



AP-VC2000

Video Conference Equipment

High Performance BcN Video Terminal Solution

(BcN : Broadband Convergence Network)

Preliminary Product Overview

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



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

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Product Overview

AP-VC2000 Video Conference Equipment

- IP based Video Phone Solution
- VoD (Video on Demand) Service
- IPTV Service
- Network Surveillance Service
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

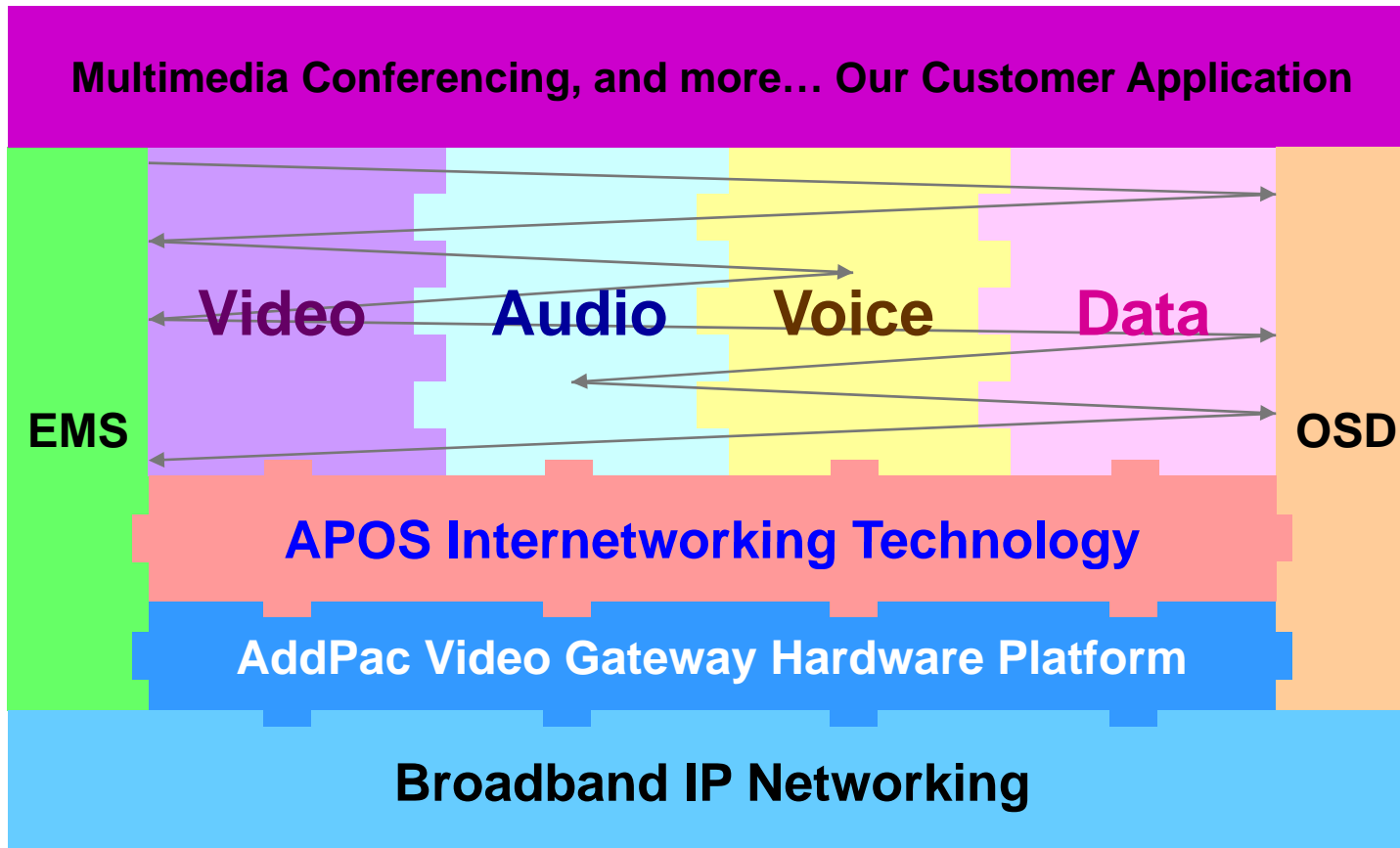
Product Highlights

AP-VC2000 Video Conference Equipment



Multimedia Service

AP-VC2000 Video Conference Equipment



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

Benefits and Features

AP-VC2000 Video Conference Equipment

- **External Video Interface**
 - Composite (RCA) Out, S-Video Out, Component Out
- **High-performance Video Codec Support**
 - H.263, MPEG-4, JPEG, and H.264
- **Powerful Image Resolution Support**
 - QCIF(176x144), CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480)
- **Up to 30fps with VGA-Resolution(MPEG-4)**
- **Video Conference Call Support (Internal 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**

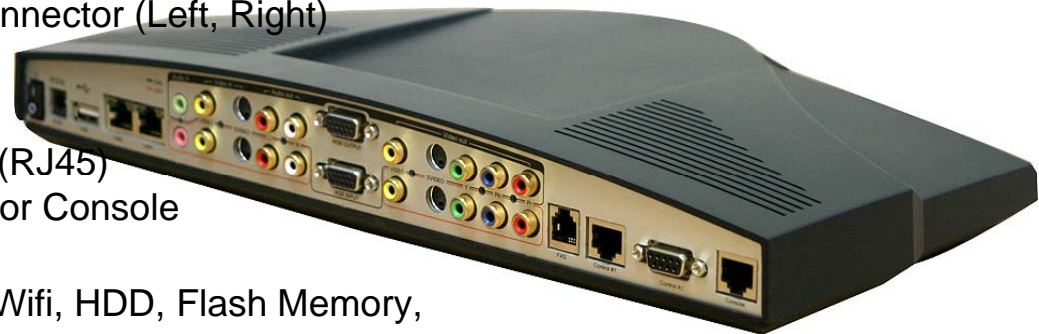
Hardware Specification

AP-VC2000 Video Conference Equipment

RISC
CPU

High-end
DSP

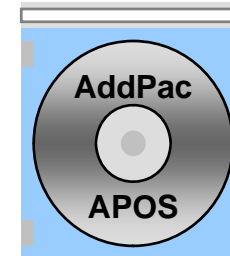
- **RISC Microprocessor Computing Power**
- **High-end Programmable DSP Hardware Architecture**
- **External Powerful Audio/Video Interface (CH#1)**
 - Composite RCA Out, S-Video Out, Component Out
 - Composite RCA Input, S-Video Input
 - Camera PAN/TILT/ZOOM via RJ45 RS-232C Interface
 - Stereo Audio Input Connector (3.5mm)
 - Stereo RCA Type Audio Output Connector (Left, Right)
- **External Powerful Audio/Video Interface (CH#2)**
 - Composite RCA Out, S-Video Out, Component Out, D-sub 15pin VGA Out
 - Composite RCA Input, S-Video Input, D-sub 15pin VGA Input
 - Camera PAN/TILT/ZOOM via DB-9 RS-232C/RS422 Interface
 - Stereo Audio Input Connector (3.5mm)
 - Stereo RCA Type Audio Output Connector (Left, Right)
- **Internal MIC/Speaker**
- **Network Interface**
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
 - One(1) RS-232C Interface (RJ45) for Console
- **USB Interface**
 - USB 1.1 Master Interface for USB Wifi, HDD, Flash Memory,
- **VoIP Gateway**
 - 1-Port FXS VoIP Interface for Analog Phone, Wireless Phone



Software Service

AP-VC2000 Video Conference Equipment

- **Built-in AddPac 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 DSP Architecture**
- **OSD (On-screen Display) Function Support**
- **Industry Standard IP based Network Protocol Features**



Video Service and Features

AP-VC2000 Video Conference Equipment

- **Various Video Networking Interface**
 - Composite (RCA), S-Video, Component, RGB
- **High-performance Video Codec Support**
 - H.263, MPEG-4, JPEG, and H.264
- **Powerful Image Resolution Support**
 - QCIF(176x144), CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480)
- **Up to 30fps with VGA Resolution(MPEG-4)**
- **64Kbps to 4Mbps Operating Video Traffic Bandwidth**
- **Rate Control for Video Traffic QoS**
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- **High-end Error Resilient Against Various Packet Error**

Audio & Voice Service and Features

AP-VC2000 Video Conference Equipment

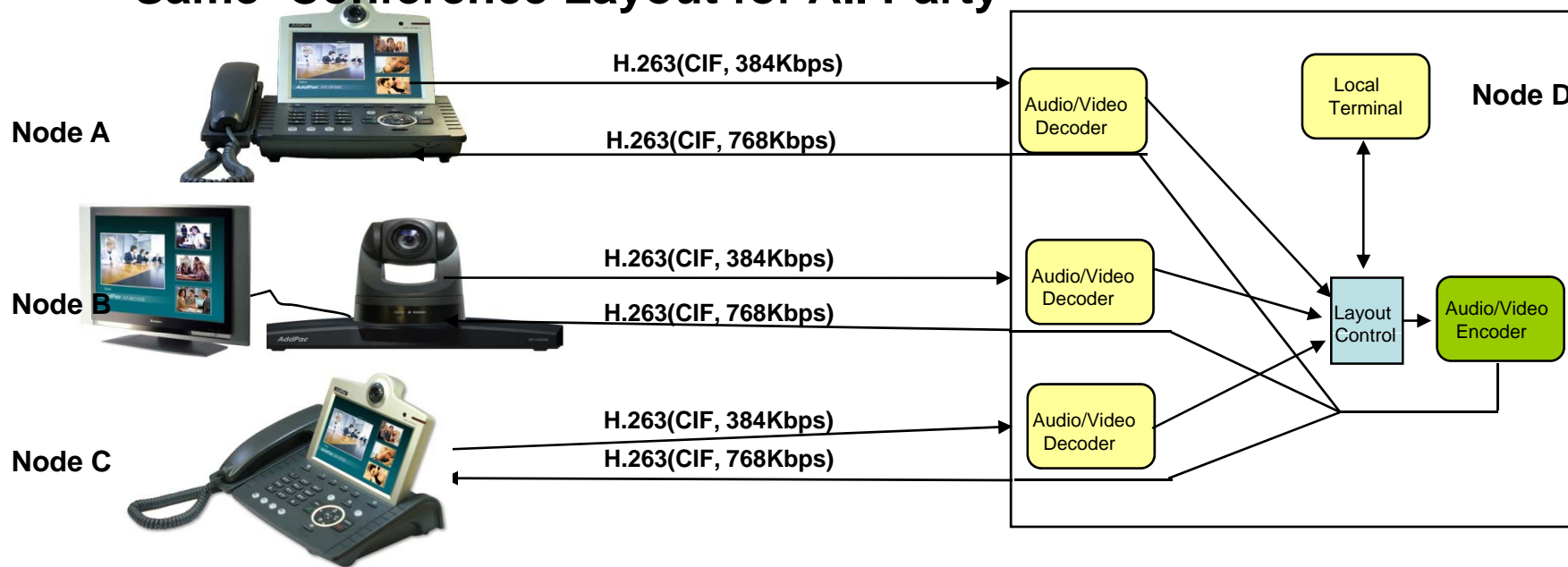
- **Audio & Voice Networking Interface**
 - Audio Input Port (3.5mm Stereo Female Connector) (Mic/Line In)
 - Audio Output Port (RCA Type, Left, Right)
 - Internal MIC
 - Internal Speaker
- **VoIP based Signaling Protocol Support**
 - H.323, SIP Multiple Signaling Protocol Stack
- **High-performance Audio & Voice Codec Support**
 - Head Set : G.723.1, G.729, G.726, G.711, etc
 - Line IN/OUT : G.726, G.711 Audio Codec, etc
Voice Codec for broadcasting service.
- **Enhanced QoS Management Features for Voice Traffics**

MCU Service and Features (cont..)

AP-VC2000 Video Conference Equipment

- **Simplified AV Mixing Model**
- **Video Codec : H.263 or MPEG4**
- **Voice Codec : G.711, G.726**
- **Single Rate Control**
- **Asymmetric Rate Control between Encoder & Decoder**
- **Same Conference Layout for All Party**

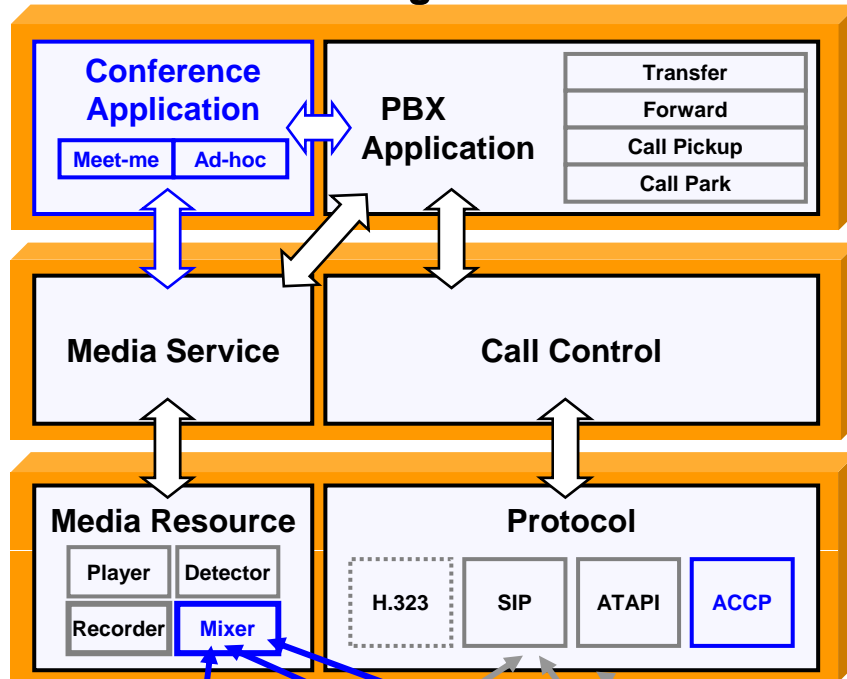
Simplified AV Mixing



MCU Service and Features (cont..)

AP-VC2000 Video Conference Equipment

Call Manager + MCU



MCU Integrated Model

* ATAPI - AddPac Telephony API
 * ACCP - AddPac Client Control Protocol

AP-VP200

AddPac

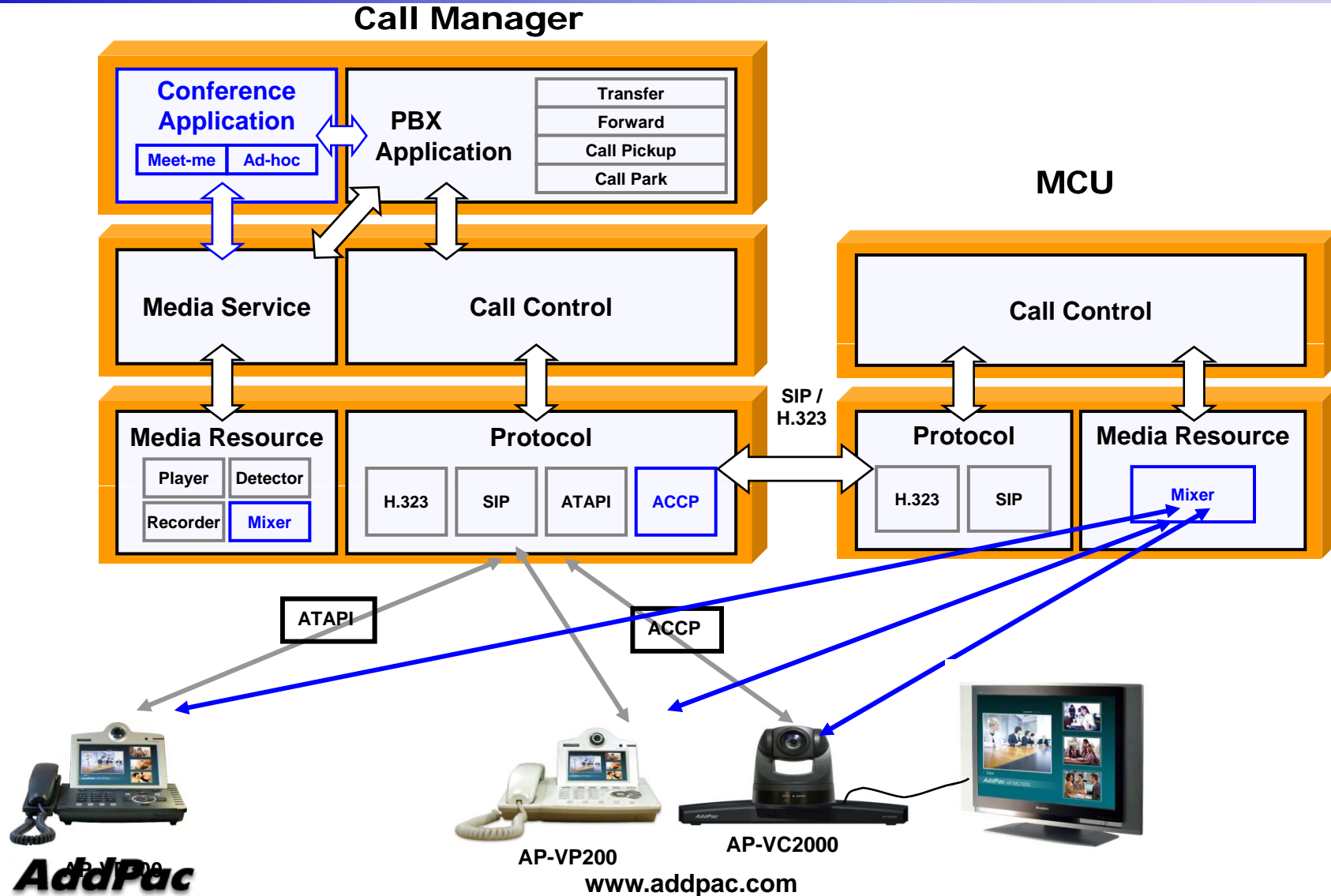
AP-VP300

AP-VC2000

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MCU Service and Features (cont..)

AP-VC2000 Video Conference Equipment



MCU Service and Features (cont..)

AP-VC2000 Video Conference Equipment

- 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-VC2000 Video Conference Equipment

- **Network Managements**
 - Standard SNMP Agent (MIB v2) Support
 - Remote Management using Console, Telnet
 - Web based Management using HTTP Server Interface
- **Security Functions**
 - Standard & Extended IP Access List
 - Enable/Disable for Specific Network Protocols
 - Multi-level User Account Management
 - Auto-disconnect for Telnet/Console Sessions
 - PPP User Authentication Supports (PAP & CHAP)
- **Operation & Managements**
 - System Performance Analysis for Process, CPU, Connection Interface
 - Debugging, System Auditing, and Diagnostics Support
 - System Booting and Auto-rebooting with Watchdog Feature
 - System Managements with Data Logging
 - IP Traffic Statistics with Accounting

Network Service and Features

AP-VC2000 Video Conference Equipment

- **Network Managements**
 - DHCP Server & Relay Functions
 - Network Address Translation (NAT) Function
 - Port Address Translation (PAT) Function
 - Transparent Bridging (IEEE Standard) Function
 - Spanning Tree Bridging Protocol Support
 - Remote Bridging Support
 - Concurrent Routing and Bridging Support
 - Cisco Style Command Line Interface (CLI)
 - Network time Protocol (NTP) Support

OSD Software Features

AP-XXXXXX Video Conferencing Features (OSD) 1

Menu Status

Information & Status



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

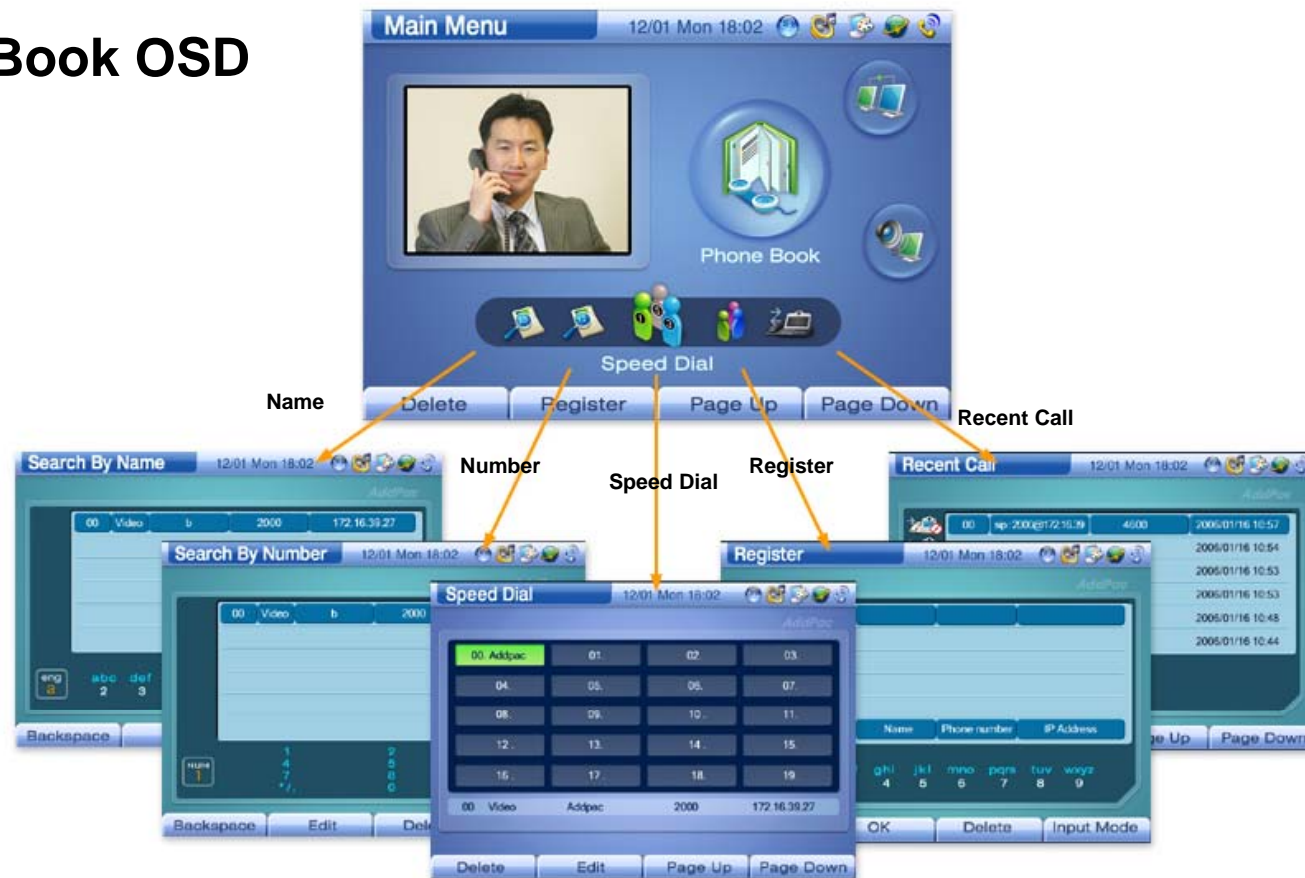
AV Setup OSD



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

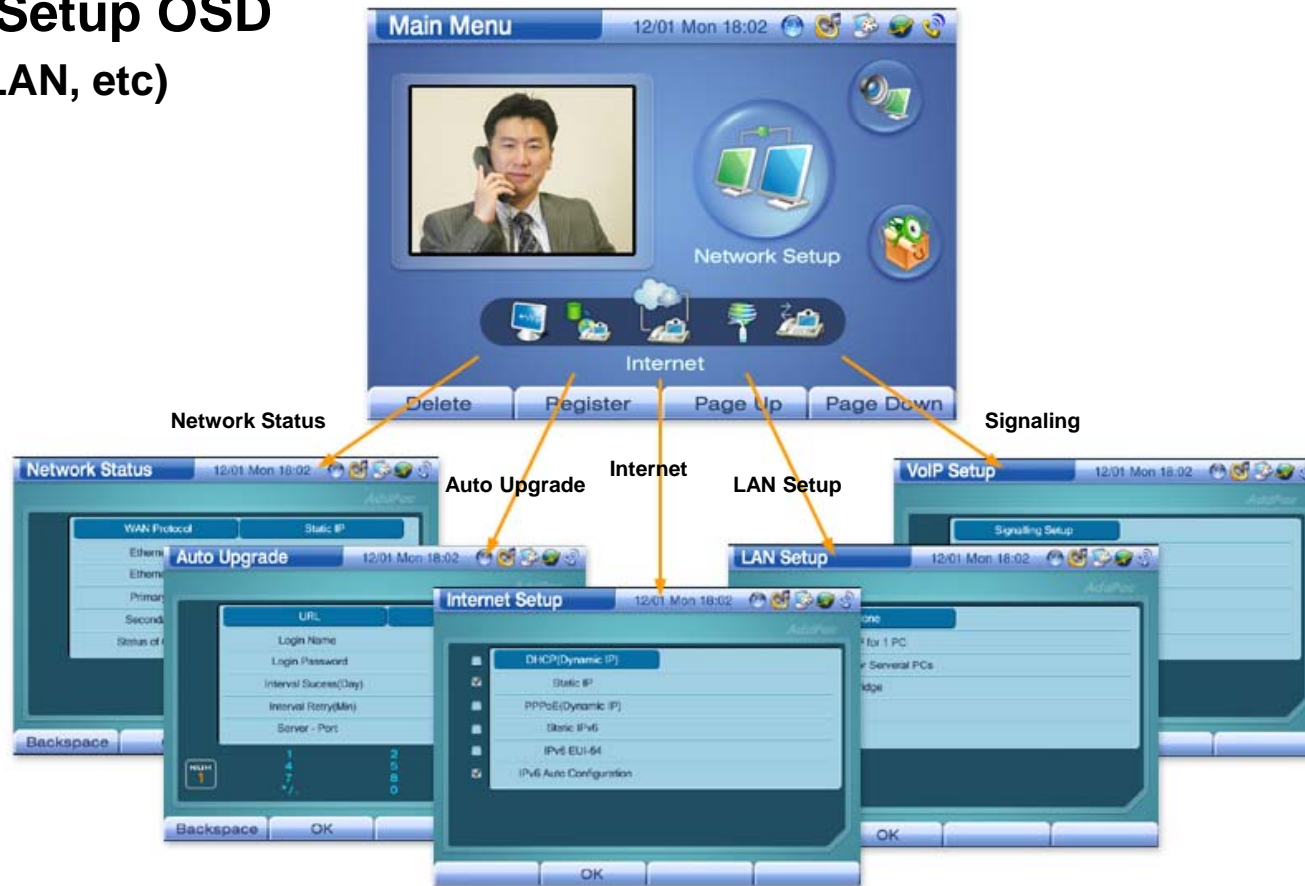
Phone Book OSD



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

Network Setup OSD (VoIP, LAN, etc)



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

Tool Box OSD
(Ring Type, Language Setup, etc)



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

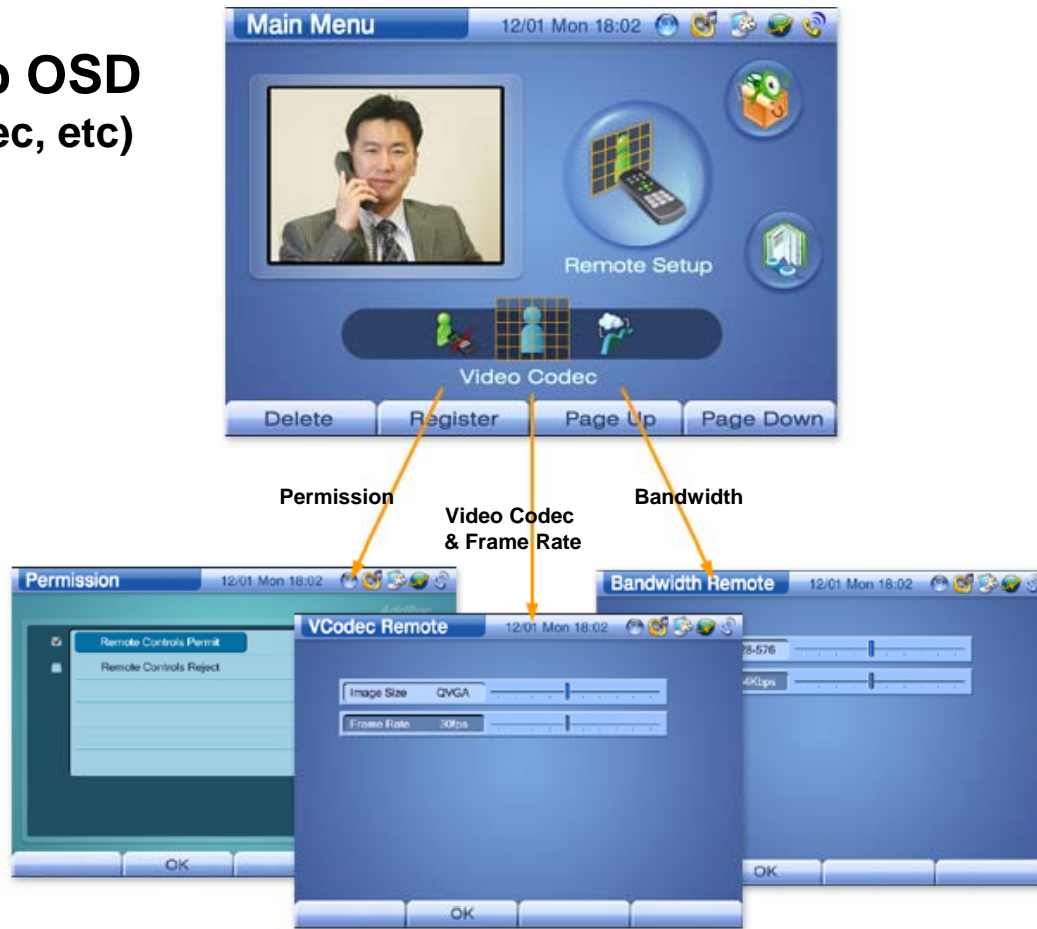
Application OSD
(VoD, IPTV, Network Camera, File Browser, etc)



OSD Software Features

AP-VC2000 Video Conference Equipment OSD Service

Remote Setup OSD (Bandwidth, Codec, etc)



AP-VC2000 Video Conference Equipment

Application Area

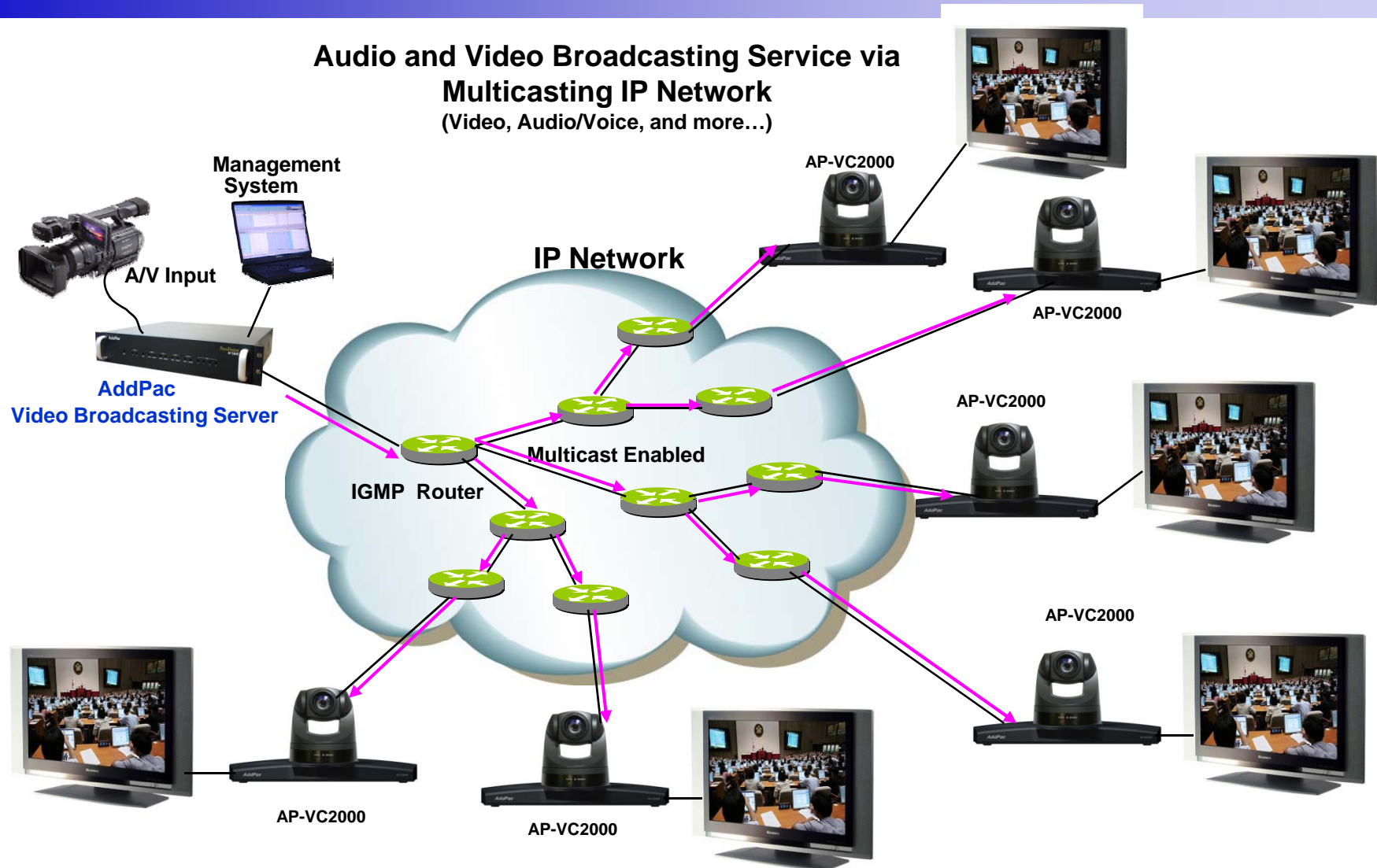
- Audio/Video Real-time Broadcasting
- Video on Demand Application
- IPTV Application for Enterprise
- Video Telephony
- Video Conference



Audio/Video Real-time Broadcasting

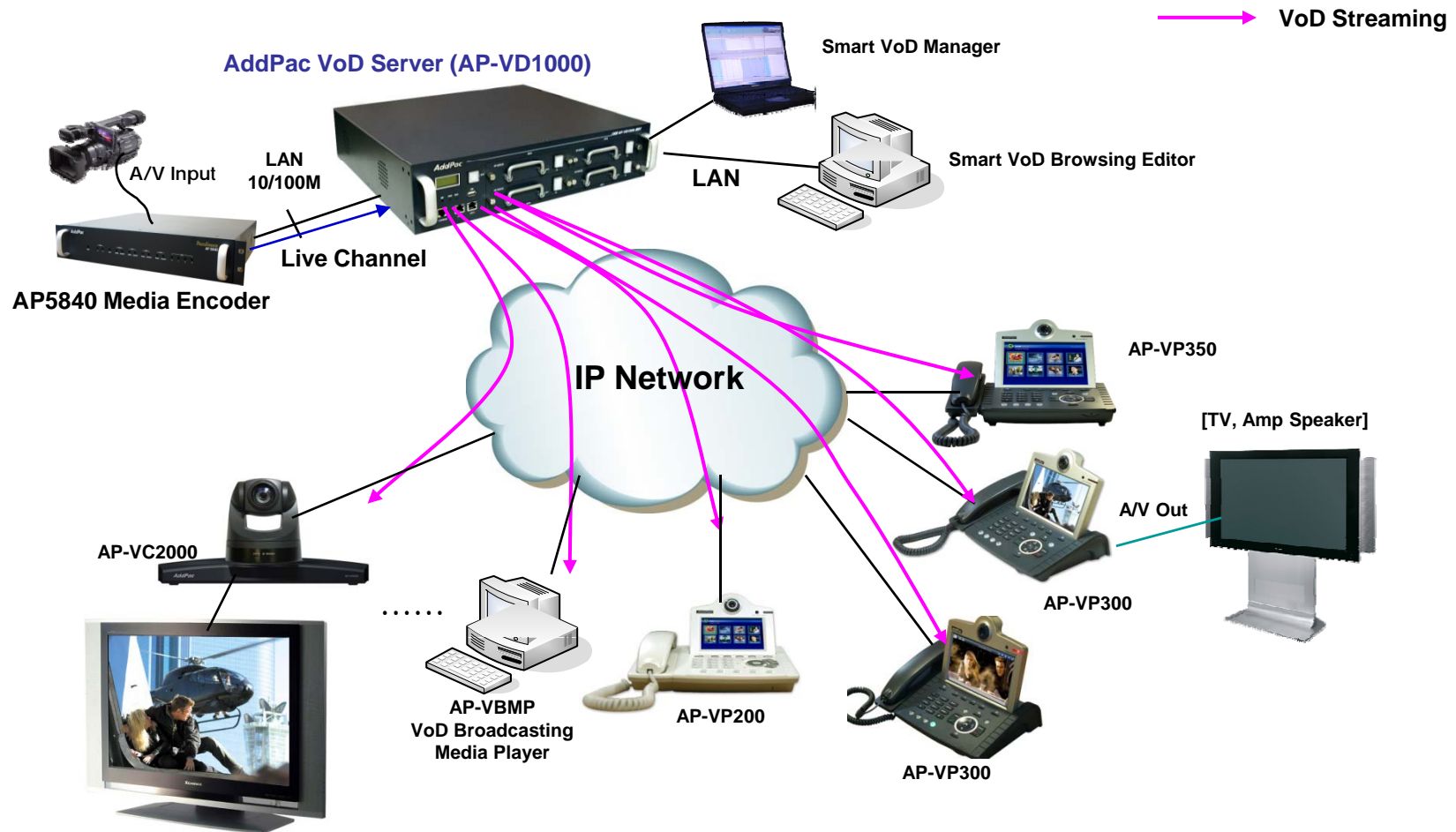
AP-VC2000 Video Conference Equipment

Audio and Video Broadcasting Service via
Multicasting IP Network
(Video, Audio/Voice, and more...)



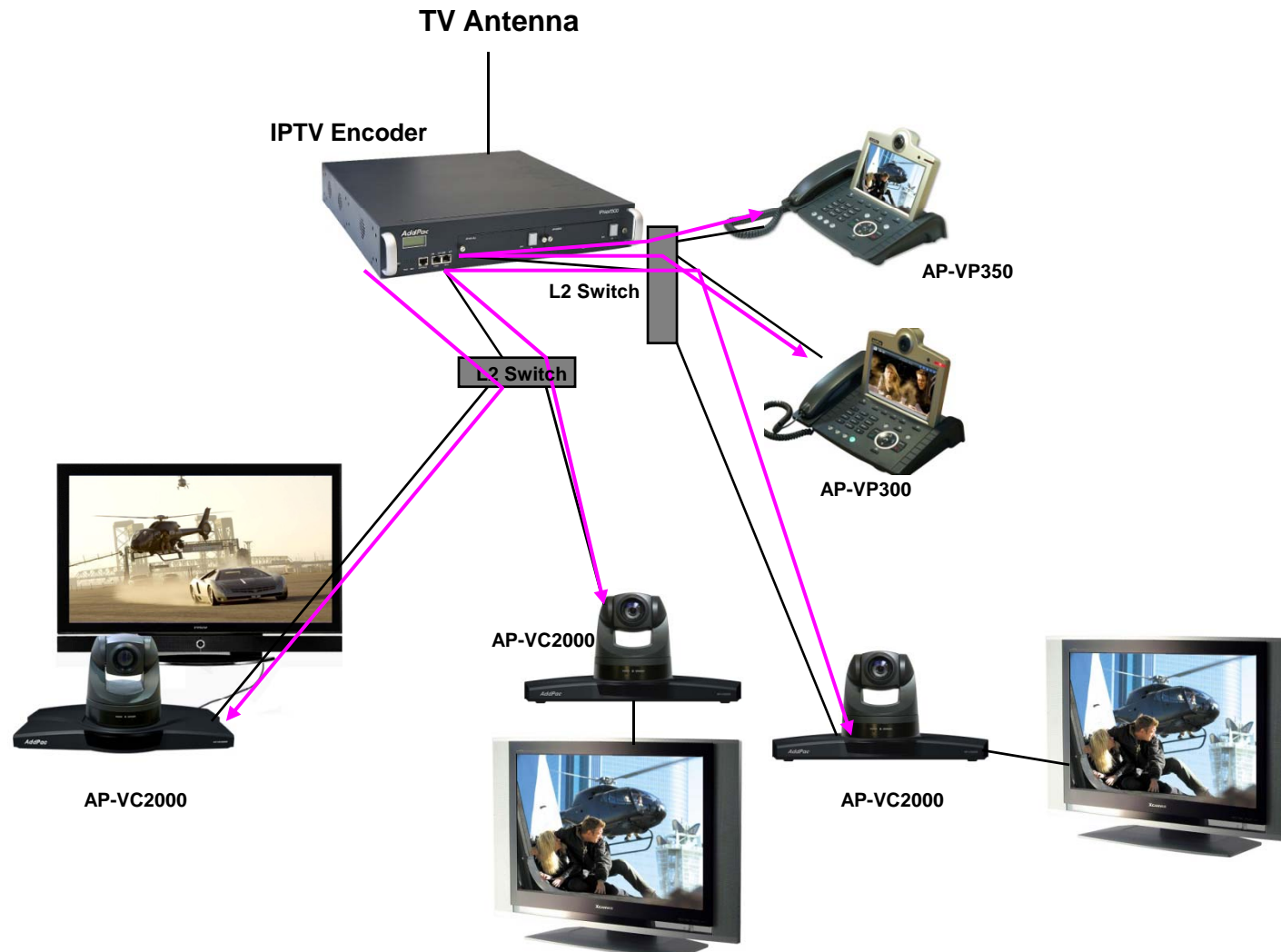
Video on Demand Service

AP-VC2000 Video Conference Equipment



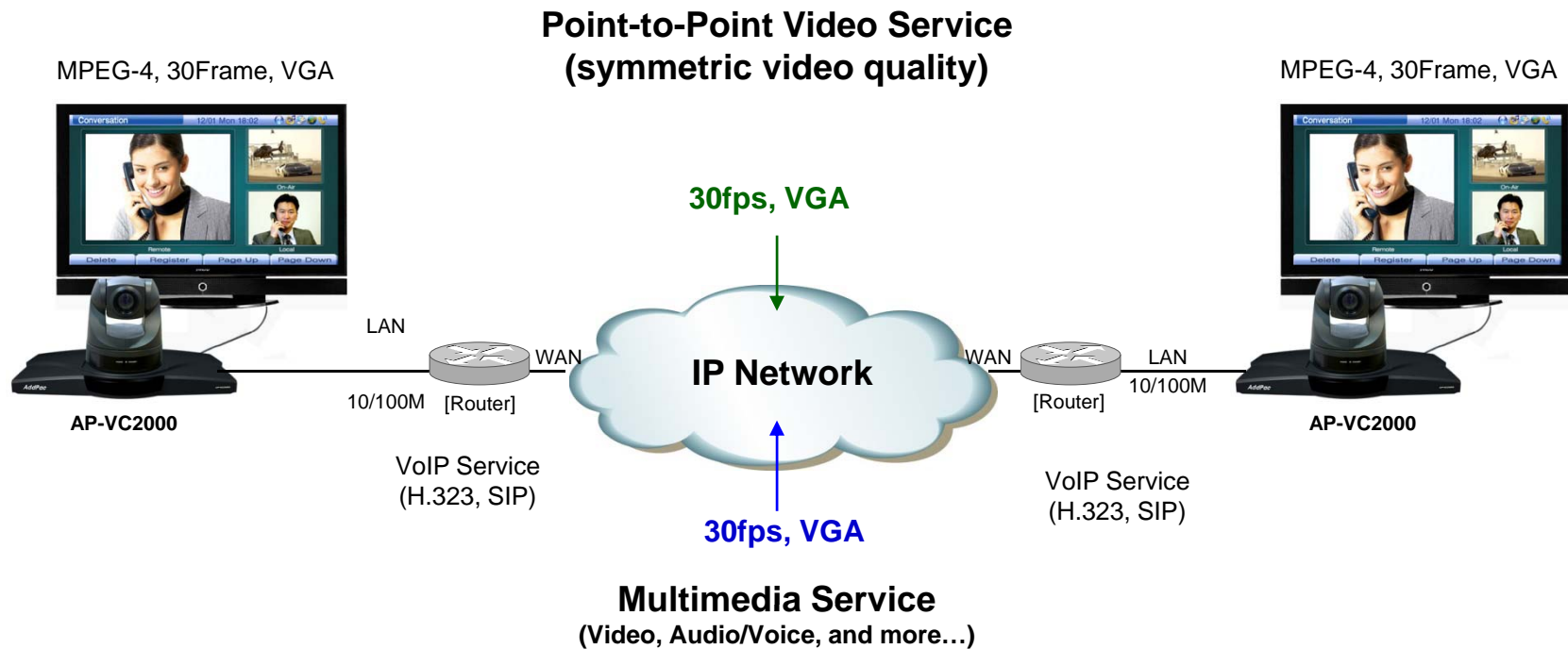
IPTV Service for Enterprise

AP-VC2000 Video Conference Equipment



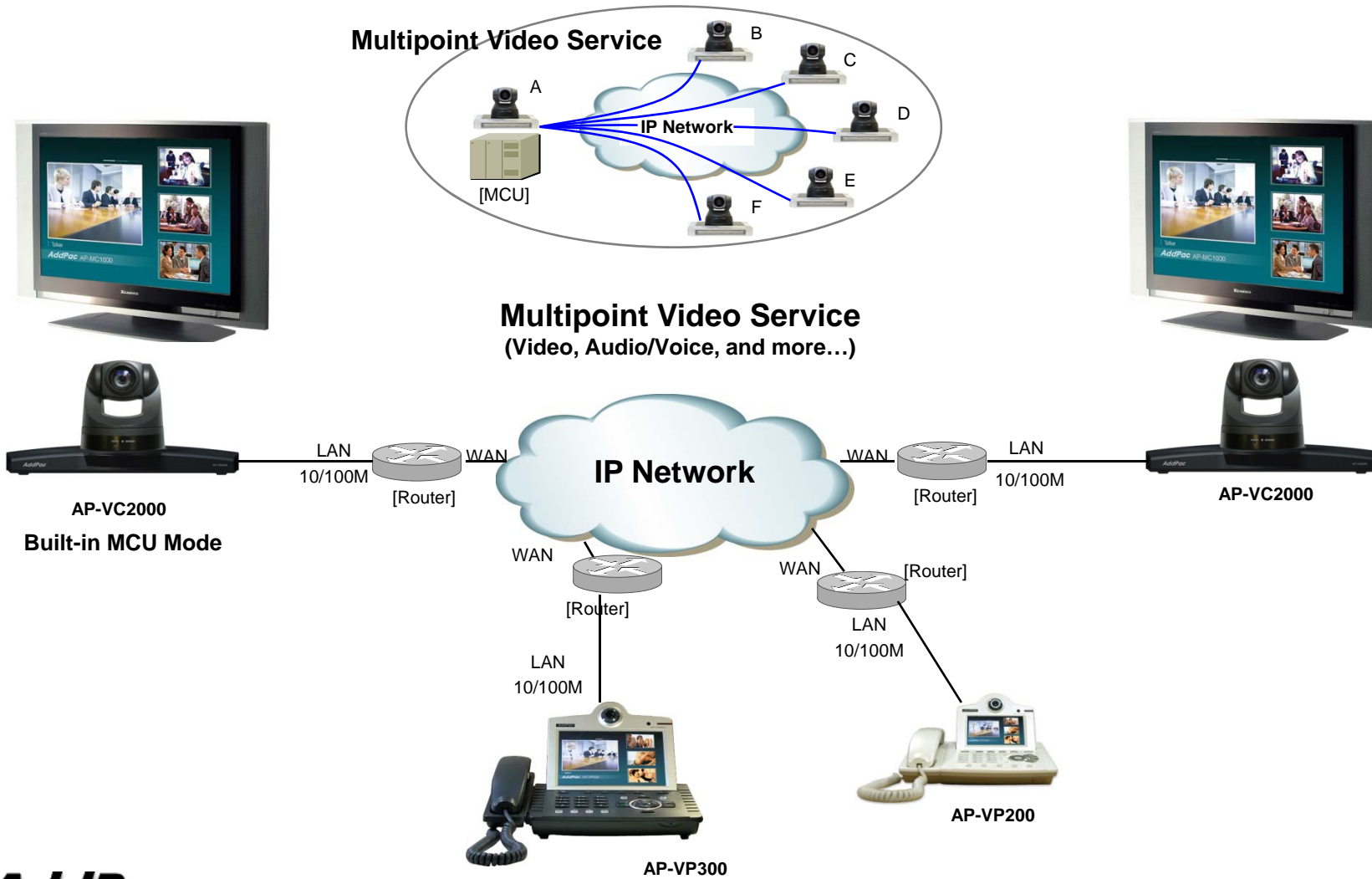
Video Telephony Application

AP-VC2000 Video Conference Equipment



Video Conference

AP-VC2000 Video Conference Equipment



Ordering Information

- **AP-VC2000 Video Conference Equipment Hardware**
 - AP-VC2000 Video Conference Equipment Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - Built-In MCU, Dual Monitor Display, Remote Controller
 - Built-In MIC/Speaker
 - CH#1, CH#2 AV Interface (Composite, S-Video, Component)
 - 2-ports 10/100Mbps Fast Ethernet and 1-port RJ45 RS-232C Console
 - 1-Port USB Interface (Master Mode)
 - 1-Port FXS VoIP Interface for Analog Phone
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-VC2000**
- **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!

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Sales and Marketing

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