AP-HVC600 Full HD Video Conference Equipment

High Performance Full HD Video Conference Solution

Preliminary Product Overview

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

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AddPac Technology

Sales and Marketing

Contents

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

Product Overview

- 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
- Option : Optical 10 x Zoom, Digital 12 x Zoom Camera
- Built-in Wide Angle Lens for Video Conference
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
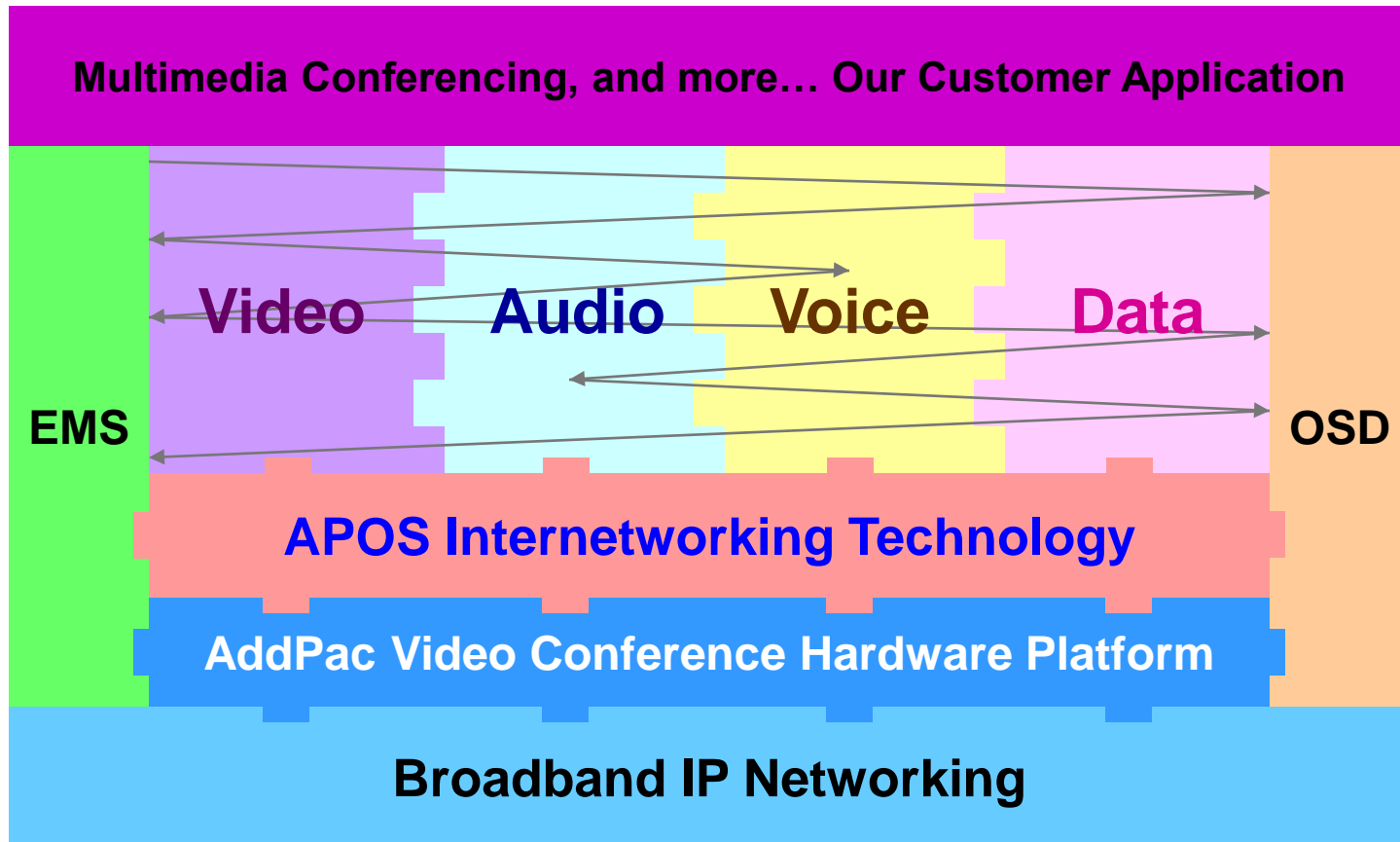- Audio/Video Privacy Protection

Product Highlights

AP-HVC600 Full HD Video Conference Equipment

Full High Definition Video Conferencing & V²oIP Telephony

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

Full HD A/V Broadcasting, etc Various Application Service

High Performance RISC CPU & Programmable DSP

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

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

Full HDTV Display Interface, Various I/O Interface

Video Conference Controller Interworking (IP Phone)

APOS™Technology Multimedia Network Protocol

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

IP based Network Protocol & Video/Voice Traffic QoS

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, 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), 1080i(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

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Hardware Specification

AP-HVC600 Full HD Video Conference Equipment

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

Video Input	Built-In 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

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Hardware Specification

AP-HVC600 Full HD Video Conference Equipment

- 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

Hardware Specification

- 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

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Hardware Specification

AP-HVC600 Full HD Video Conference Equipment

Full HD Camera

IR Sensor & Status Indication Area

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Hardware Specification

AP-HVC600 Full HD Video Conference Equipment

Audio Output

Gigabit
Ethernet

HDMI In

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

CVBS In

VoIP FXS Interface

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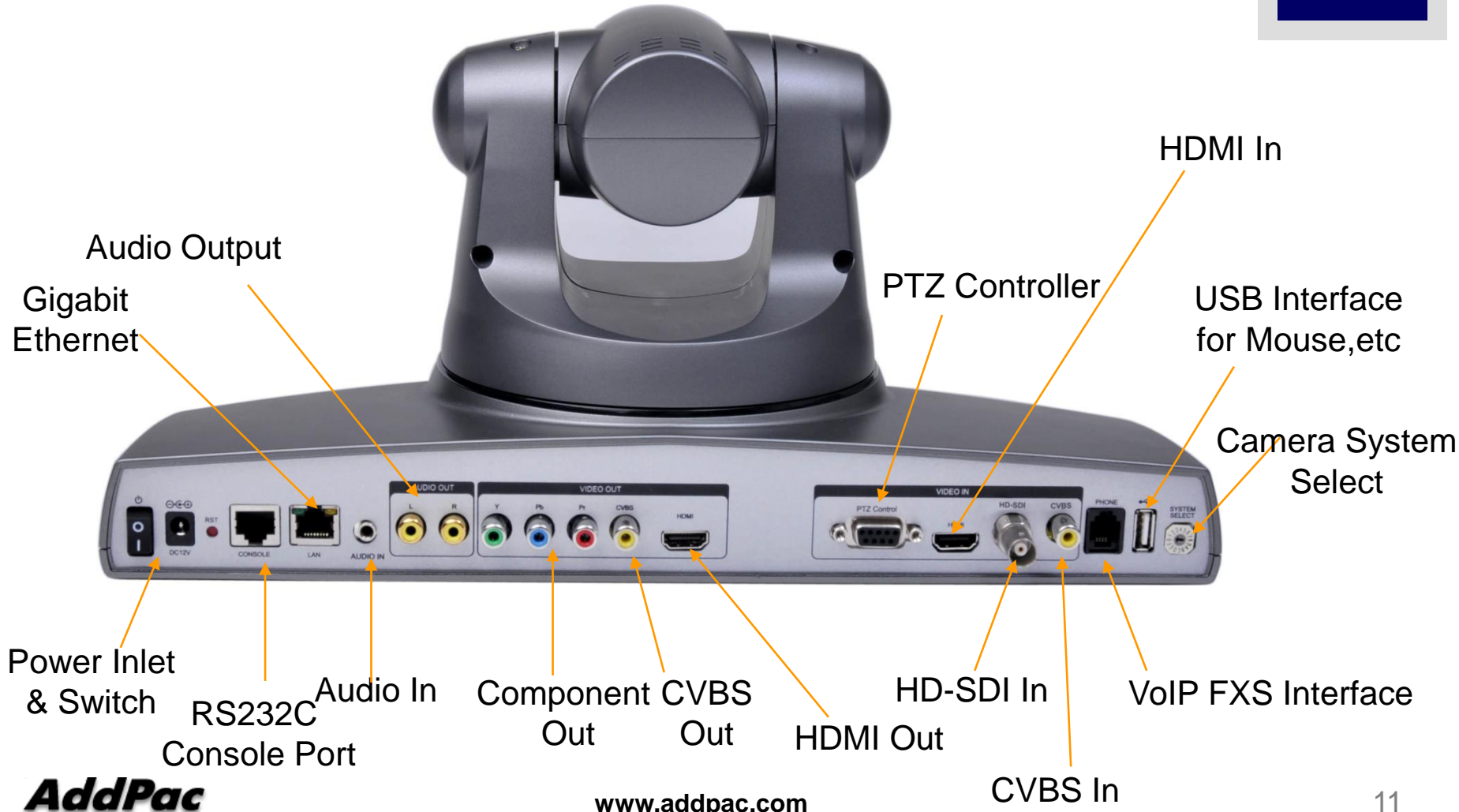
Software Service

- 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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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

AP-HVC600 Full HD Video Conference Equipment

- 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

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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

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Menu Control Mode

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

Menu Bar Indication ICON

Function Key List for Soft-key

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Dialing OSD

Conversation View Mode

Remote Site View

PIP : Local Site View

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Conversation View Mode

Remote Site Full Screen View

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Display Layout Control Mode

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KeyPad Menu for Dialing Number

Phone Book OSD Menu
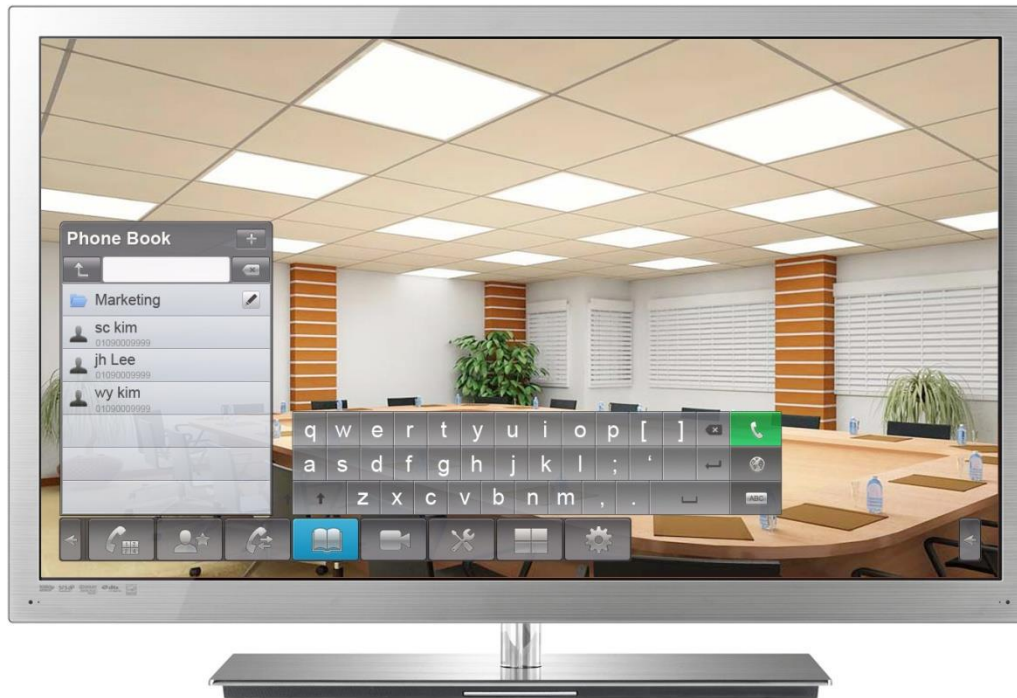
Phone Book OSD Menu : New Contact

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Recent Call OSD Menu

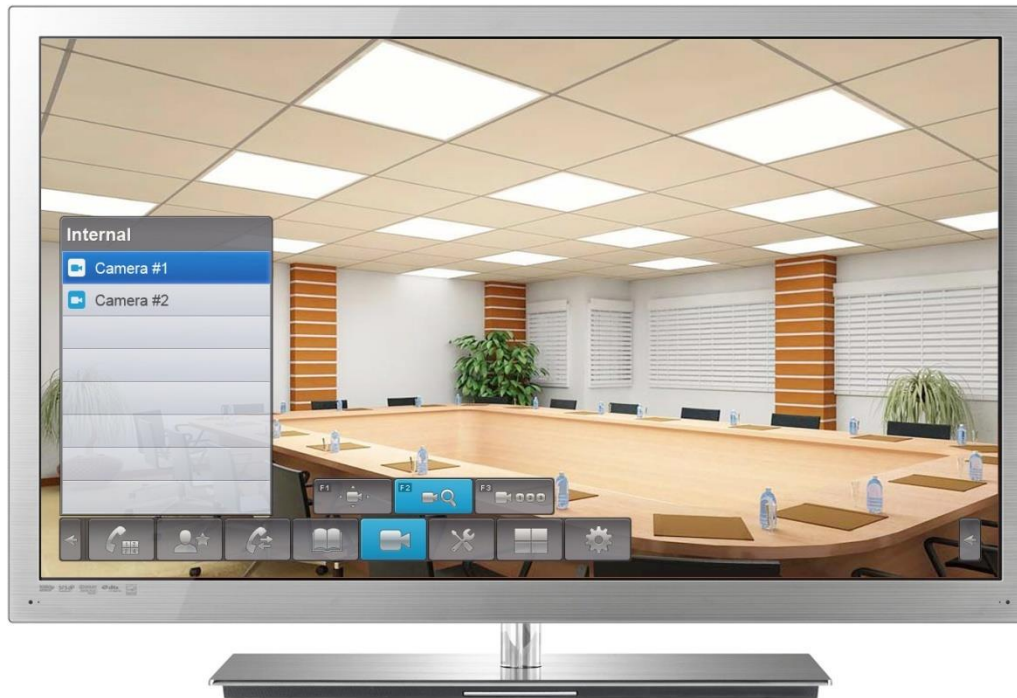# Tools OSD Menu

Codec Configuration
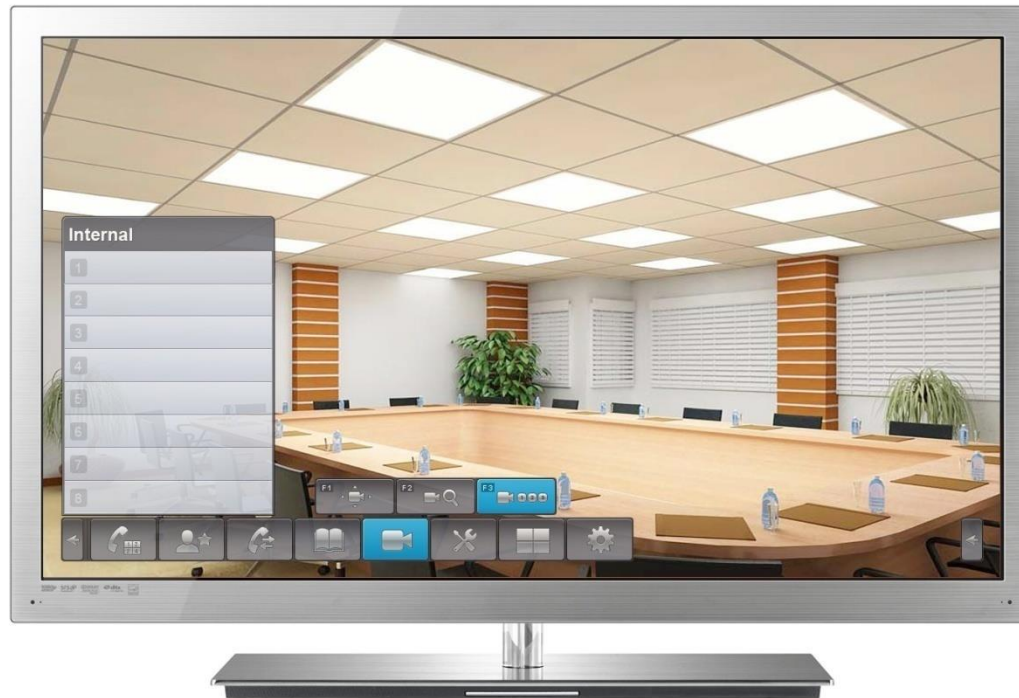
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Status Indication Bars OSD

Status Bars

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PTZ Control : Camera #1

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PTZ Control : Camera Select

PTZ Control : Preset Setting

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AP-HVC600 Full HD Video Conference Equipment

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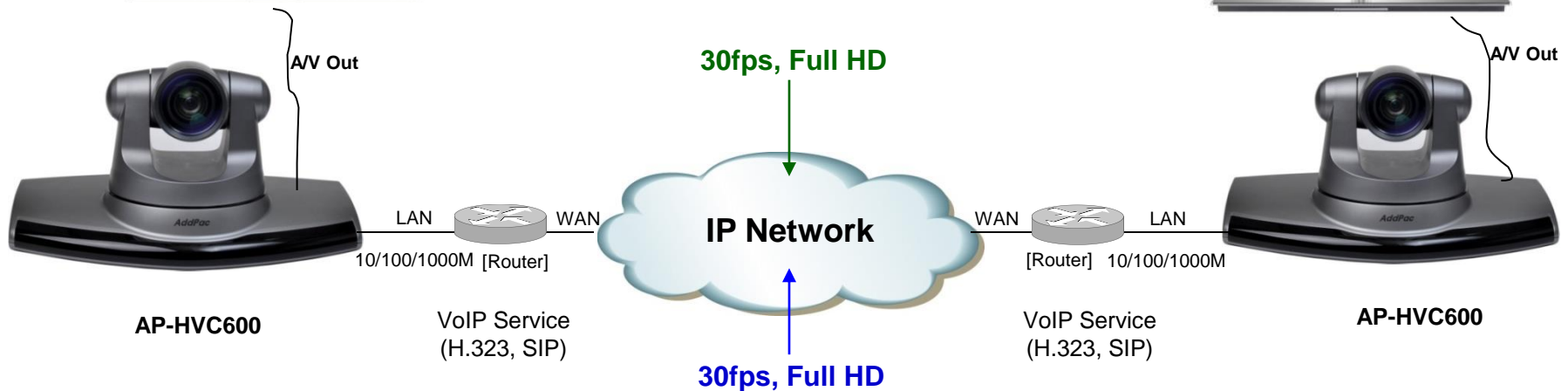- Video Conference

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Video Telephony Application

AP-HVC600 Full HD Video Conference Equipment

H.264, 1080p, 30frame

H.264, 1080p, 30frame

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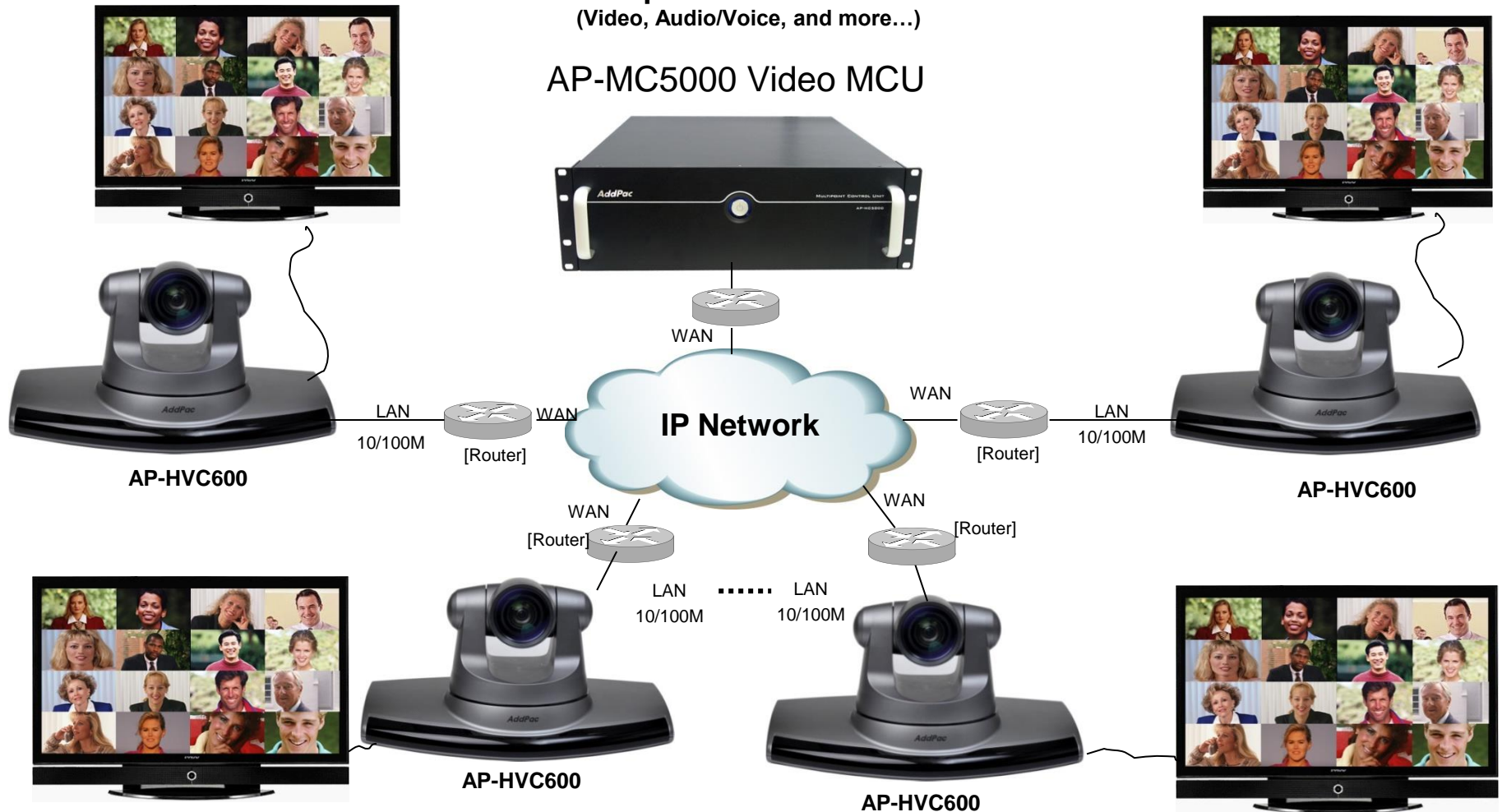(symmetric video quality)

A/V Out

30fps, Full HD

A/V Out

LAN

WAN

IP Network

WAN

LAN

10/100/1000M [Router]

[Router]   10/100/1000M

AP-HVC600

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

AP-HVC600

30fps, Full HD

Multimedia Service
(Video, Audio/Voice, and more…)
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Video Conference
AP-HVC600 Full HD Video Conference Equipment

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

AP-MC5000 Video MCU

WAN

IP Network

LAN
10/100M
[Router]
WAN

WAN
LAN
10/100M
[Router]

AP-HVC600

AP-HVC600

WAN
[Router]

WAN
[Router]

LAN
10/100M

LAN
10/100M

AP-HVC600

AP-HVC600

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Ordering Information

- AP-HVC600 Full HD Video Conference Equipment
  - AP-HVC600 Full HD Video Conference Equipment
  - Including Network Cable Set & Power Supply Cable, etc.
- Built-in APOS Internetworking Software for AP-HVC600
- 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

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Thank you!

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