

AP-HMD300

Full HD Monitor Type

Video Conference Codec

High Performance Full HD Video Conference Solution



AddPac

AddPac Technology

Sales and Marketing

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AP-MP100
AEC Microphone

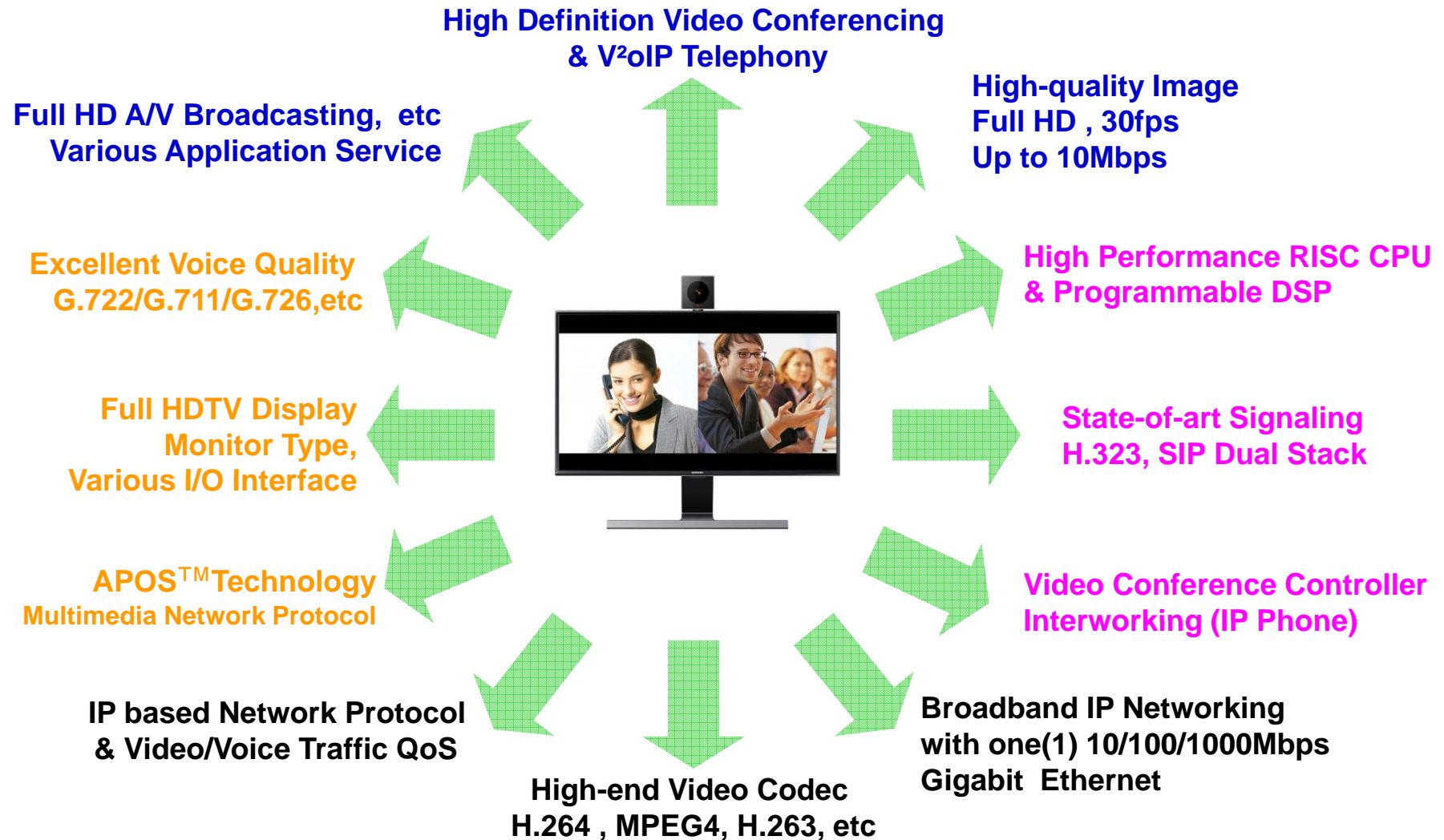
Product Overview

AP-HMD300 Full HD Monitor Type Video Codec

- IP based Full HD Video Conference Solution
- High-End Full HD Video Conference Codec Features
- Single Channel Full HD Video Conference Codec
- H.264 Video Codec, 1080p 30frame Support
- H.264, MPEG4, H.263 Video Codec Support
- External Full HD Monitor Type Video Camera (ex: AP-HDC20)
- External Acoustic Echo Canceller Microphone (AP-MP100)
- FXS Interface Support for Analog Phone, MIC Interface (Option)
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

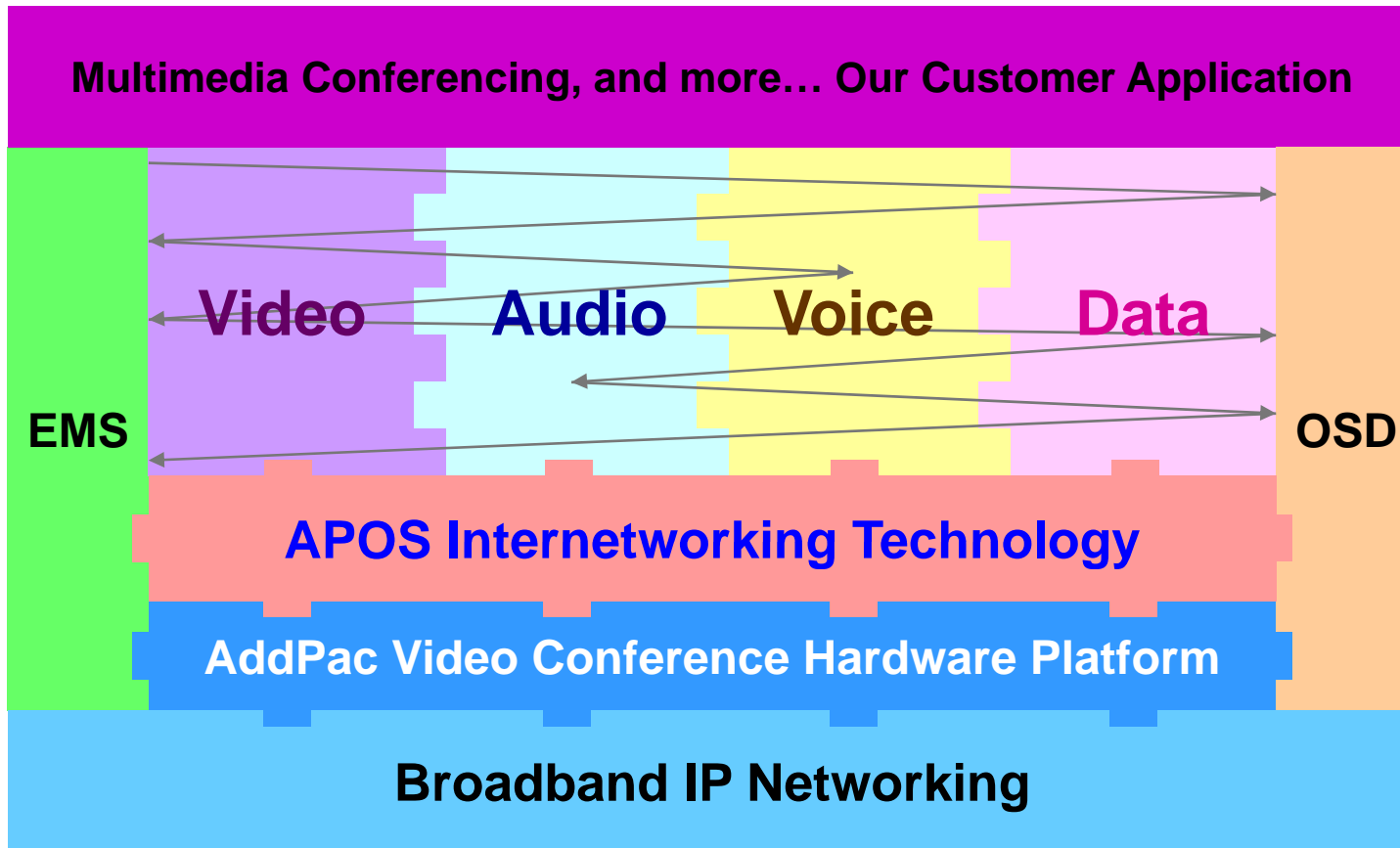
Product Highlights

AP-HMD300 Full HD Monitor Type Video Codec



Multimedia Service

AP-HCC350 Full HD Video Conference Codec



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

Benefits and Features

AP-HMD300 Full HD Monitor Type Video Codec

- Various Video Input/Output Interface
 - Video Input : HDMI, HD-SDI, AHD Camera
 - Video Output : HDMI (Monitor), HDMI(Secondary Output : Option)
- High-performance Video Codec Support
 - H.264, MPEG4, H.263, etc
- Powerful Image Resolution Support
 - CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480), 4CIF(704x576), 720P(1280x720), 1080P(1920x1080)
- Up to 30fps with Full HD-Resolution(H.264)
- 27Inch LCD Monitor with Internal Speaker (Default)
- 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-HMD300 Full HD Monitor Type Video Codec)

Hardware Specification

AP-HMD300 Full HD Monitor Type Video Codec

High
Performance
CPU

High-end
DSP

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

Video Input	External HD/Full HD Video Camera : HD-SDI, HDMI, AHD Camera(Optional)
Video Output	HDMI (Monitor), HDMI (Secondary Output : Option)
Audio Input	Stereo RCA Type Audio Input
Audio Output	RCA Type Audio Output (Left, Right)
PTZ Control (Option)	RJ45 RS-232C Pan/Tilt/Zoom PTZ Interface for External Full HD PTZ Camera

Hardware Specification

AP-HMD300 Full HD Monitor Type Video Codec

High
Performance
CPU

High-end
DSP

- 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

Hardware Specification

AP-HMD300 Full HD Monitor Type Video Codec

High Performance
CPU

High-end
DSP

AP-HD20
Full HD Video Camera



Full HD Video Codec

27Inch LCD Monitor with Internal Speaker (default)

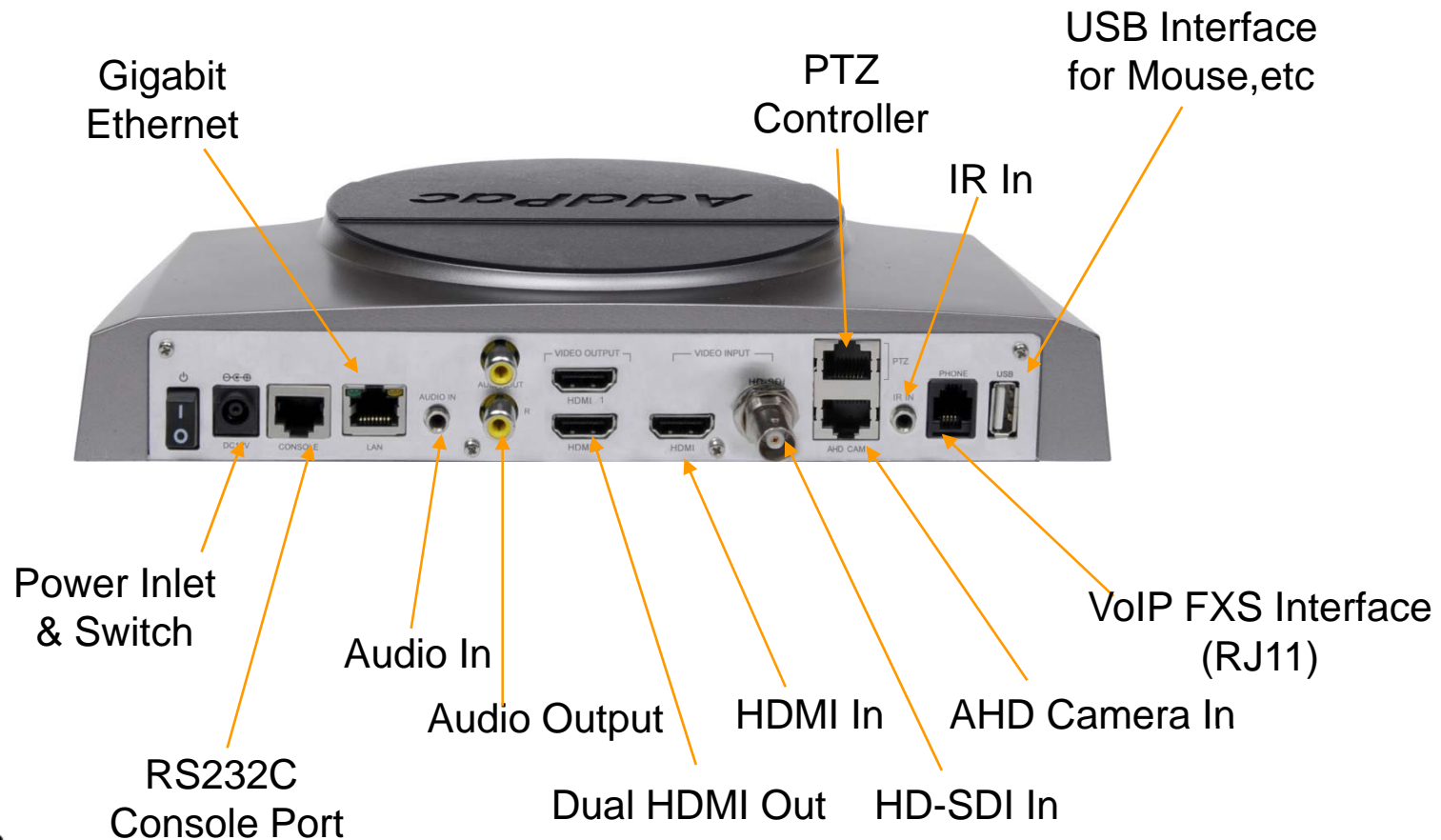
Hardware Specification

AP-HMD300 Full HD Monitor Type Video Codec

High Performance
CPU

High-end
DSP

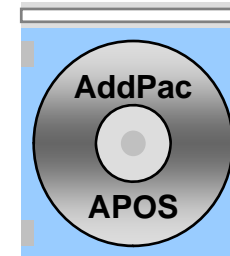
Full HD Video Codec



Software Service

AP-HMD300 Full HD Monitor Type Video 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-HMD300 Full HD Monitor Type Video 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-HMD300 Full HD Monitor Type Video 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



Full HD Video Camera (AP-HD20)

Full HD Video Camera (AP-HD20)

AP-HMD300 Full HD Monitor Type Video Codec

AP-HD20
Full HD Video Camera



Full HD Video Camera (AP-HD20)

AP-HMD300 Full HD Monitor Type Video Codec

Full HD Video Camera

- 1/2.9" 2.1 MegaPixel Sony CMOS Sensor
- Min.illumination of 0.0001 Lux (Sens-up)
- 1080P@30fps, [AHD2.0 / 720P@30fps](#), AHD1.0
- True Day & Night, D-WDR : Digital Wide Dynamic Range
- 2+3 DNR (Digital Noise Reduction) Function
- Sens-Up : x2~x30
- **Auto Focus Lens**



AEC Microphone (AP-MP100)

Product Overview

AP-MP100 AEC Micro Phone

- Acoustic Echo Canceller Micro Phone Solution for Video Conference
- Wide band(16bits, 16kHz sampling) operation
- Support CNG(comport noise generation) to generate white noise
- Support double talk
- Noise reduction algorithm
- Support HDMI speaker mode & analog speaker mode
- S/W upgrade by y-modem protocol via RS232C
- Support CLI(Command Line Interface) to configure AEC parameters
- Voice Activity Detection
- Mute button
- Status LED (Mute, Active)
- Compact Design & Die Casting
- Power On/Off Switch

Hardware Specification

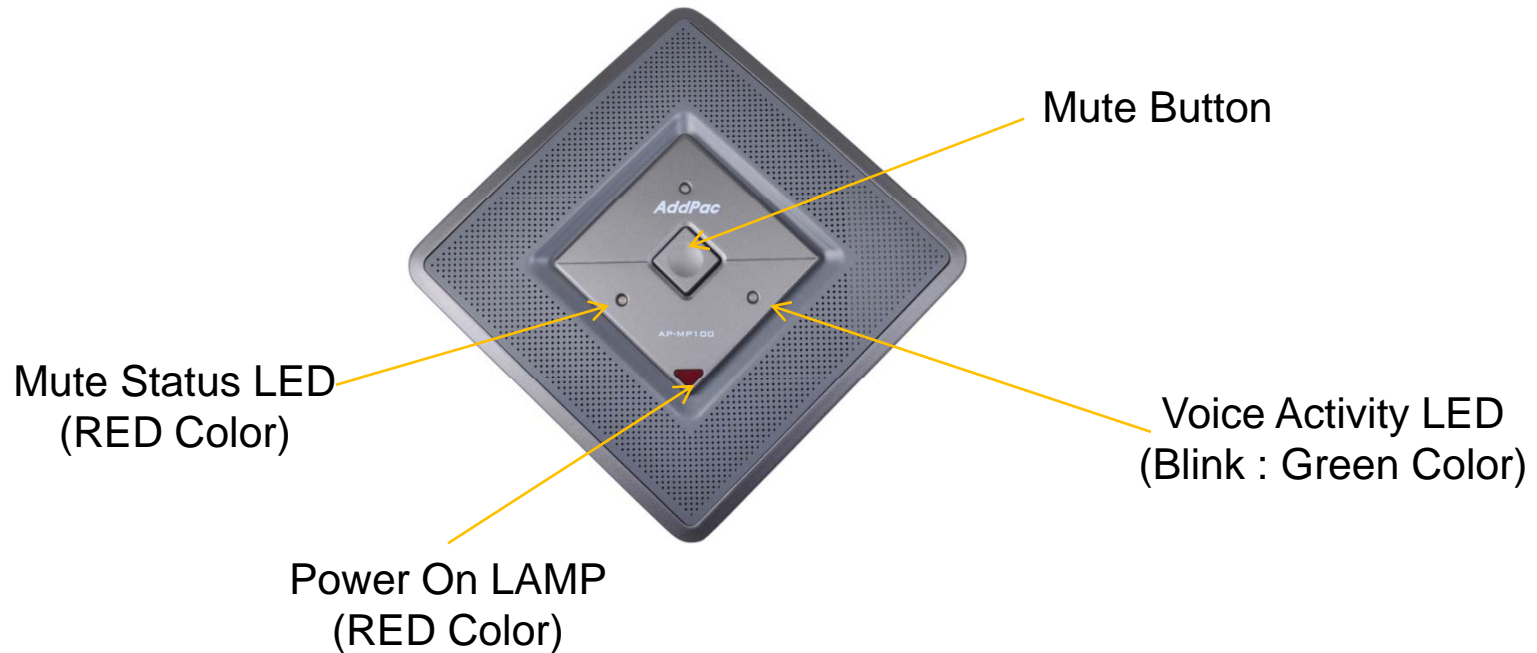
AP-MP100 AEC Micro Phone

- DSP based Acoustic Echo Canceller Hardware Architecture
- Status LED (Mute, Active)
- Audio Mute Key Support
- RS232C based Firmware Upgrade Architecture
- Compact Design & Die Casting
- Power On/Off Switch
- MIC Interface
 - Power Input
 - Audio Output



Hardware Specification

AP-MP100 AEC Micro Phone



Hardware Specification

AP-MP100 AEC Micro Phone





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



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



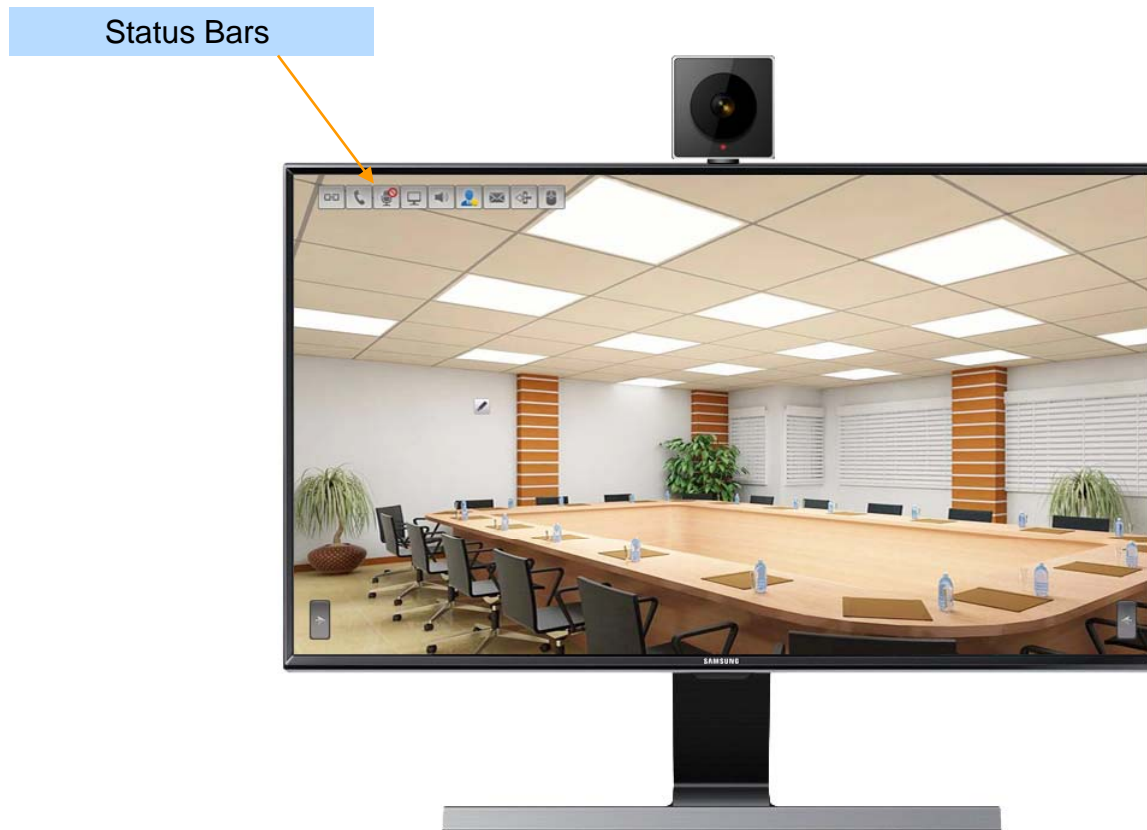
Tools OSD Menu



Codec Configuration



Status Indication Bars OSD



PTZ Control : Camera #1



PTZ Control : Camera Select



PTZ Control : Preset Setting



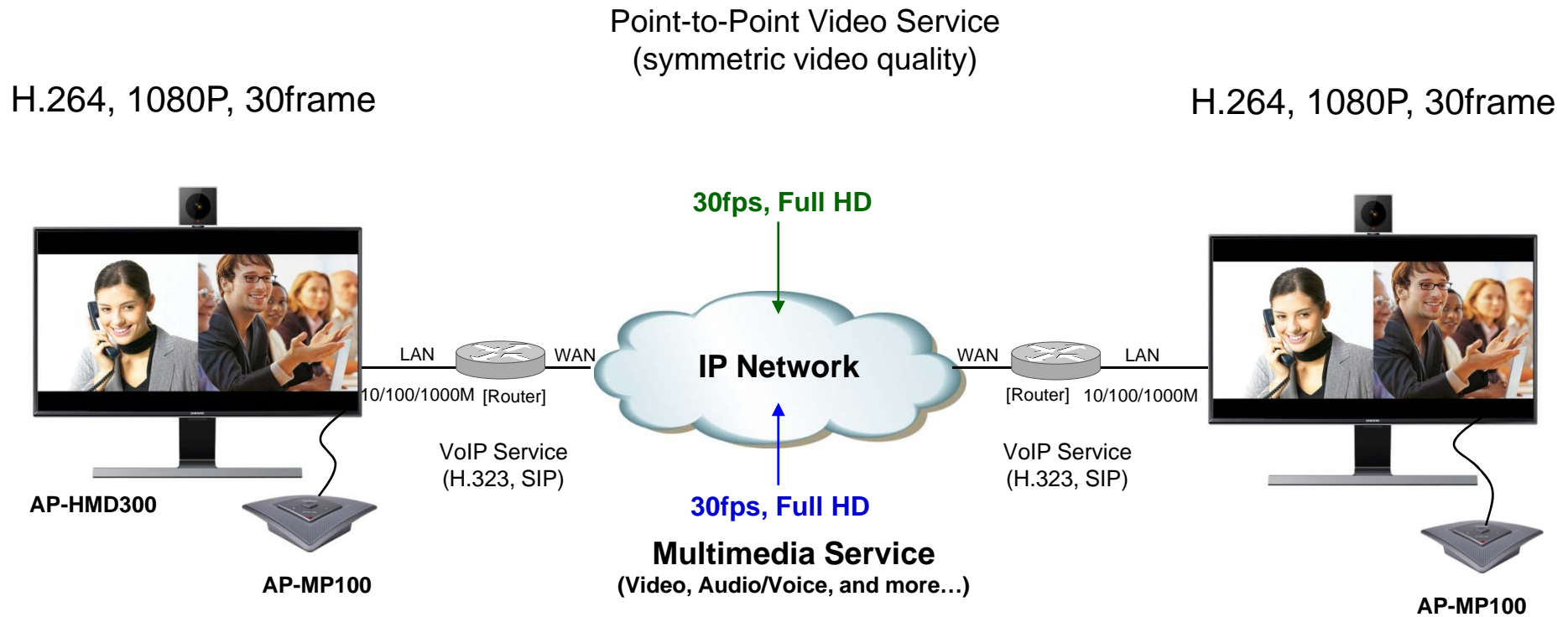
AP-HMD300 Full HD Monitor Type Video Codec

Application Area

- Video Telephony
- Video Conference



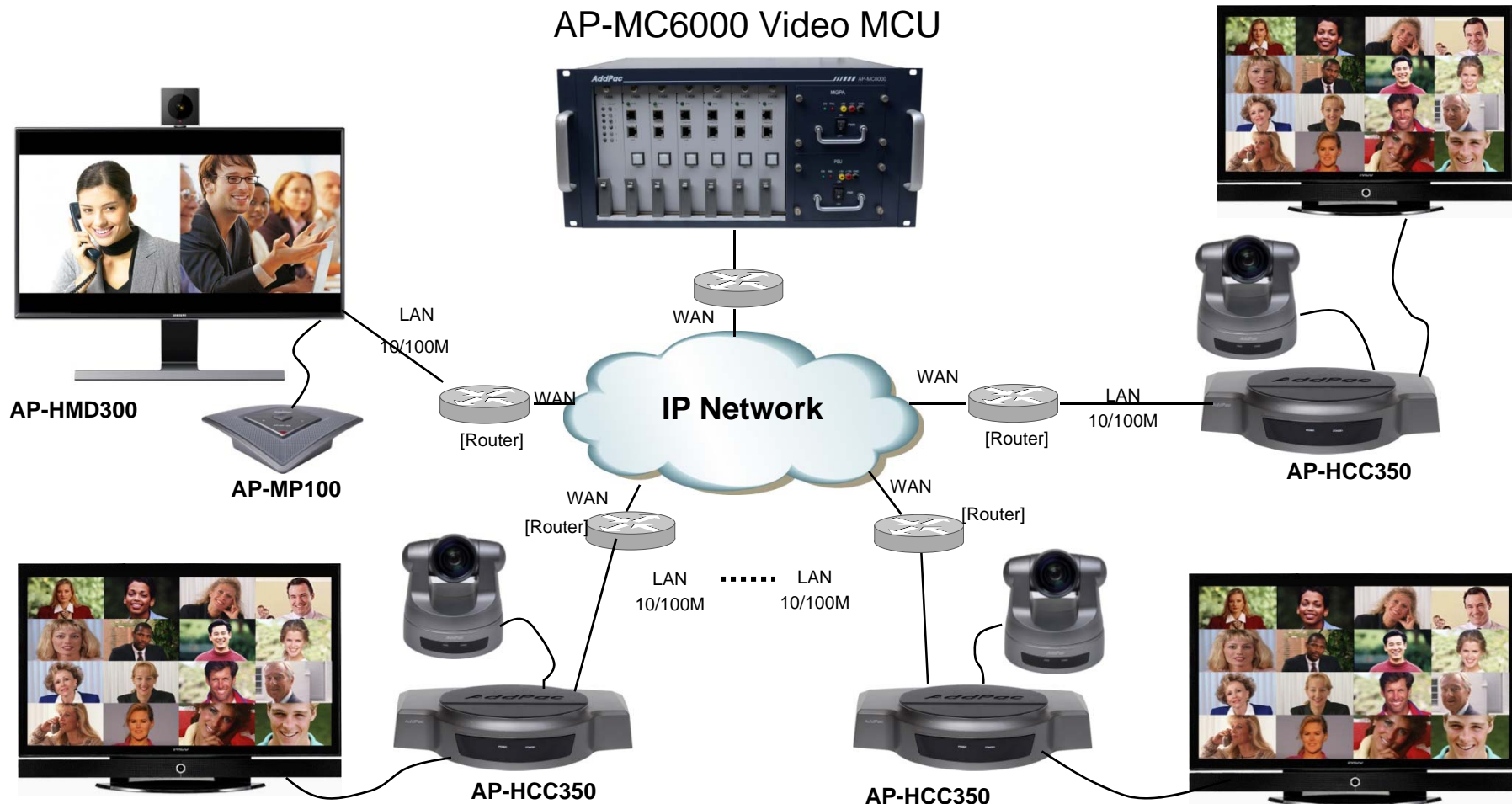
Video Telephony Application



Video Conference

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

AP-MC6000 Video MCU



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Ordering Information

- AP-HMD300 Full HD Video Conference Codec
 - AP-HMD300 Full HD Video Conference Codec
 - Including Network Cable Set & Power Supply Cable, etc.
 - Option : Video Conference Full HD Camera, Microphone
- Built-in APOS Internetworking Software for AP-HMD300
- 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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