

AP-HCC1000

Two(2)-Channel Full HD Video Conference Codec

High Performance Full HD Video Conference Solution



AP-MP100
AEC Microphone



AP-HCC1000
Full HD Video Codec



AP-HDC100
Full HD
Camera

Product Overview

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

AddPac

AddPac Technology

Sales and Marketing

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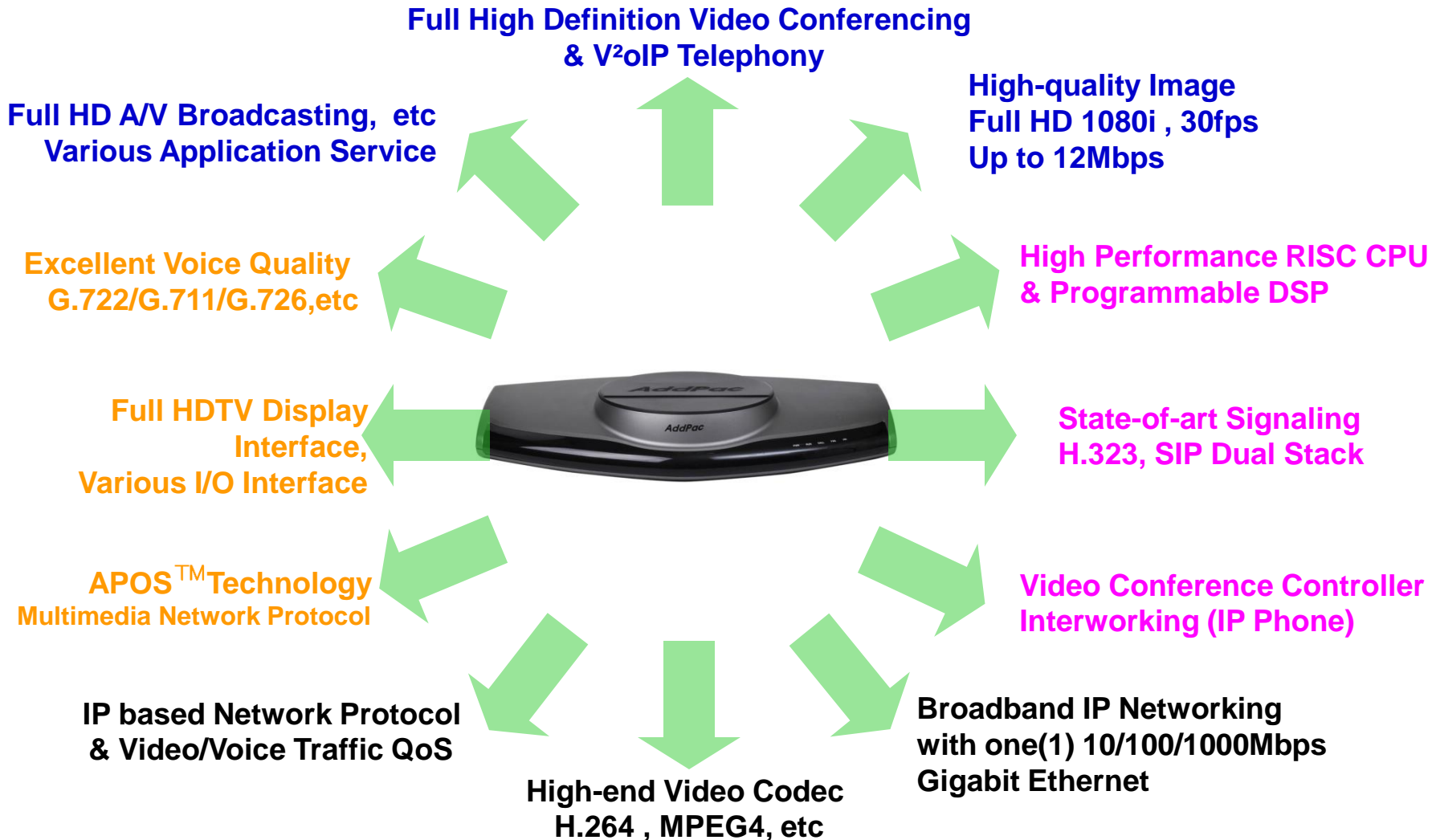
Product Overview

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

- IP based Video Conference Solution
- High-End Full HD Video Conference Codec Features
- Two(2)-Channel Full HD Video Conference Codec
- External Full HD Video Conference Camera (ex: AP-HDC100)
 - 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
- 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

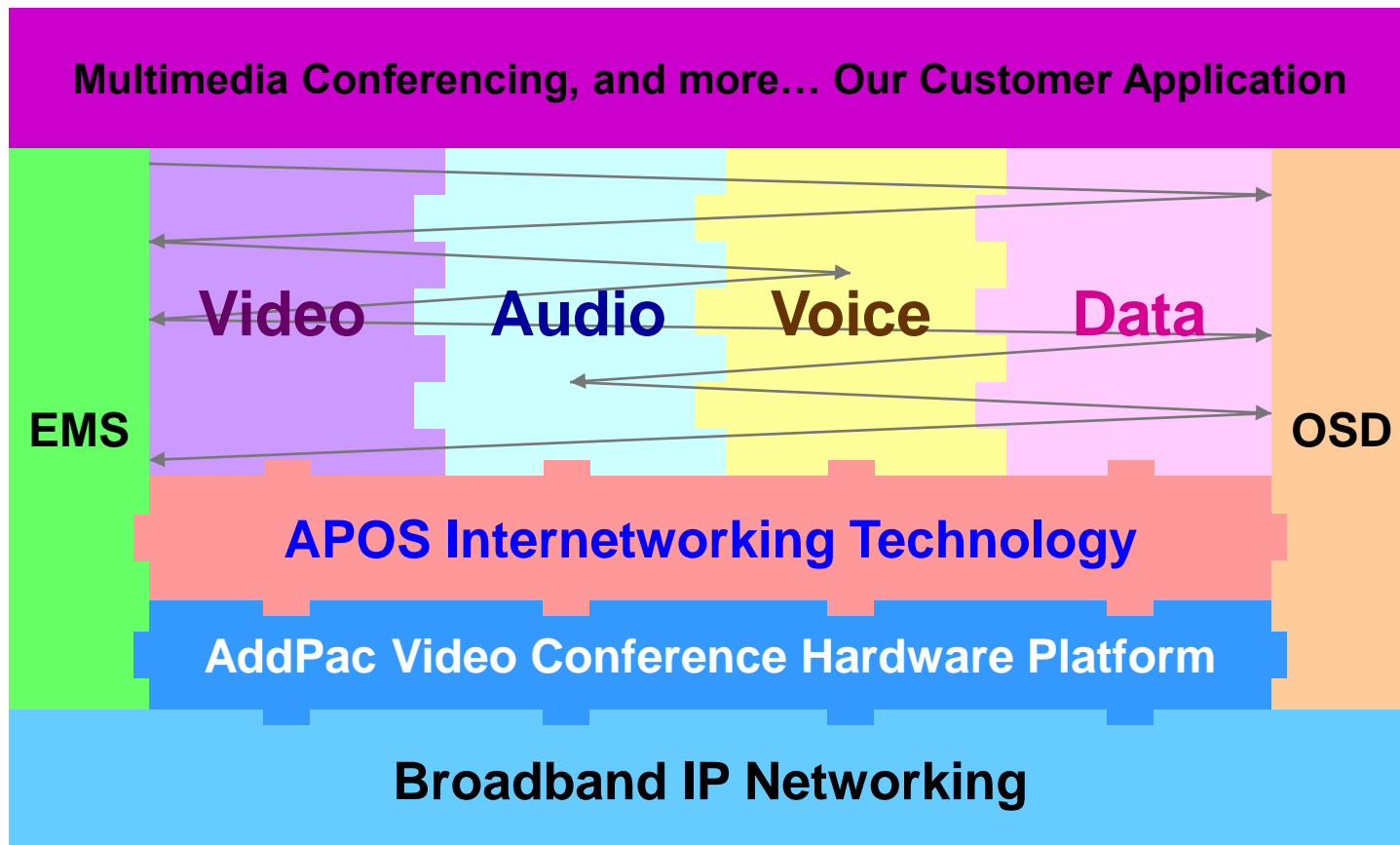
Product Highlights

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec



Multimedia Service

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec



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

Benefits and Features

AP-HCC1000 Full HD Video Conference Codec

- 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

Hardware Specification (AP-HCC1000 Full HD Codec)

Hardware Specification

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

High
Performance
CPU

High-end
DSP

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

| | | |
|--------|--------------|---|
| CH # 1 | Video Input | 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 |
| CH # 2 | 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-HCC1000 Two(2)-Channel Full HD Video Conference Codec

- 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
- External IrDA Connector
- Power On/Off Switch

Full HD Video Conference Camera






HD Video Conference Camera

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

- 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

HD Video Conference Camera

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

| Product | AP-HDC50 | AP-HDC100 | AP-HDC200 | AP-HDC300 | AP-HDC350 |
|-----------------------|---|---|--|---|---|
| |  |  |  |  |  |
| Sensor | CCD | CMOS | CCD | CMOS | CMOS |
| Optical Zoom | x18 | x10 | x18 | x10 | x20 |
| Video Resolution | HD 720P(1280x720) | Full HD 720P, 1080i | HD 720P(1280x720) | Full HD 720P, 1080i | Full HD 720P, 1080i, 1080p |
| Video Output | HDMI, HD-SDI, Component, RCA | HDMI, HD-SDI, Component, RCA | HDMI, HD-SDI, Component, RCA | HDMI, HD-SDI, Component, RCA | HDMI, HD-SDI, Component, RCA |
| PTZ Control | Support | Support | Support | Support | Support |
| PTZ Control Interface | RS232/RS485 | RS232/RS485 | RS232/RS485 | RS232/RS485 | RS232/RS485 |
| Power | External Power Adaptor | External Power Adaptor | External Power Adaptor | External Power Adaptor | External Power Adaptor |

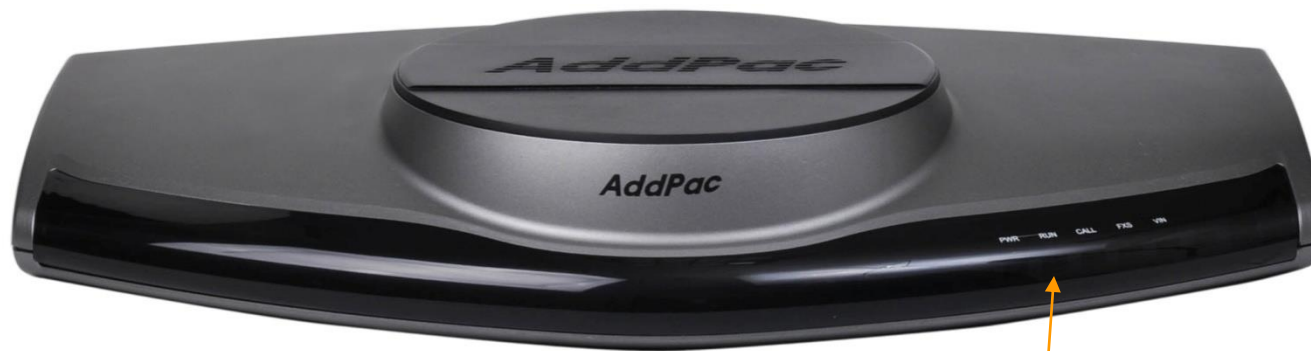
Hardware Specification

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

High
Performance
CPU

High-end
DSP

Front Side



IR Sensor & Status Indication Area

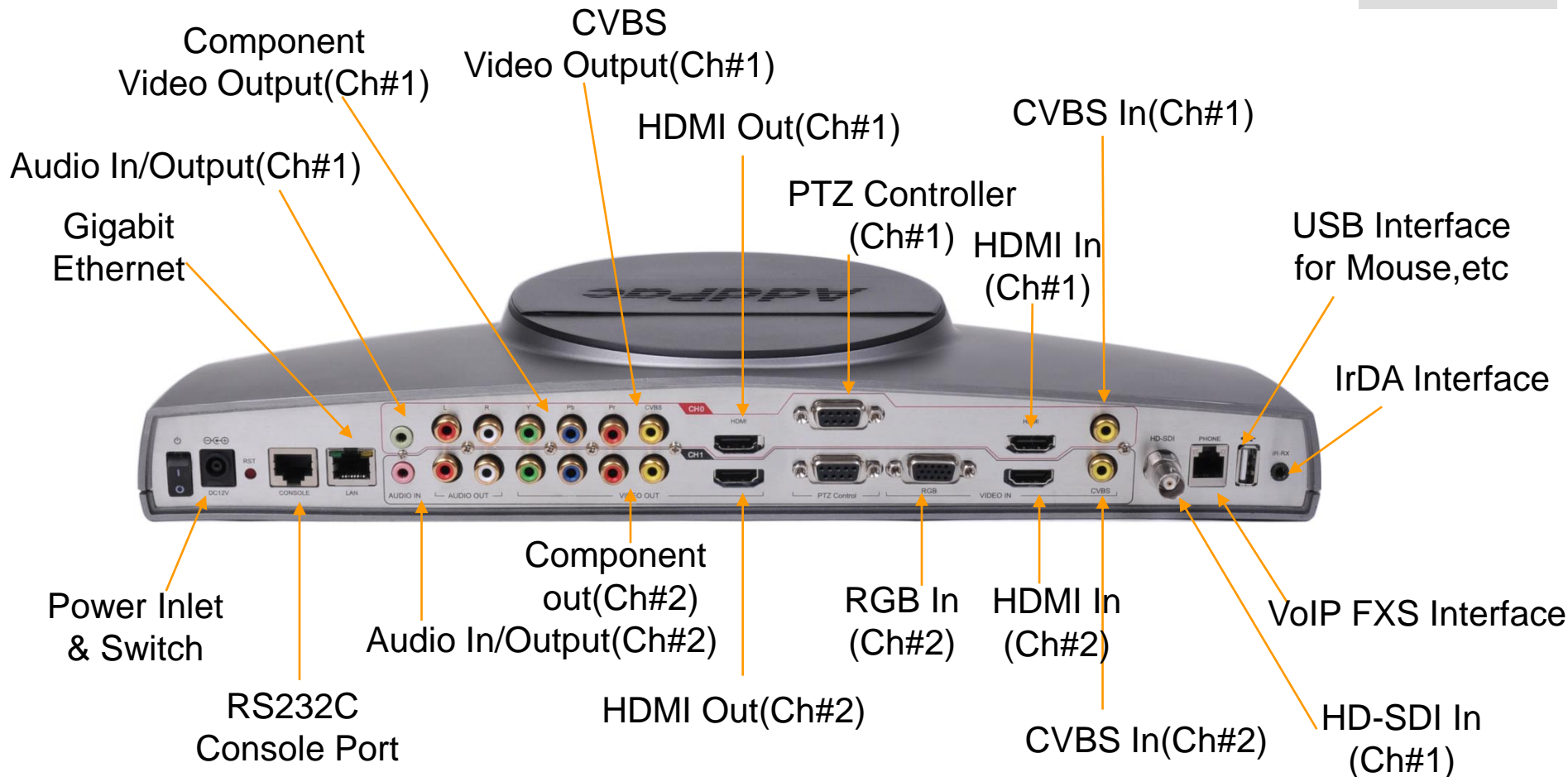
Hardware Specification

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

High Performance
CPU

High-end
DSP

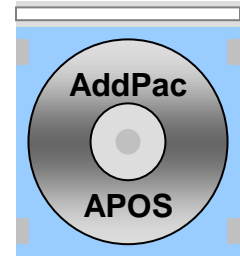
Back Side



Software Service

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

- 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



Network Service and Features

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

- **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-HVC1000 Two(2)-Channel Full HD Video Conference Codec

- 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



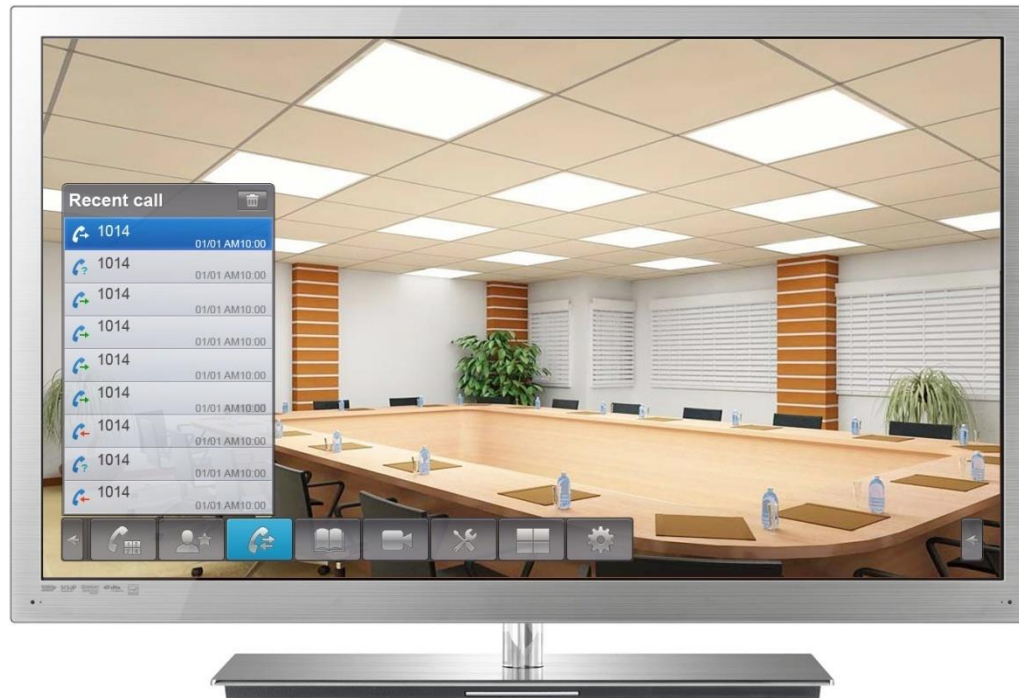
Phone Book OSD Menu



Phone Book OSD Menu : New Contact



Recent Call OSD Menu



Tools OSD Menu



Codec Configuration



Status Indication Bars OSD

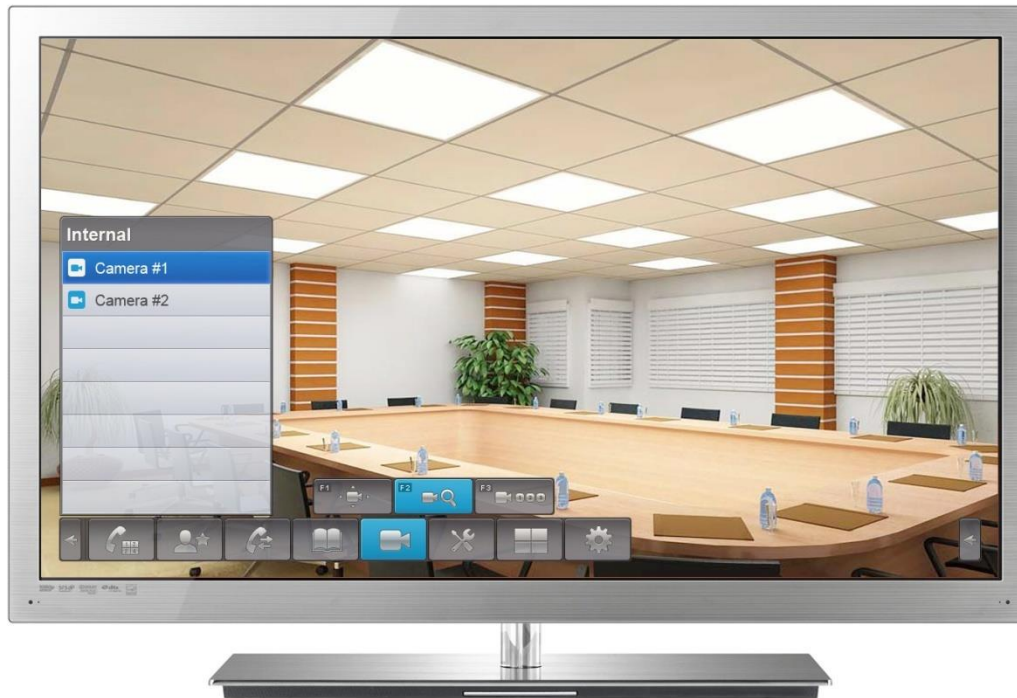
Status Bars



PTZ Control : Camera #1



PTZ Control : Camera Select



PTZ Control : Preset Setting



AP-HCC1000 Full HD Video Conference Codec

Application Area

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

Video Telephony Application

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

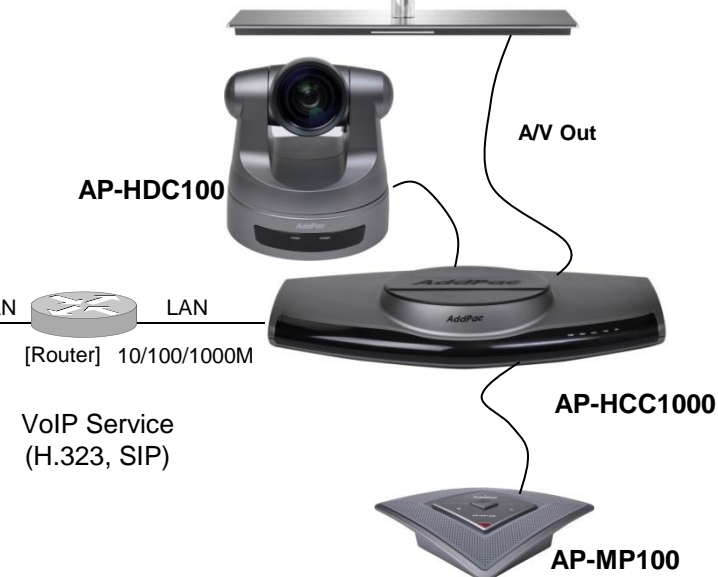
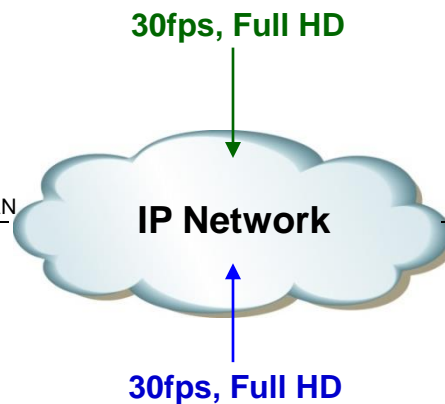
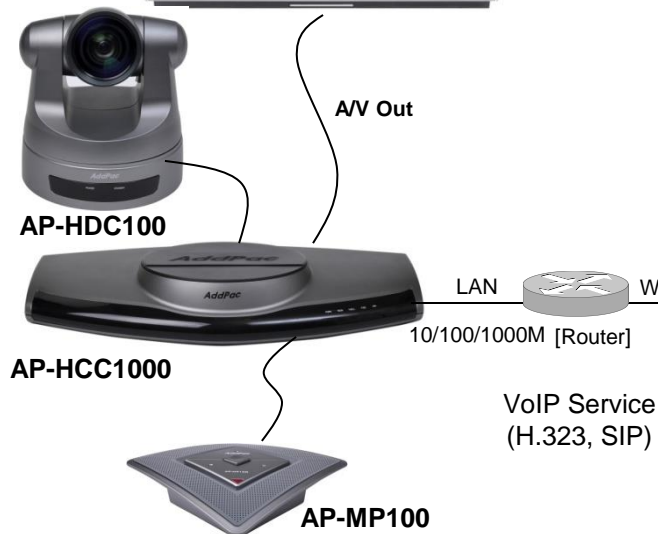
H.264, 1080i, 30frame



H.264, 1080i, 30frame



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



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

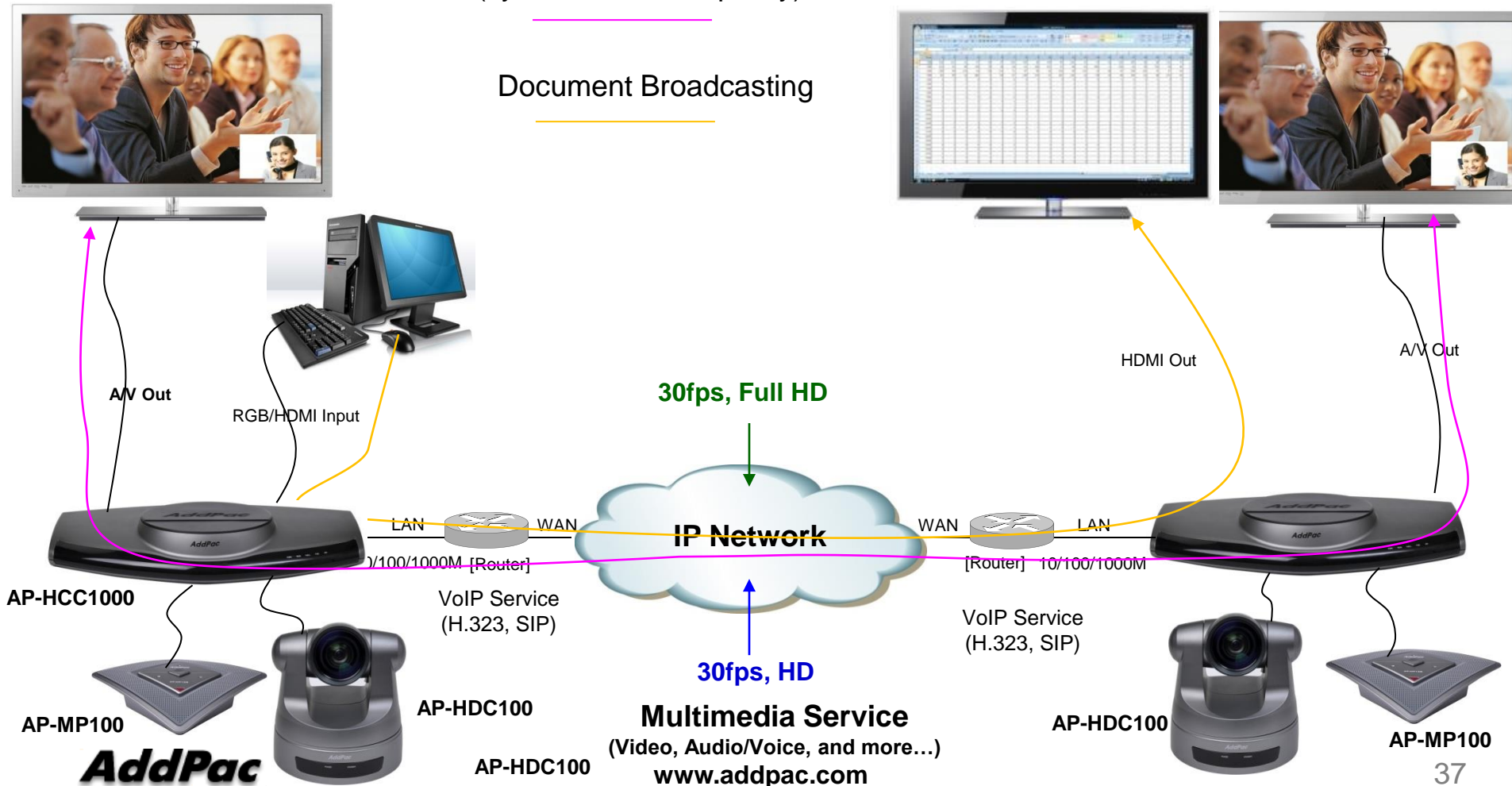
AP-HVC1000 Two(2)-Channel Full HD Video Conference Equipment

H.264, 1080i, 30frame

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

H.264, 1080i, 30frame

Document Broadcasting



Video Telephony + Video Broadcasting

AP-HCC1000 Two(2)-Channel Full HD Video Conference Equipment

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

H.264, 1080i, 30frame



H.264, 1080i, 30frame



Video Broadcasting

Video Broadcasting Camera



A/V Out

HD-SDI Input

HDMI Out

A/V Out

30fps, Full HD

IP Network

30fps, Full HD

LAN [Router] WAN

WAN [Router] LAN

VoIP Service
(H.323, SIP)

VoIP Service
(H.323, SIP)

Multimedia Service
(Video, Audio/Voice, and more...)
www.addpac.com

AP-HCC1000

AP-MP100

AP-HDC100

AddPac

AP-HDC100

AP-MP100

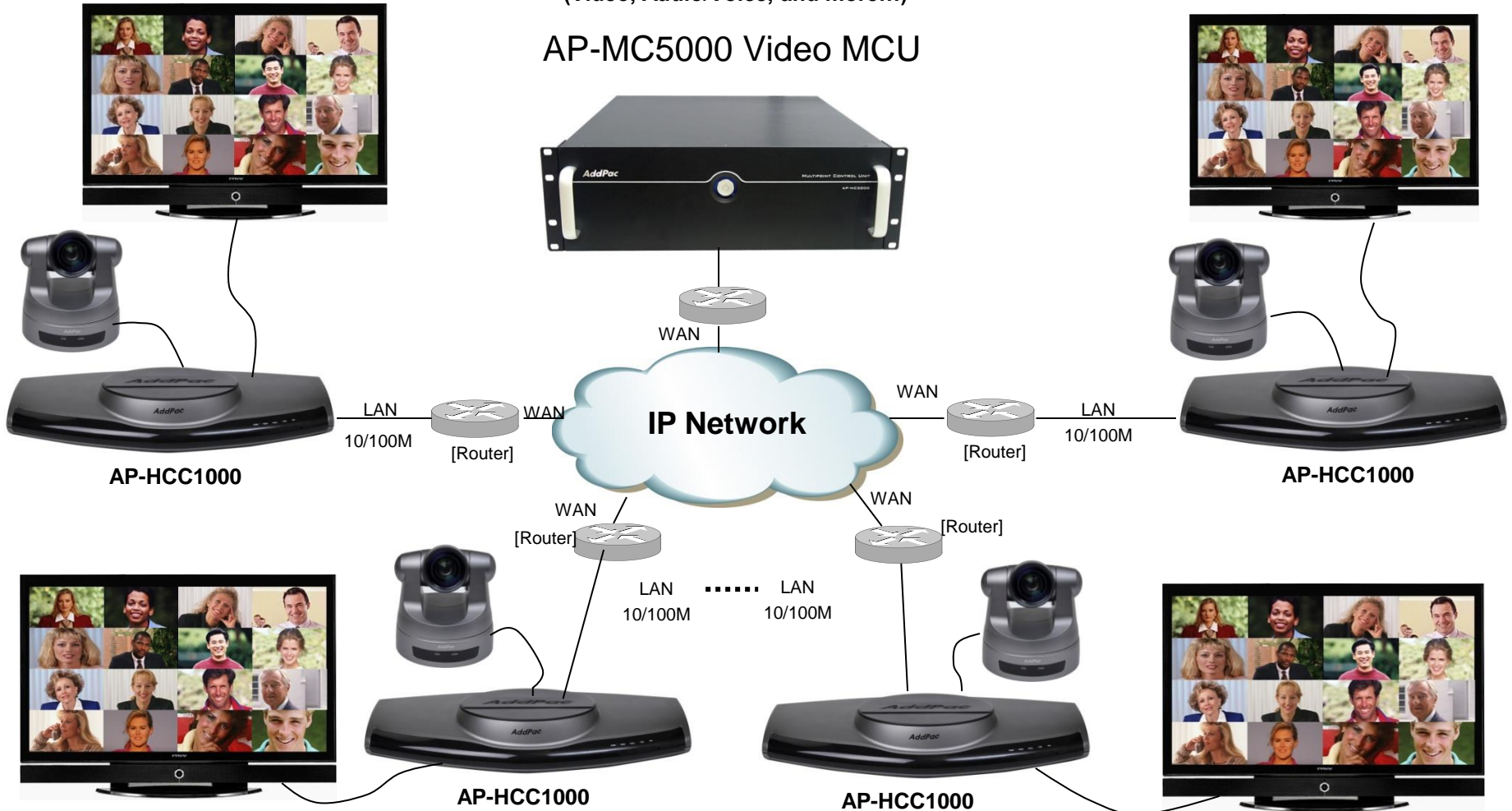
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Video Conference

AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec

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

AP-MC5000 Video MCU



Ordering Information

- AP-HCC1000 Full HD Video Conference Codec
 - AP-HCC1000 Two(2)-Channel Full HD Video Conference Codec
 - Including Network Cable Set & Power Supply Cable, etc.
 - Option : Video Conference HD Camera, Microphone
- Built-in APOS Internetworking Software for AP-HCC1000
- 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

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail sales@addpac.com