



## AP-VP500 Large Screen IP Video Phone

AP-VP500 is a large screen IP video conference phone that allows you to make high quality and high resolution video communications by using the Internet. This product supports video conference, video phone, VoD, IPTV, network surveillance, and aid to communication access for the disabled optimally through the latest audio/video codecs and a variety of AV I/O interfaces. AP-VP500 has better video features since it ensures 720P high definition video due to a high-quality "12.1 Inch LCD. The criteria of choosing a video conference phone are high quality audio, video and high definition screen.

This new video phone delivers the various IP communication solution, taking a full advantage of new 'all-in-one concept' with voice, audio and video application integrated. It provides not only cutting-edge features such as AV in/out interfaces, QoS functions, public IP sharing but also a wide range of multiple VoIP signaling such as SIP, H.323 protocols and H.263, MPEG4, H.264 video codecs.

AP-VP500 is a high-performance multi-functional IP video phone where the state-of-the-art video processing technology is added to the voice processing technologies developed by AddPac in the multimedia IP telephony field. AP-VP500 has better video features since it ensures 720P high definition video due to a high-quality 12.1 Inch LCD and you can enjoy a large screen connected to the external monitor. Since AP-VP500 supports networks of 64 Kbps to several Mbps, it is available at any Internet-enabled place. Above all, AP-VP500 ensures the best video quality due to the 'rate control' function that ensures the best video quality and frame rate at a limited bandwidth and the high-end error resilience technology for troubleshooting various packet failures on the Internet.

In case of MPEG-4, AP-VP500 supports max. 30 frames of VGA(640x480) images which is considered promising for the high quality video application. The AP-VP500 IP video conference phone supports the 720P(1280x720) HD video display. In this HD display mode of AP-VP500, VGA level video image from remote site can be display at HD Screen without video downscale.

Not only IP communication, AP-VP500 is an integrated, feature-rich network equipments delivering routing, NAT/PAT, DHCP server/relay, public IP sharing, PPTP Tunneling for private IP and QoS. In today's mixed network of xDSL, Cable, FTTH, Metro Ethernet, Lease line and dynamic IP environment, not only the ample network service features, but also high-end QoS and security features are requested. Based on two 10/100Mbps Fast Ethernet ports, AP-VP500 offers integrated network and security service of LAN-to-LAN routing, bridge and NAT/PAT.

AP-VP500's network protocol delivers the enhanced multimedia solution on the IP based broadband networking environment to implement the optimal integration of the solutions. Integrated with AddPac's various solutions, AP-VP500 IP video phone provides diverse IP communication services such as VoD, IP multimedia broadcasting, multipoint video conferencing as well as a full suit of IP video telephony functionality. Thus, customers can best optimize their network environment to maximize benefit from convergence of multimedia communication.

## Product Highlights

- New 'All-In-One' Concept with Video, Voice, Audio, Data Integrated for Complete Multimedia Communication System
- Unmatched Video Quality for Interactive Communication in 30 fps of VGA(640x480), Supporting Both Encoding and Decoding
- LCD Display : 12.1Inch 720P HD Display Format
- RS232C Console Interface for CLI, External Camera PTZ
- USB 1.1 Host Mode Interface for USB Memory, Keyboard, Wifi, etc
- Optimal Video Quality Avoiding Bandwidth Loss On Asymmetric Network
- Various Video In/Out Interfaces for a Wide Range of External Devices
- IPv4/IPv6 Dual Stack Support
- Easy System Firmware Upgrade On the Basis of High Performance Embedded RISC CPU and Multiple Programmable DSP Chipset
- Two(2) 10/100Mbps Fast Ethernet Support
- Support the Latest Codec Algorithms such as H.263, MPEG-4, H.264 for High Quality Video/Voice/Audio
- G.711,G.729,G.723.1, etc Voice Codec.
- FXO PSTN Backup Interface (RJ11)
- OSD (On Screen Display) for Quick and Easy Setup
- Easy-To-Use Hot Function Keys
- Remocon for VoD service, IP Multimedia Broadcasting Service Operation, General and Network Management, Local/Remote Site Control
- EMS Solution for Network Maintenance
- APOS Guarantees Scalability, Reliability, Stability

## AP-VP500 Applications

- Video Conferencing System
- IP Voice/Video Broadcasting System
- VOD (Video on Demand) System
- Video Based IP-PBX Solution
- IP Based Multimedia Solution

## Hardware Specification

- Micro processor (CPU) and DSP
  - Dual Processor Architecture
  - RISC Microprocessor + Audio DSP
  - High Performance Video DSPs
- System Memory
  - Flash memory 16Mbyte Flash Memory
  - Main memory 128Mbyte SDRAM
- Video Interface
  - RCA Video 1-Port In & 1-Port Out
  - S-Video 1-Port Out
  - Component 1-Port Out
- Audio Interface
  - Audio In 1-port 20mm Stereo Jack
  - Audio Out 1-port 20mm Stereo Jack
- Ethernet Interface
  - 10/100Mbps two(2)-port Fast Ethernet(RJ-45)
- USB Interface
  - USB 1.1 Host Mode Interface for Wifi, USB HDD, Keyboard, Mouse
- RS232C Interface (RJ45)
  - CLI , External Camera PTZ
- LCD Monitor 12.1 Inch 720P LCD
- Video Camera
  - High Quality Built-in CCD Camera (4M Pixel)

## Power & Operational environment

- Adaptor AC/DC Power Adaptor
- Power 12V 3.4A
- Temperature 0°C~+45°C (operating)
- Temperature -40°C~+85°C (storage)
- Humidity 5%~95% (Non-condensing)

## Dimensions

- H x W x D (mm) : 290mm x 330mm x 400mm
- Weight : 5 Kg
- Material : High-Solidity ABS Chassis

## Video & Multimedia Service

- Various Video Interfaces
- MMoIP (Multimedia over IP) Features
  - Video Codec
    - H.263, MPEG-4, JPEG, H.264
  - Bandwidth : 64Kbps ~ 4Mbps (Configurable)
  - Frame Rate : up to 30 fps (Configurable)
  - High Resolution : QCIF(176x144), CIF (352x288), QVGA(320x240), VGA(640x480)
  - QoS for Video Traffic Control
  - Asynchronous Video Transferring Service
  - Interoperable with Diverse IP Codec Products

## OSD Service

- On-screen Display (OSD) Software
- Screen Layout, Operation setting, Bandwidth, IP configuring etc
- Network Environment Setup, Local/Remote Control

## Voice over IP Service

- H.323, SIP VoIP Signaling Protocol
- VAD, DTMF, CNG, G.168
- H.323 Gateway & Gatekeeper Support
- Voice Codec : G.723, G.729, G.726, G.711
- FXO PSTN Backup Interface (RJ11)
- Interoperable with Diverse VoIP Gateways
- Interoperable with Diverse VoIP Gatekeeper, SIP Proxy.

## Application Service

- VoD Service
- IP Multimedia Broadcasting Service

## Network Protocol & Service

- Data, Voice, Video and Security Support
- Standard Compliant IP Network Protocol

## WAN Protocol

- Broadband IP Network Support
- PPPoE, etc
- Standard Compliant WAN Network Protocol

## Network Management

- Standard SNMP Agent (MIB v2) Support
- Console, Telnet, Web Based Management
- Remote Download via FTP/TFTP

## Traffic QoS Control

- Traffic QoS Control Feature For Services
- Voice, Data, Video Prioritizing Control
- Various QoS Algorithm Support

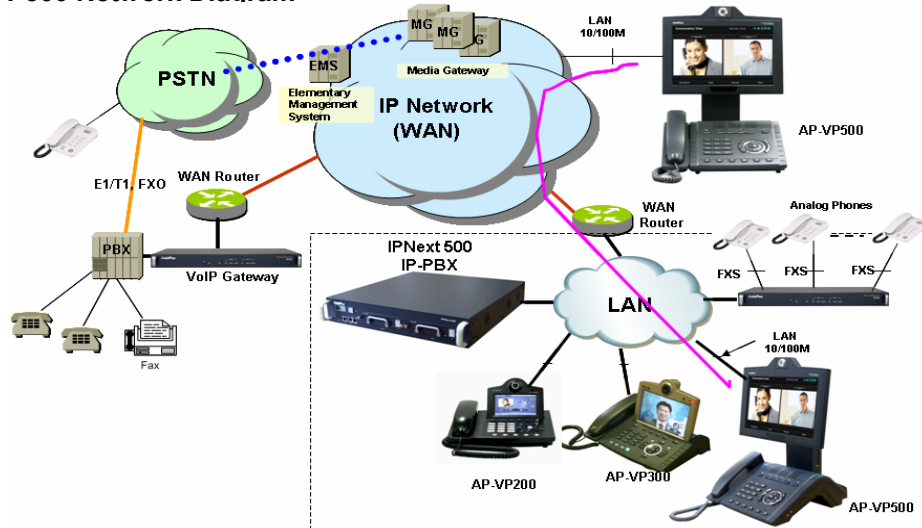
## Security Feature

- IP Packet Filtering / Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Support
  - Password Authentication Protocol (PAP)
  - Challenge Handshake Authentication Protocol (CHAP)

## Other Feature

- DHCP Server & Relay Functions
- PPTP Tunneling

## AP-VP500 Network Diagram



## Ordering Information

- AP-VP500 Large Screen IP Video Phone
- AP-REMOCON Remocon
- CAB-LAN Ethernet Cable
- CAB-CON RS-232C Console Cable

