AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Equipment

High Performance Full HD Video Conference Solution



Product Overview

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



AddPac Technology

Sales and Marketing

www.addpac.com

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- Product Overview
- Benefits and Features
- Hardware Specification
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- Multimedia Service
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- Application Area
- Ordering Information



Product Overview

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Coded

- IP based Video Conference Solution
- High-End Full HD Video Camera Features
- 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
- Two(2) Channel Video Interface
- 4-Party Full HD MCU Built-in
- Second Video Interface for Document Sharing, Camera, etc.
- 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-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Coded

Full High Definition Video Conferencing & V²oIP Telephony

4-Party MCU Built-In, Various Application Service

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

Full HDTV Display Interface, Various I/O Interface

APOS[™]Technology Multimedia Network Protocol

IP based Network Protocol & Video/Voice Traffic QoS



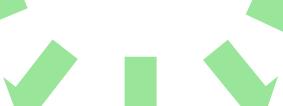
High-quality Image Full HD 1080i, 30fps Up to 12Mbps



High Performance RISC CPU & Programmable DSP



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



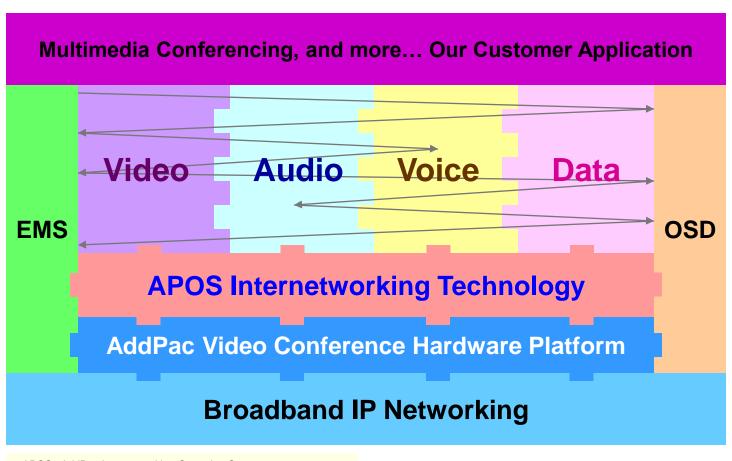
High-end Video Codec H.264, MPEG4, H.263, etc Video Conference Controller Interworking (IP Phone)

Broadband IP Networking with one(1) 10/100/1000Mbps Gigabit Ethernet



Multimedia Service

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codeo



- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS: Element Management System



Benefits and Features

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Code

- Various Video Input/Output Interface
 - Composite (RCA), Component (Y, Pb, Pr), HDMI
- High-performance Video Codec Support
 - H.264, MPEG4, H.263, etc
- Powerful Image Resolution Support
 - CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480),
 4CIF(704x576), 720P(1280x720), 1080i(1920x1080)
- Up to 30fps with Full HD-Resolution(H.264)
- 4-Party Full HD MCU Built-In
- 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-HVC2000 Full HD Codec)





Hardware Specification

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codec

- High Performance RISC Computing Power
- High-end Programmable DSP Hardware Architecture
- CH#1 I/O Interface

Video Input	Built-in Full HD Camera
Video Output	Composite RCA, Component , HDMI
Audio Input	Stereo RCA Type Audio Input
Audio Output	RCA Type Audio Output (Left, Right)

CH#2 I/O Interface

Video Input	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-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codec

- High-end Programmable DSP Hardware Architecture
- Network Interface
 - One(1) 10/100/1000Mbps Gigabit 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
- Power On/Off Switch







AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codeo

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







AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codeo



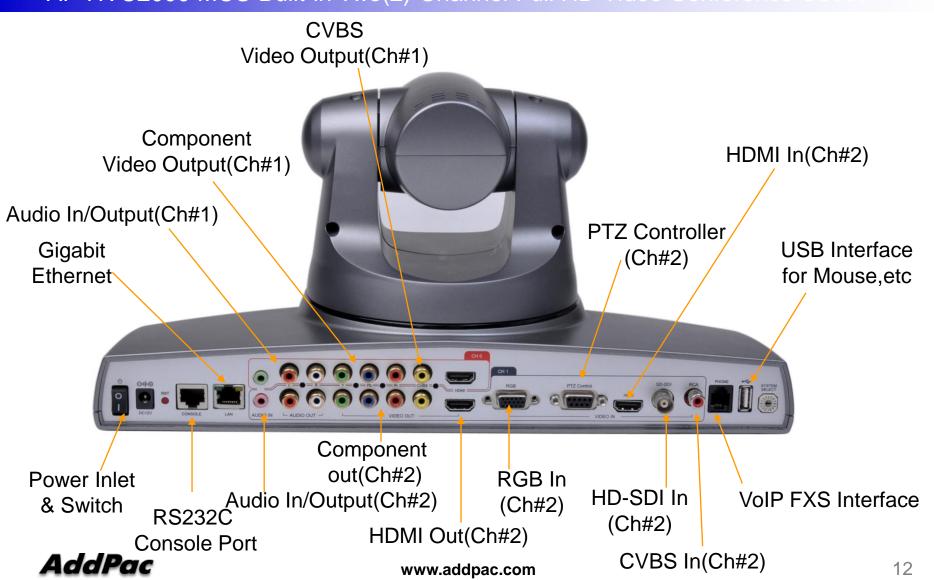


IR Sensor & Status Indication Area www.addpac.com

Hardware Specification



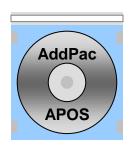
AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Codeo



Software Service

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Code

- 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
- High Performance VoIP Signaling
 - SIP, H.323 VoIP Signaling
- 4-Party Full HD MCU Signaling
- Firmware Upgradeable Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features



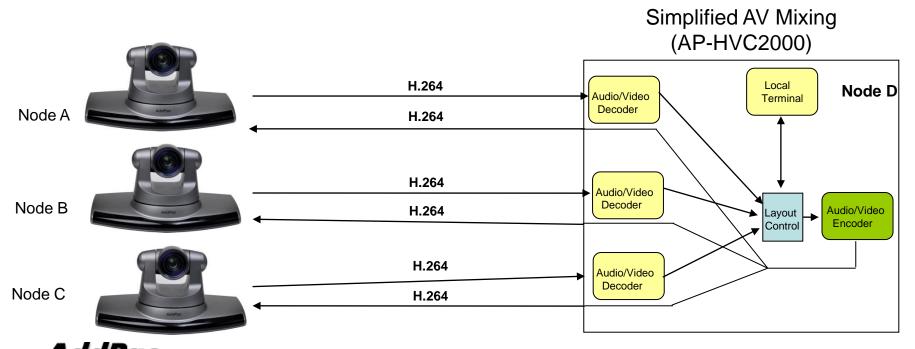


4-Party MCU Features (AP-HVC2000 Full HD Codec)

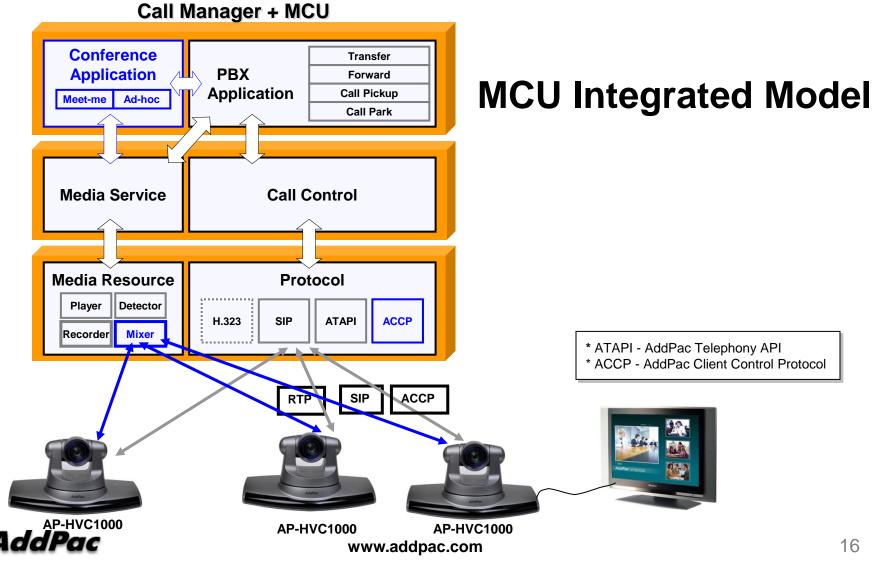


AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Coded

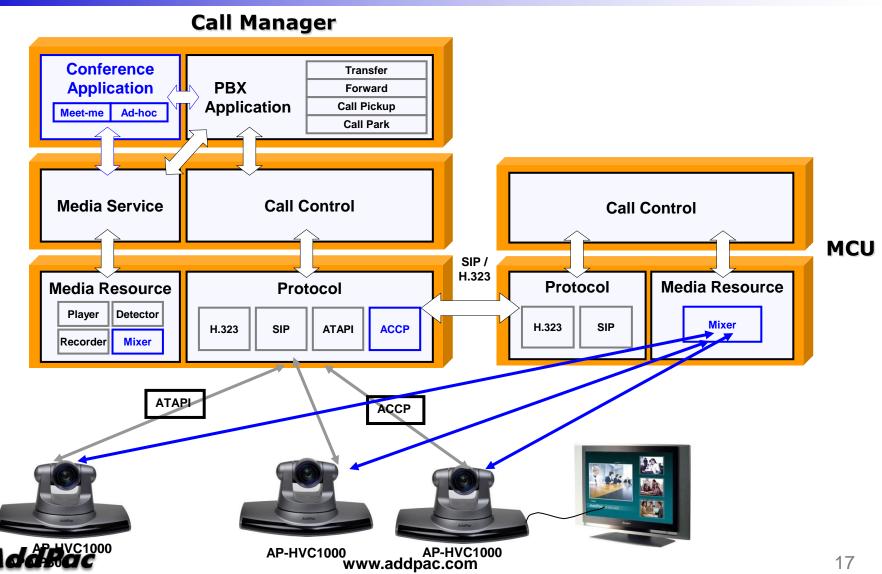
- Simplified AV Mixing Model
- Video Codec: H.264, MPEG4, H.263, etc
- Voice Codec: G.722, G.711, G.729, etc
- Asymmetric Rate Control between Encoder & Decoder
- Same Conference Layout for All Party



AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Code



AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Coded



AP-HCC2000 Two(2)-Channel Full HD Video Conference Codec

- Type of Conference
 - Meet-Me (Dial-In) Conference
 - Require that a range of directory numbers be allocated for exclusive use of the conference
 - Ad Hoc (On-Demand) Conference
 - using Conference and Join soft key
 - Dial-Out Conference
- View Mode Configuration



Network Service and Features

AP-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Code

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-HVC2000 MCU Built-in Two(2)-Channel Full HD Video Conference Code

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



Menu Bar Indication 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



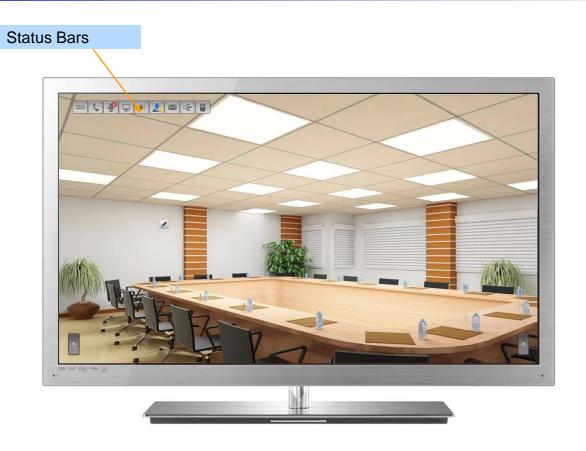


Codec Configuration





Status Indication Bars OSD





PTZ Control: Camera #1





PTZ Control: Camera Select





PTZ Control: Preset Setting





AP-HVC2000 Full HD Video Conference Equipmen

Application Area

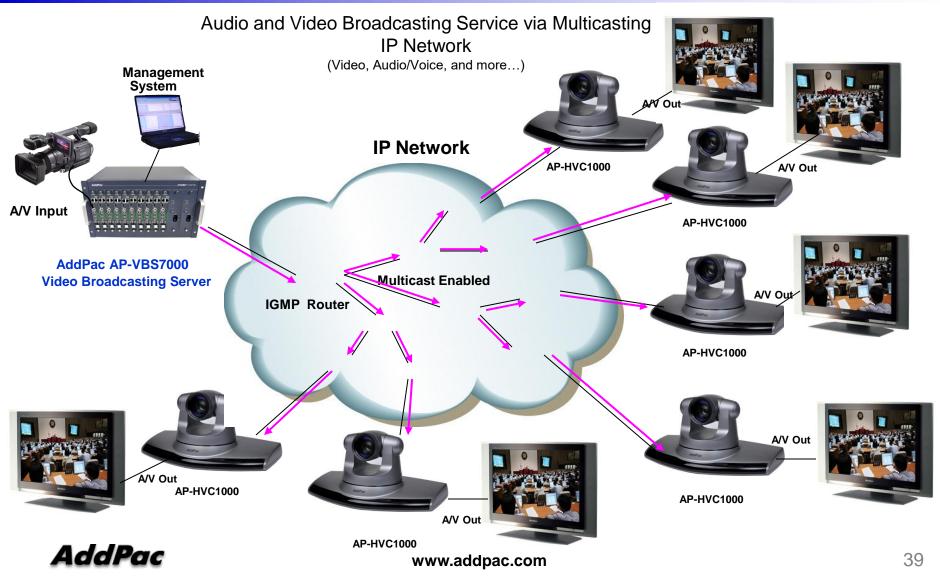
- Audio/Video Real-time Broadcasting
- Video Telephony
- Video Telephony + Document Broadcasting
- Video Telephony + Video Broadcasting
- Video Conference



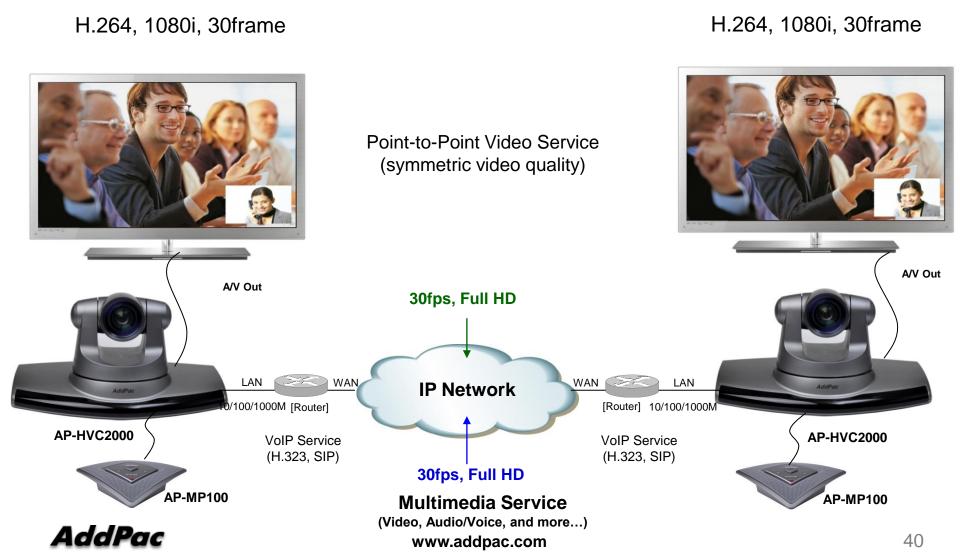


Audio/Video Real-time Broadcasting

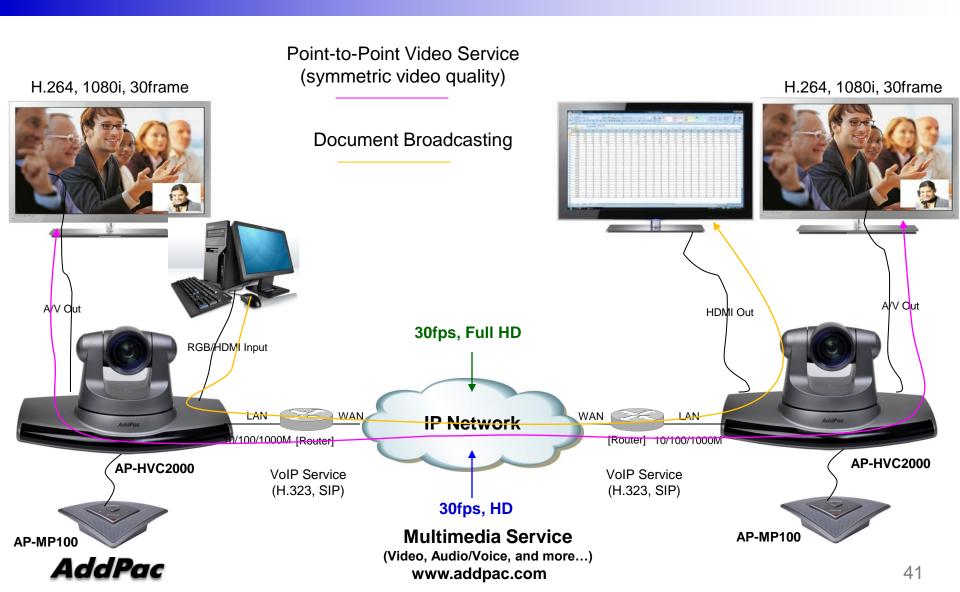
AP-HVC1000 Two(2)-Channel Full HD Video Conference Equipment



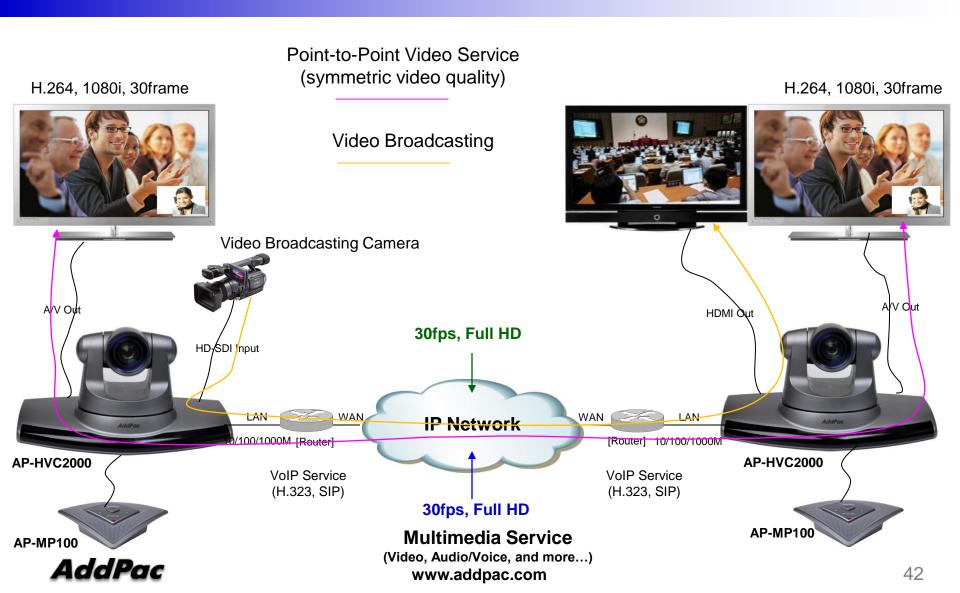
Video Telephony Application



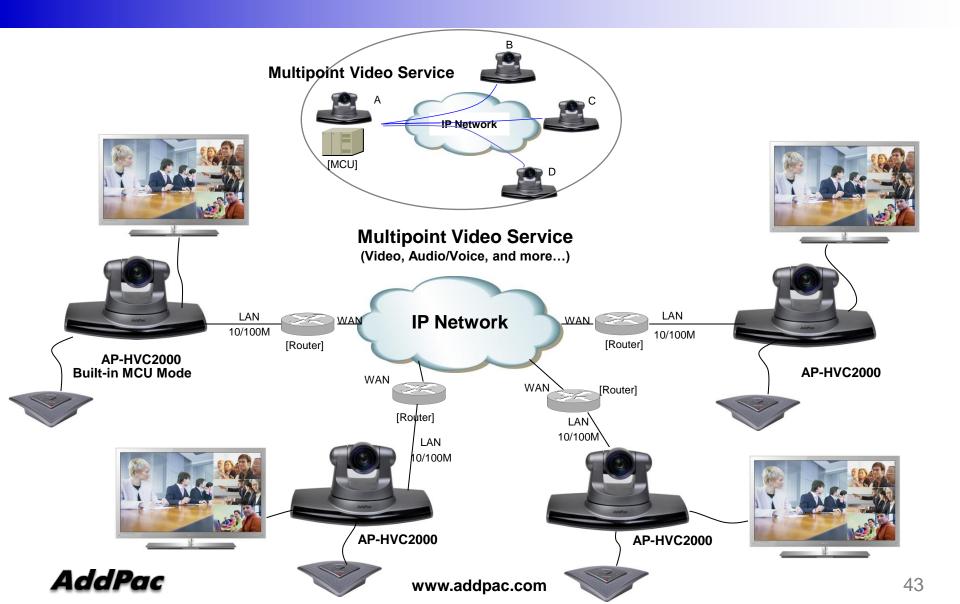
Video Telephony + Document Broadcasting



Video Telephony + Video Broadcasting



Video Conference



Ordering Information

- AP-HVC2000 Two(2) Channel Full HD Video Conference Equipment
 - AP-HVC2000 MCU Built-In Full HD Video Conference Equipment
 - Including Network Cable Set & Power Supply Cable, etc.
 - Option : Microphone
- Built-in APOS Internetworking Software for AP-HVC2000
- 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

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