AP-HVC1000 Full HD Video Conference Equipment

High Performance Two(2)-Channel Full HD Video Conference Solution

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
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- Application Area
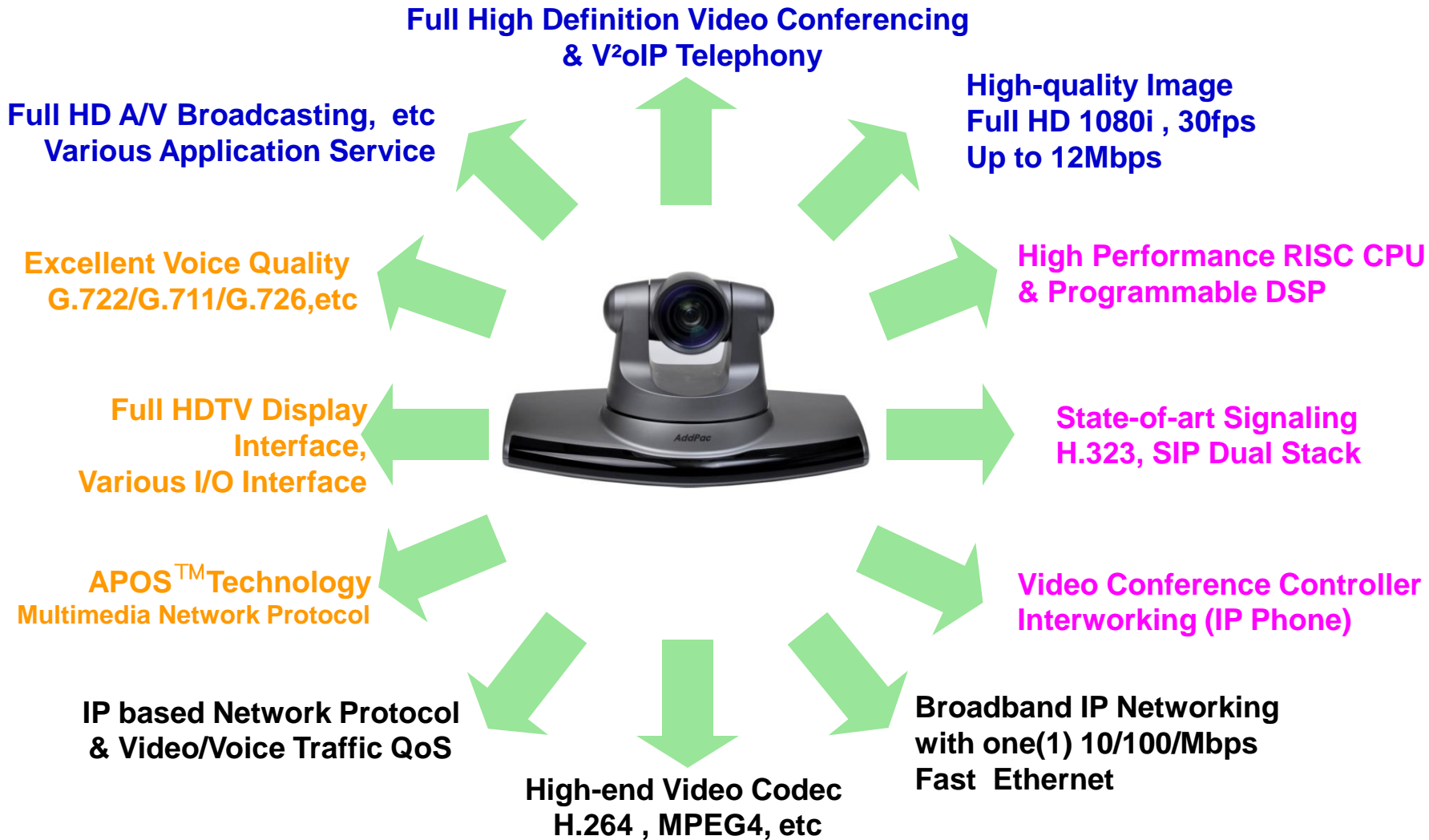- Ordering Information

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Product Overview

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

- 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
- Second Video Interface for Document Sharing, Camera, etc
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
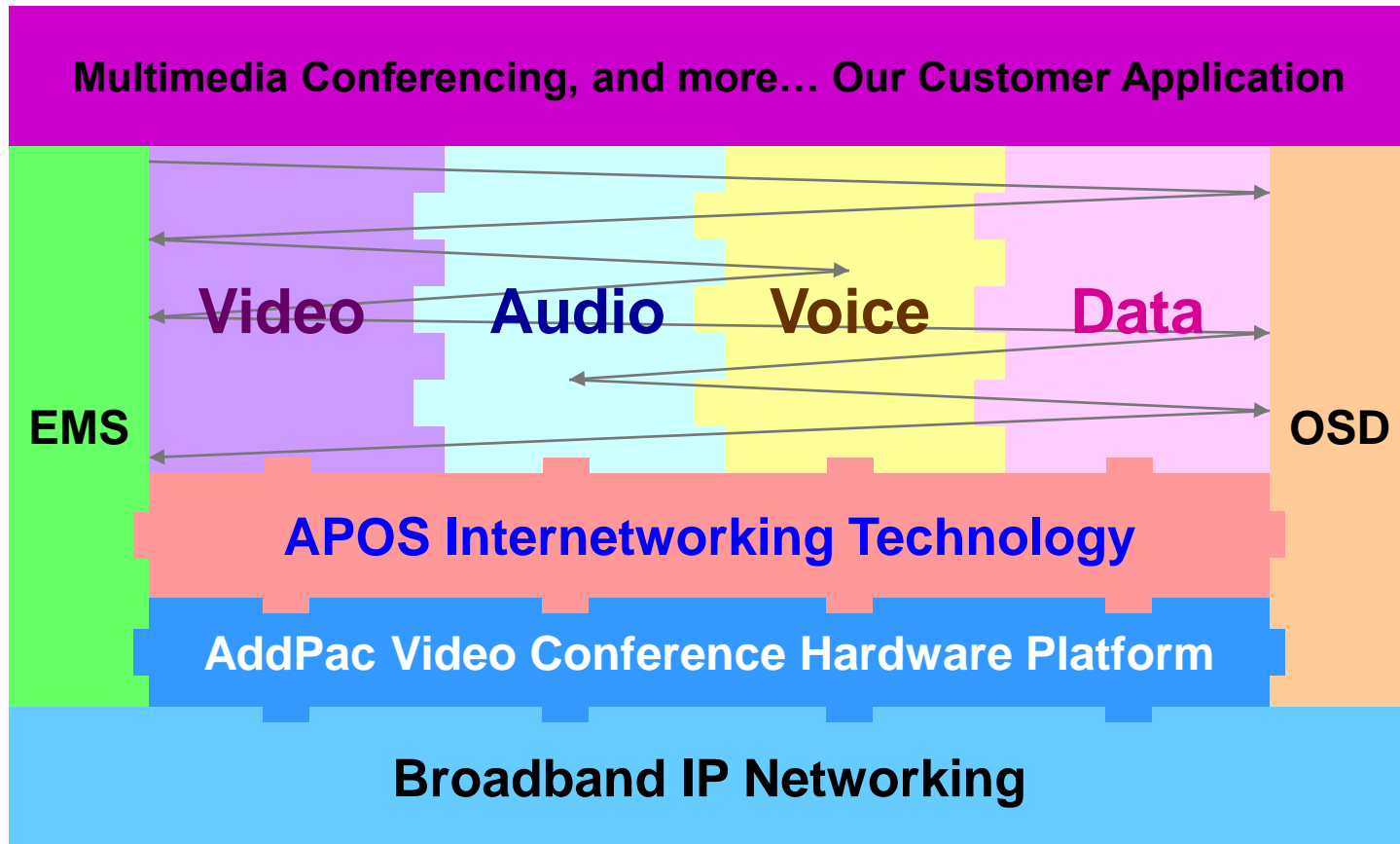- Audio/Video Privacy Protection

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Product Highlights

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

Excellent Voice Quality 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/Mbps Fast Ethernet

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

High
Performance
CPU

High-end
DSP

- 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

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Hardware Specification

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

High
Performance
CPU

High-end
DSP

- 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

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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

Hardware Specification

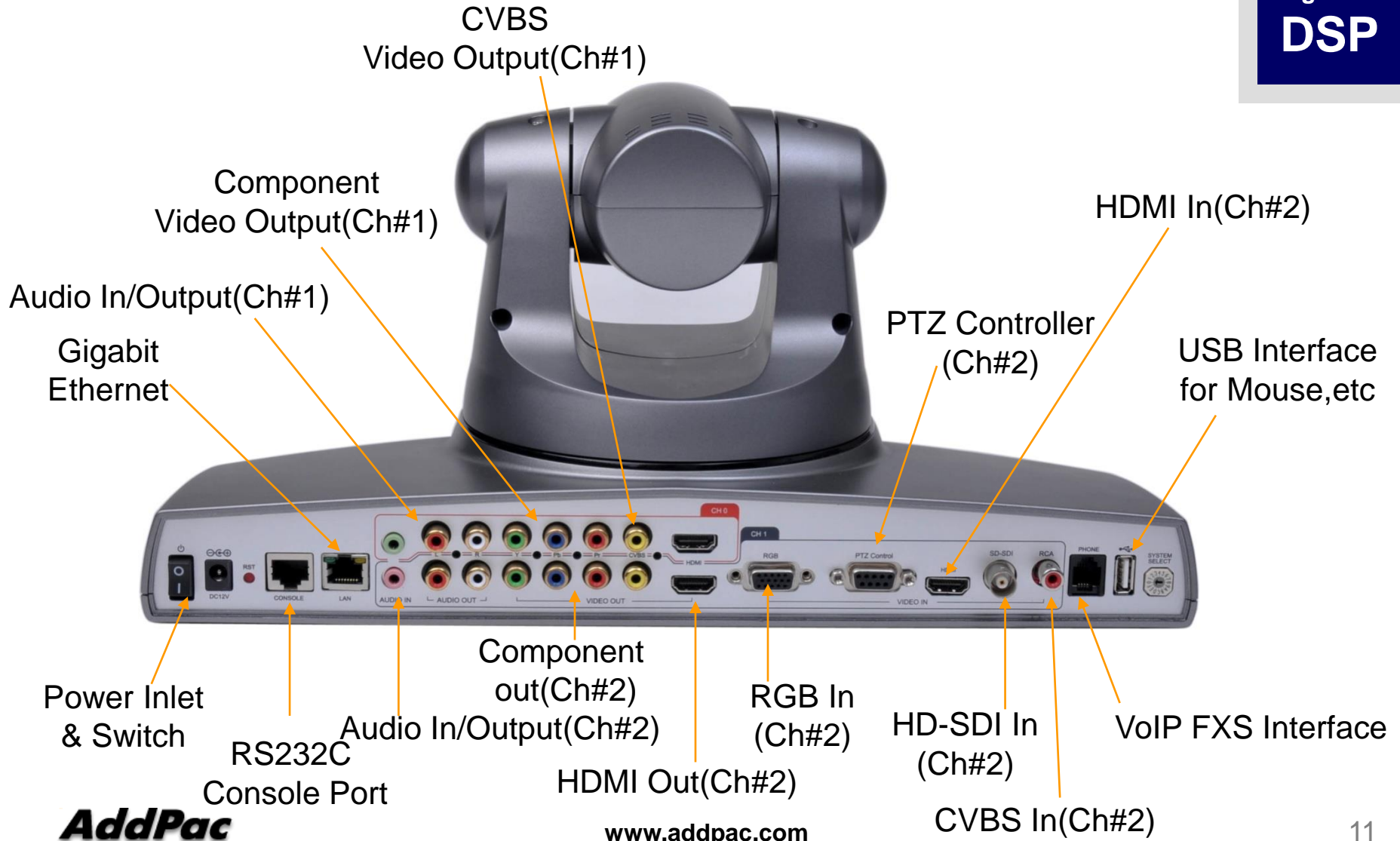AP-HVC1000 Two(2)-Channel Full HD Video Conference Equipment

Full HD Camera

IR Sensor & Status Indication Area

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Hardware Specification

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

High Performance CPU

High-end DSP

CVBS Video Output(Ch#1)

Component Video Output(Ch#1)

Audio In/Output(Ch#1)

Gigabit Ethernet

HDMI In(Ch#2)

PTZ Controller (Ch#2)

USB Interface for Mouse,etc

Power Inlet & Switch

RS232C Console Port

Audio In/Output(Ch#2)

Component out(Ch#2)

HDMI Out(Ch#2)

RGB In (Ch#2)

HD-SDI In (Ch#2)

CVBS In(Ch#2)

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
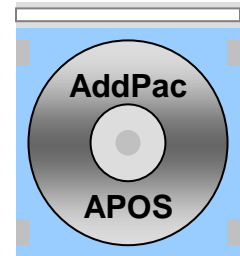
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APOS

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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

- 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 Features

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Application Area

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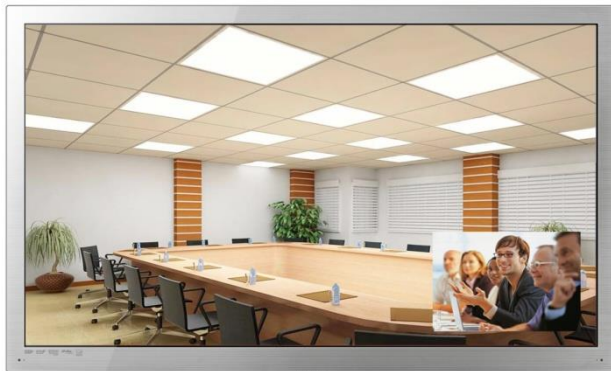- Video Telephony + Video Broadcasting
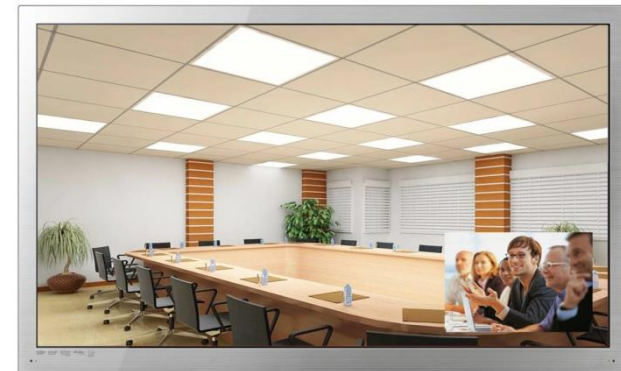- Video Conference

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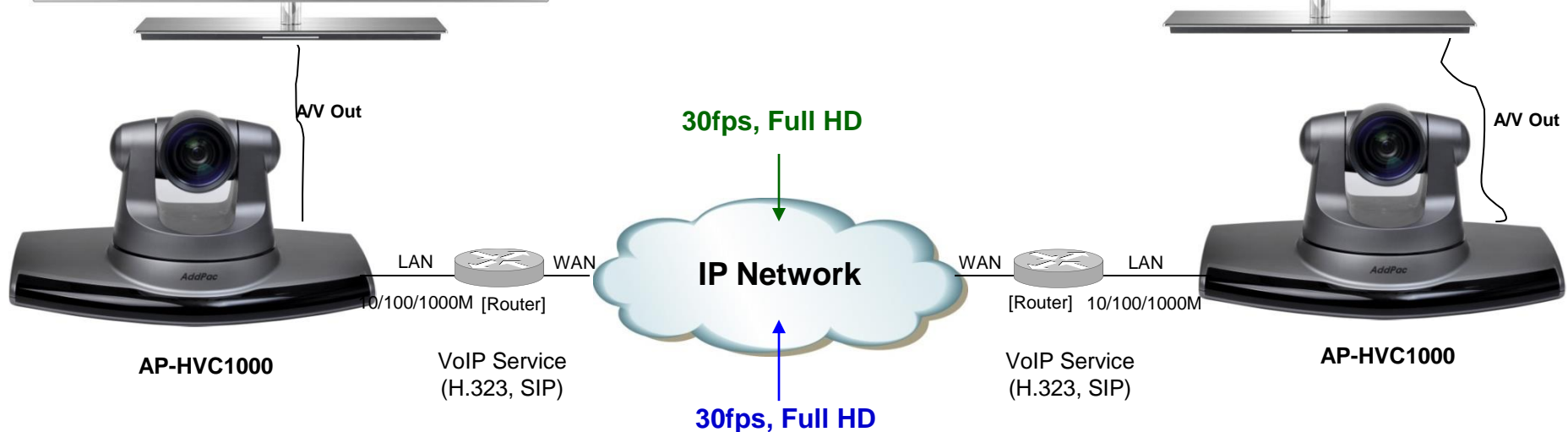
AP-HVC1000 Two(2)-Channel Full HD Video Conference Equipment

H.264, 1080i, 30frame

H.264, 1080i, 30frame

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

A/V Out

A/V Out

30fps, Full HD

LAN

WAN

IP Network

WAN

LAN

10/100/1000M [Router]

[Router] 10/100/1000M

AP-HVC1000

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

AP-HVC1000

30fps, Full HD

Multimedia Service
(Video, Audio/Voice, and more…)
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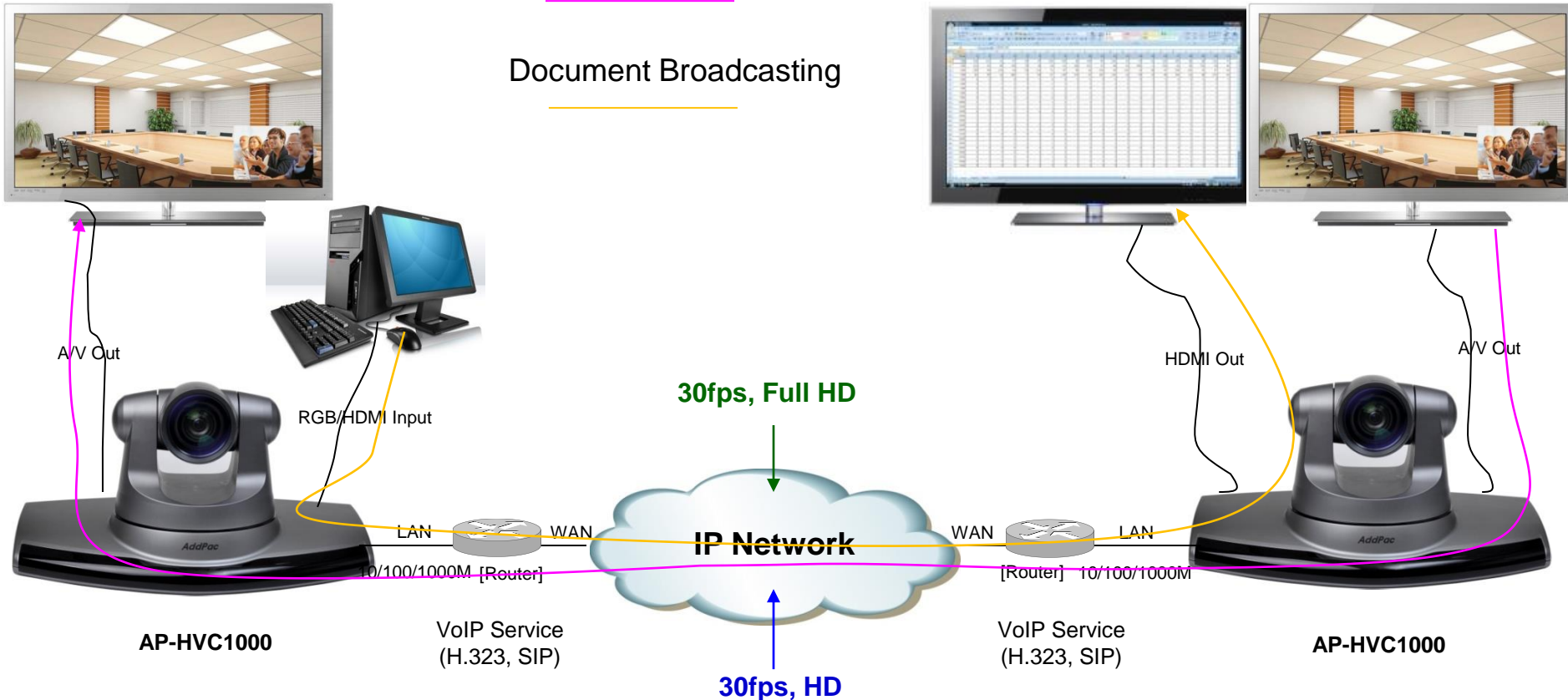
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Video Telephony + Document Broadcasting

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

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

Document Broadcasting

H.264, 1080i, 30frame

H.264, 1080i, 30frame

A/V Out

HDMI Out

A/V Out

RGB/HDMI Input

30fps, Full HD

LAN   WAN   **IP Network**   WAN   LAN

10/100/1000M [Router]   [Router]   10/100/1000M

30fps, HD

AP-HVC1000

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

AP-HVC1000

Multimedia Service
(Video, Audio/Voice, and more…)
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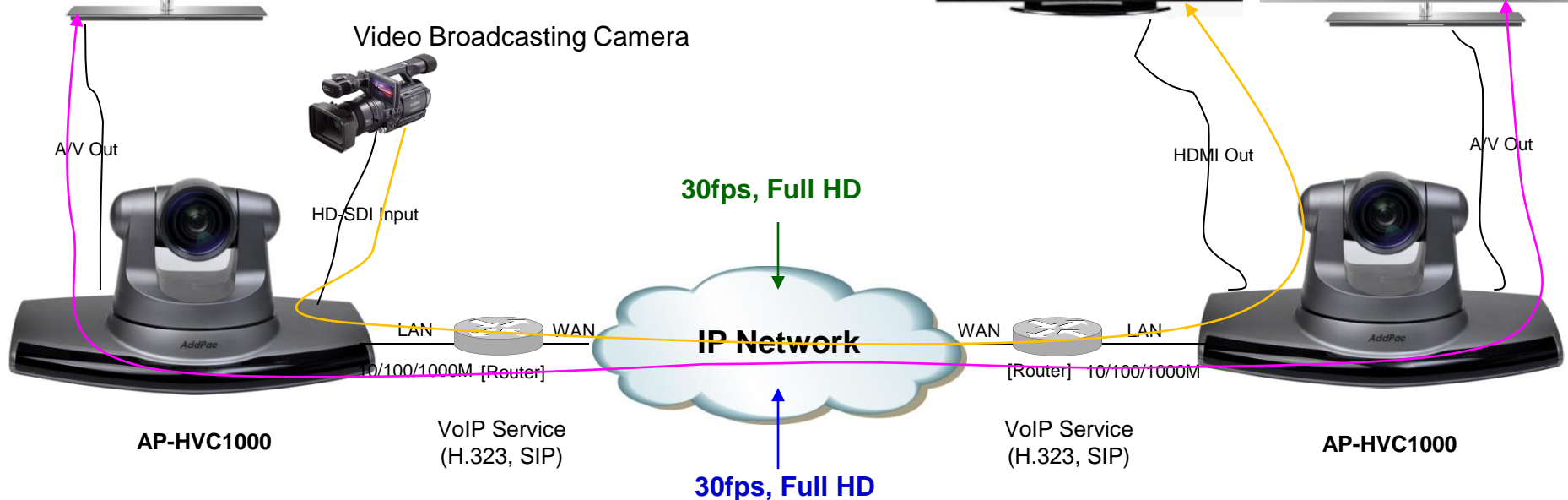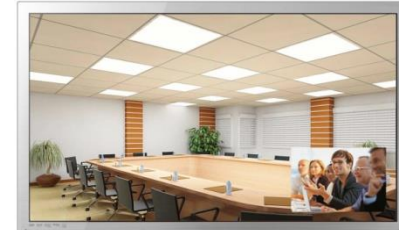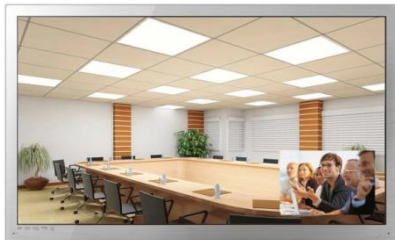# Video Telephony + Video Broadcasting

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

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

Video Broadcasting

H.264, 1080i, 30frame

H.264, 1080i, 30frame

A/V Out

Video Broadcasting Camera

HD-SDI Input

HDMI Out

A/V Out

30fps, Full HD

LAN   WAN   **IP Network**   WAN   LAN

10/100/1000M [Router]   [Router] 10/100/1000M

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

AP-HVC1000

AP-HVC1000

30fps, Full HD

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

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

AP-MC5000 Video MCU

WAN

IP Network

WAN

LAN
10/100M

WAN

[Router]

WAN

LAN
10/100M

[Router]

AP-HVC1000
Full HD Video Codec

AP-HVC1000
Full HD Video Codec

WAN
[Router]

WAN
[Router]

LAN
10/100M

LAN
10/100M

AP-HVC1000
Full HD Video Codec

AP-HVC1000
Full HD Video Codec

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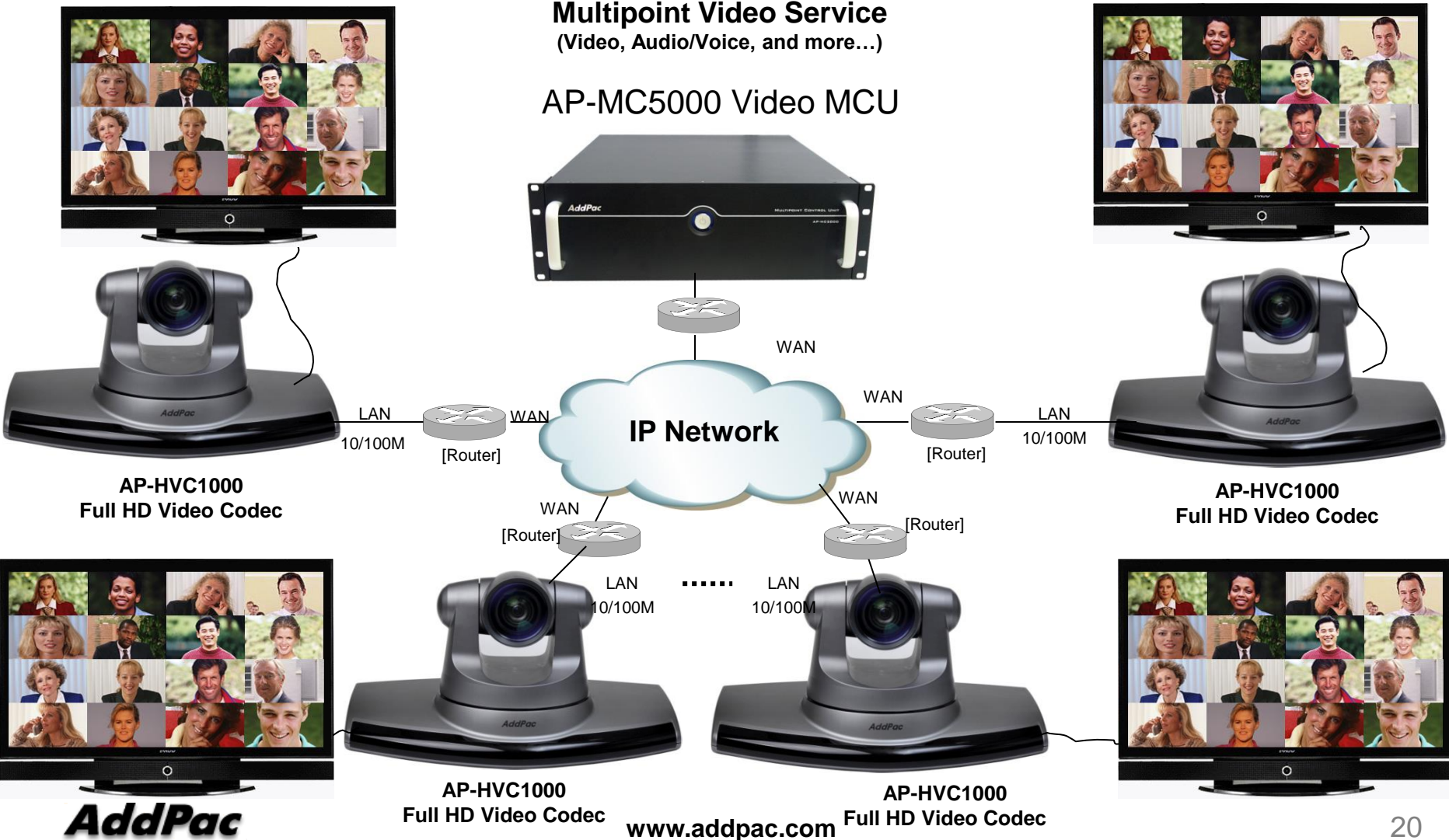
Ordering Information

- AP-HVC1000 Two(2) Channel Full HD Video Conference Equipment
    - AP-HVC1000 Full HD Video Conference Equipment
    - Including Network Cable Set & Power Supply Cable, etc.
- Built-in APOS Internetworking Software for AP-HVC1000
- 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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Sales and Marketing

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