AP-HVC500™ HD Video Conference Equipment

High Performance HD Video Conference Solution

Preliminary Product Overview

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

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AddPac Technology

2012, Sales and Marketing

www.addpac.com

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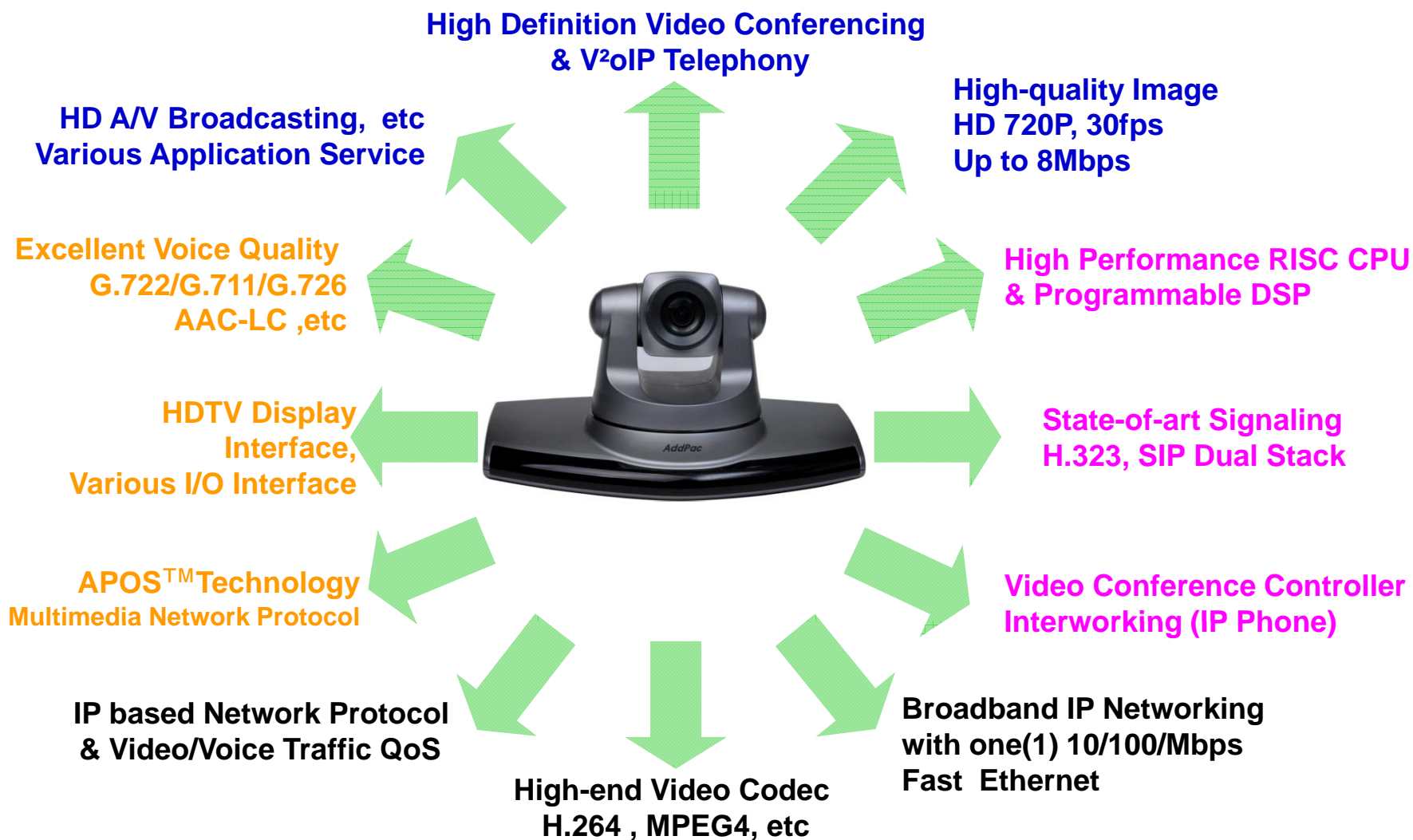

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Product Overview

AP-HVC500 HD Video Conference Equipment

- IP based Video Conference Solution
- High-End HD Video Camera Features
- CCD Camera Sensor, 1.3Mega Pixel Camera
- Various Video Format Support
- PAN/TILT/Zoom Housing Features
- Optical 18 x Zoom Support
- 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
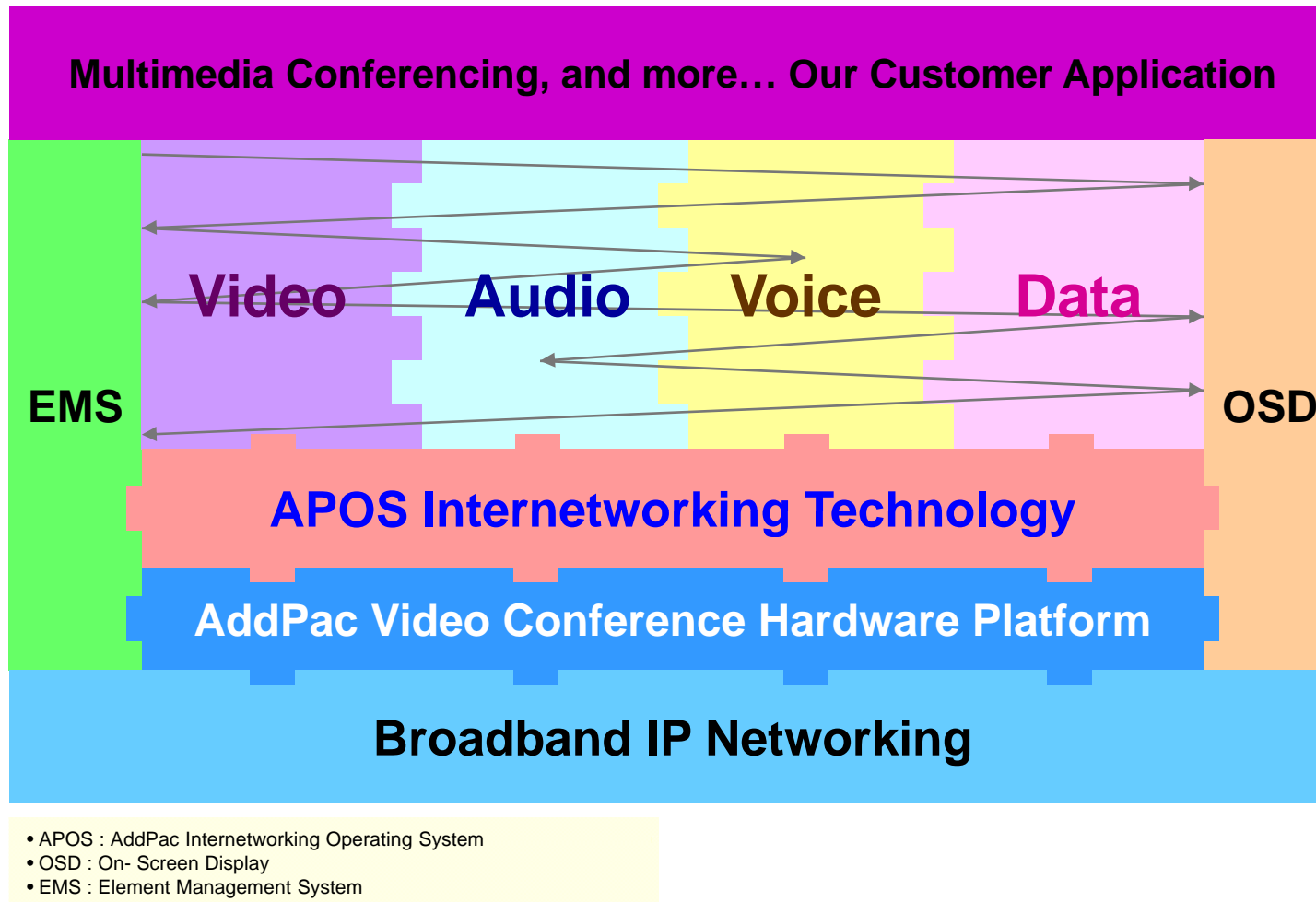
AP-HVC500 HD Video Conference Equipment

High Definition Video Conferencing & V²oIP Telephony

HD A/V Broadcasting, etc Various Application Service

High-quality Image HD 720P, 30fps Up to 8Mbps

Excellent Voice Quality G.722/G.711/G.726 AAC-LC ,etc

High Performance RISC CPU & Programmable DSP

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

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

High-end Video Codec H.264 , MPEG4, etc

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Multimedia Service

Multimedia Conferencing, and more… Our Customer Application

Video   **Audio**   **Voice**   **Data**

EMS   **OSD**

APOS Internetworking Technology

AddPac Video Conference Hardware Platform

Broadband IP Networking

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

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Benefits and Features

- Various Video Input/Output Interface
  - Composite (RCA) , Component (Y, Pb, Pr), HDMI
- 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)
- Up to 30fps with 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

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Hardware Specification

AP-HVC500 HD Video Conference Equipment

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

Video Input	Built-In HD Video Camera, Composite RCA, HD-SDI, 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

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Hardware Specification

AP-HVC500 HD Video Conference Equipment

High Performance CPU

High-end DSP

- **High-end Programmable DSP Hardware Architecture**
- **Network Interface**
  - One(1) 10/100Mbps Fast 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**

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Hardware Specification

- Camera Specification
  - 1/3 Type Solid State Progressive Scan CCD
  - HD : 1280(H) x 720(V), 30/25/22.5fps
  - Auto Focus 18 x Optical Zoom, 12 x Digital Zoom
  - 1.3 Mega Pixel
  - Wide Angle Lens for Video Conference Application
  - PELCO-D Control Protocol
  - Position Preset

Hardware Specification

AP-HVC500 HD Video Conference Equipment

High Performance CPU

High-end DSP
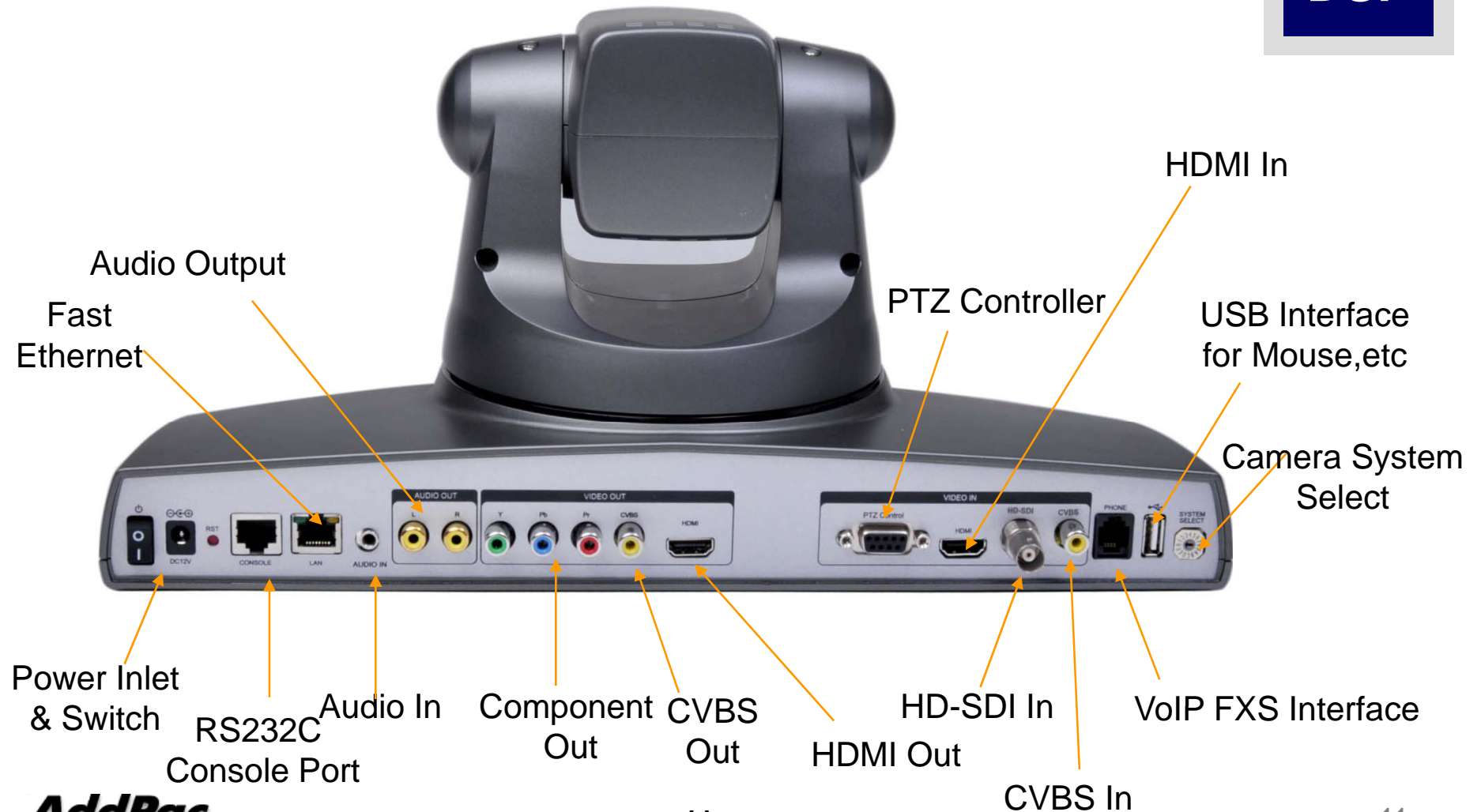
HD Camera

IR Sensor & Status Indication Area

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Hardware Specification

AP-HVC500 HD Video Conference Equipment

High
Performance
CPU

High-end
DSP

HDMI In

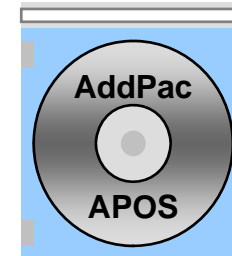Audio Output

Fast
Ethernet

PTZ Controller

USB Interface
for Mouse,etc

Camera System
Select

Power Inlet
& Switch

RS232C
Console Port

Audio In

Component
Out

CVBS
Out

HDMI Out

HD-SDI In

VoIP FXS Interface

CVBS In

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Software Service

- 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

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APOS

Network Service and Features

- **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

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Network Service and Features

- **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 Features

AP-HVC500 HD Video Conference Equipment
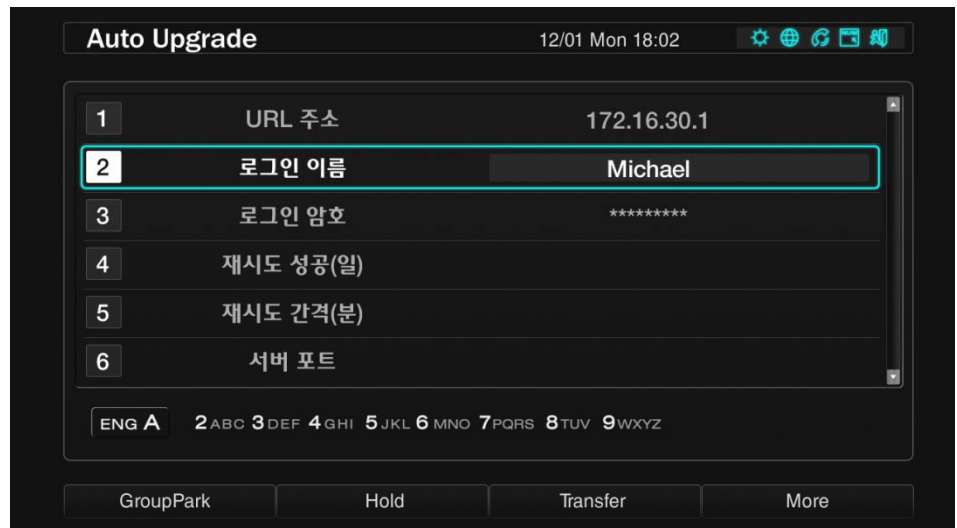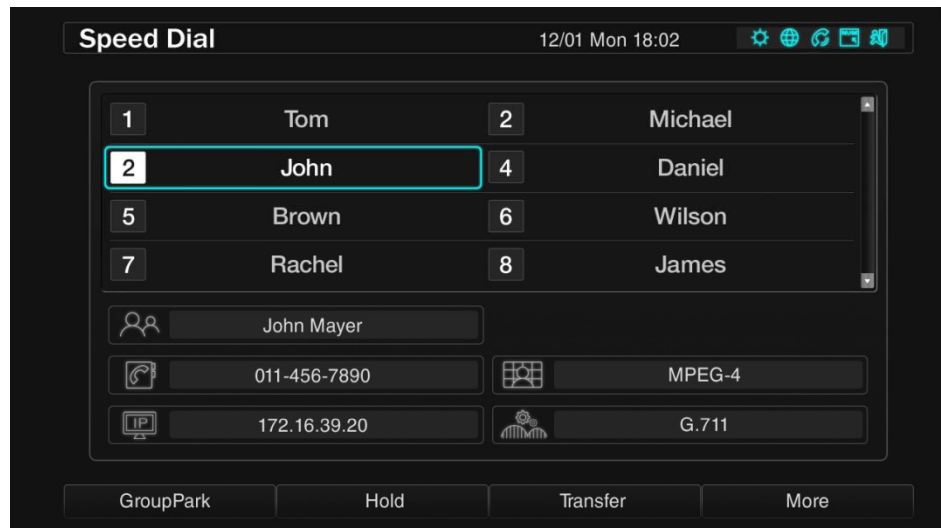
AP-HVC500 HD Video Conference Equipment

Application Area

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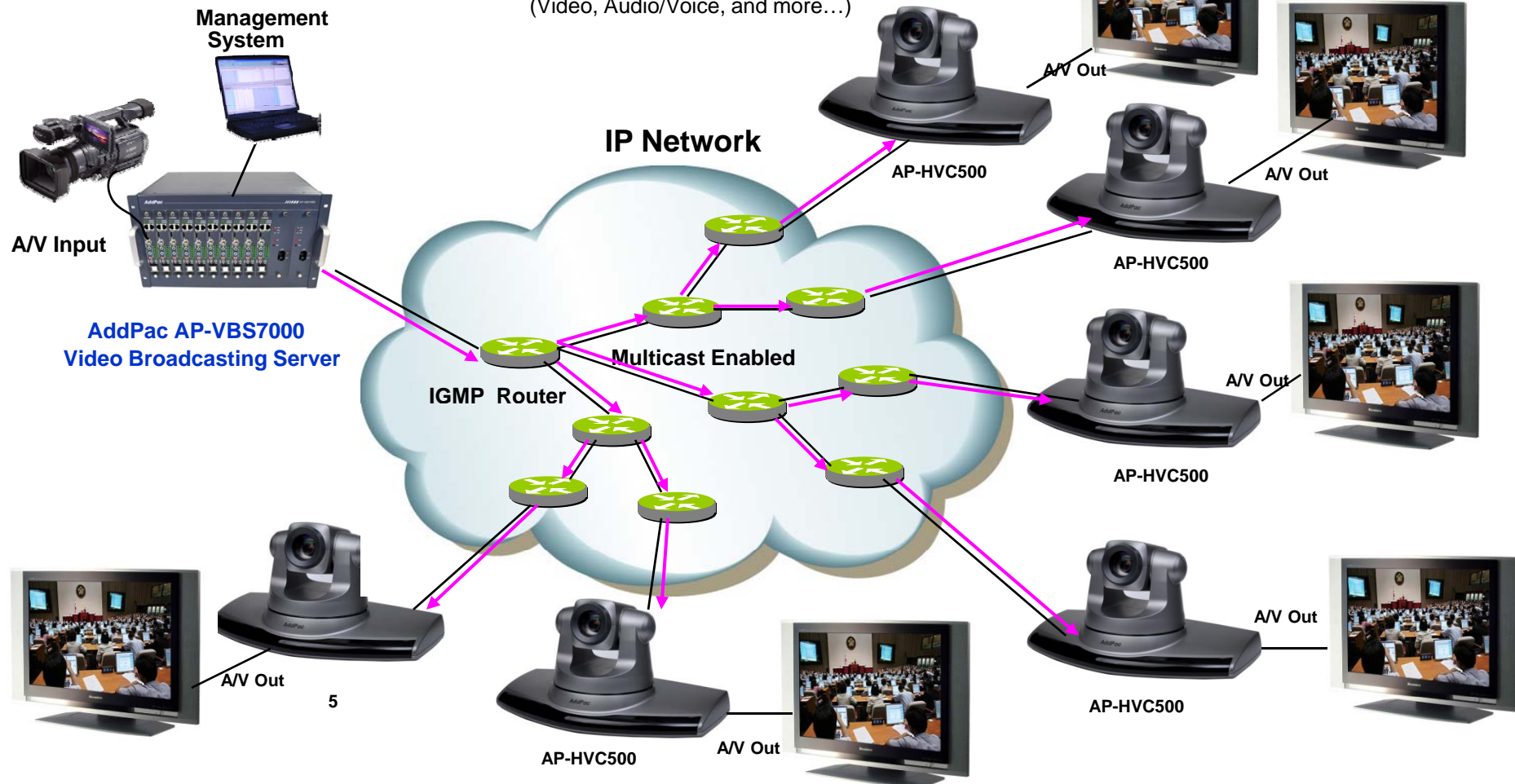- Video Conference

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Audio/Video Real-time Broadcasting

AP-HVC500 HD Video Conference Equipment

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

Management System

IP Network

A/V Input

AP-HVC500

A/V Out

A/V Out

AP-HVC500

**AddPac AP-VBS7000
Video Broadcasting Server**

Multicast Enabled

IGMP Router

A/V Out

AP-HVC500

A/V Out

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AP-HVC500

A/V Out

AP-HVC500

A/V Out

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Video Telephony Application

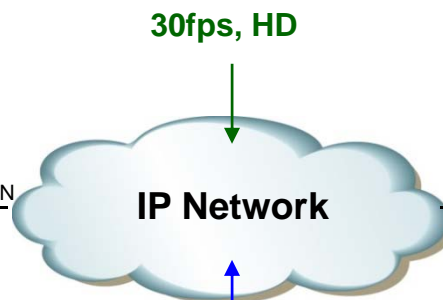AP-HVC500 HD Video Conference Equipment

H.264, 720P, 30frame

H.264, 720P, 30frame

**Point-to-Point Video Service
(symmetric video quality)**

A/V Out

A/V Out

30fps, HD

LAN WAN

IP Network

WAN LAN

10/100/1000M [Router]

[Router] 10/100/1000M

AP-HVC500

AP-HVC500

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

30fps, HD

**Multimedia Service
(Video, Audio/Voice, and more…)
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Video Conference

AP-HVC500 HD Video Conference Equipment

Multipoint Video Service
(Video, Audio/Voice, and more…)

AP-MC5000 Video MCU

IP Network

WAN

LAN
10/100M

[Router]

WAN

WAN

[Router]

LAN
10/100M

WAN

[Router]

LAN
10/100M

WAN

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LAN
10/100M
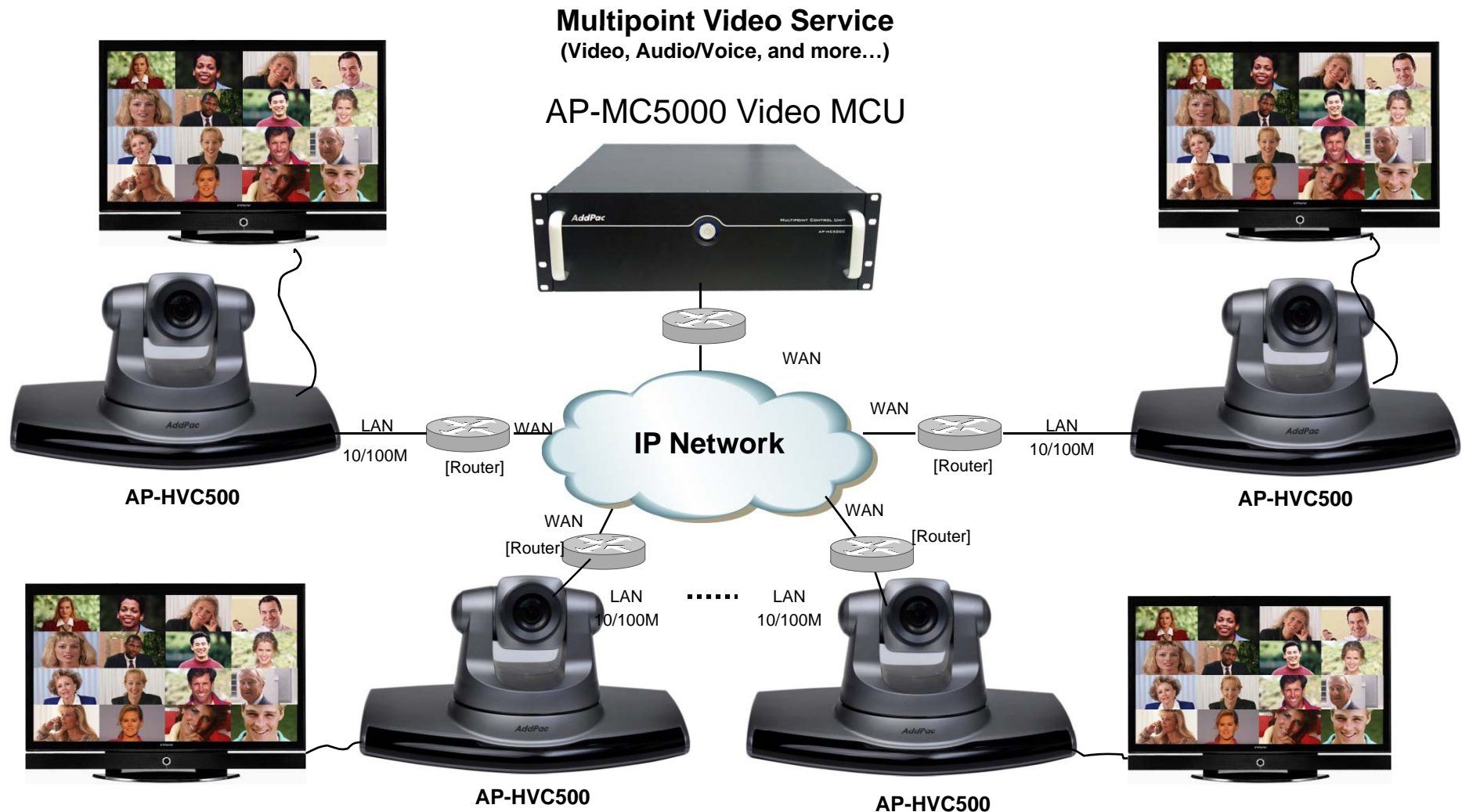
AP-HVC500

AP-HVC500

AP-HVC500

AP-HVC500

Ordering Information

- AP-HVC500 HD Video Conference Equipment
  - AP-HVC500 HD Video Conference Equipment
  - Including Network Cable Set & Power Supply Cable, etc.
- Built-in APOS Internetworking Software for AP-HVC500
- 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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