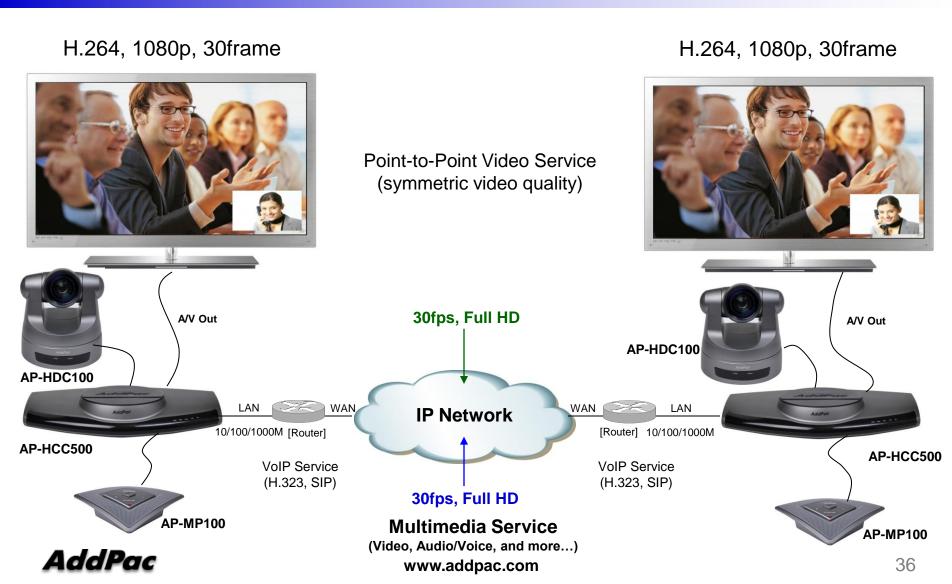
Application Area

- Audio/Video Real-time Broadcasting
- Video Telephony
- Video Conference



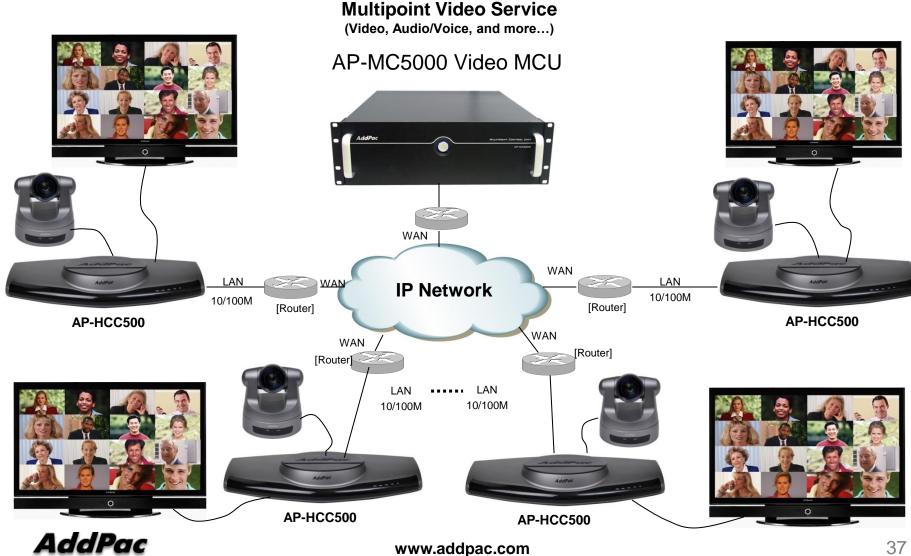
Video Telephony Application

AP-HCC500 Full HD Video Conference Codec



Video Conference

AP-HCC500 Full HD Video Conference Codec



Ordering Information

- AP-HCC500 Full HD Video Conference Codec
 - AP-HCC500 Full HD Video Conference Codec
 - Including Network Cable Set & Power Supply Cable, etc.
 - Option : Video Conference HD Camera, Microphone
- Built-in APOS Internetworking Software for AP-HCC500
- Including 1 Year Hardware Warranty
- Product Documents
 - Install and Operation Guide (PDF)
- Pricing
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com



Thank you!

AddPac Technology Co., Ltd. Sales and Marketing

Phone +82.2.568.3848 (KOREA) FAX +82.2.568.3847 (KOREA) E-mail sales@addpac.com

