



## AP-VP350 IP Video Phone

AP-VP350 is an IP video phone with MCU features, which allows you to make high quality and high resolution video communications by using the Internet. This product can provide integrated IP-based voice, audio, and video solutions, and be used for a variety of multimedia applications. AP-VP350 provides advanced features and services such as multiple VoIP signaling (e.g. SIP and H.323), video codecs such as H.263, MPEG4, and H.264, AV I/O interfaces, QoS, and public IP sharing.

AP-VP350 is a high-end 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 VoIP field. AP-VP350 has better video features because it ensures high definition video due to a high-resolution LCD and you can enjoy a large screen connected to the external monitor. Since AP-VP350 supports networks of 64Kbps to several Mbps, it is available at any Internet-enabled place. Above all, AP-VP350 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. This product processes VGA (640×480)-level videos by 30 frames per second based on the MPEG-4 video codec.

The network protocol supported by AP-VP350 allows you to implement the best multimedia solution in an IP-based broadband networking environment by integrating this product with the related solutions. AP-VP350 inter-works with the video conference solution, VOD, network DVR, and IPTV of AddPac to provide a wide variety of services such as document sharing, VoD, IPTV, network surveillance, and multi-party voice conference in addition to the basic voice calling feature.

## Main Features

- AP-VP350 is a high-end video phone that allows you to build a multimedia system in order to integrate voice, audio, and data based on video communications.
- Ensures high video quality bi-directionally by processing VGA-level video by 30 frames per second. (Supports both video encoding and decoding.)
- Supports the state-of-art codec algorithm for voice and audio services as well as video codecs such as H.263, MPEG-4, and H.264.
- Video MCU features: Controls 4-party conferences, the H.263/MPEG4 video, G.711/G.726 voice codec, and touch screen.
- Ensures the best voice quality on a regular IP-based Internet network that provides an asymmetrical bandwidth.
- Provides various video I/O interfaces for easy physical interfacing with external equipments.
- Provides Internet phone (VoIP) services including PSTN backup (e.g. H.323, SIP dual stack).
- Equipped with an advanced RISC embedded microprocessor and programmable DSP hardware chipset for easy system upgrade
- Supports individual dual monitor display and decoder.
- Supports document sharing and remote PC control.
- Supports On-Screen Display (OSD) for fast operation settings.
- Easy OSD control and environment control by operating the menu keys
- Allows you to enable settings by operating touch screen and ensures convenient device control.
- Allows you to set up configuration and your network environment by operating the remote control. Ensures easy local and remote control and operation for VoD and IPTV services.
- Provides the EMS solution for network maintenance and administration.
- Ensures extensibility, reliability, and authenticity since the APOS inter-networking software of AddPac is installed.

## APOS Internetworking Software

AddPac Internetworking Operating System (APOS™) supports data, voice, video, and security. This is the internetworking software that supports extensibility, authenticity, reliability, and QoS and that provides various features and ensure high performance as well as the industry standard network protocols.

## AP-VP350 Applications

- Video conferencing system
- IP voice/video broadcasting system
- Remote training, healthcare, and surveillance systems
- Video on Demand (VOD) system
- Network DVR system between the headquarter and a remote site
- IP-PBX solution based on a video solution
- Multimedia solution based on IP networking

## Hardware Specification

- Microprocessor (CPU) and DSP
  - Dual chip processor
  - Equipped with RISC microprocessor
  - Equipped with high performance programmable DSP hardware
- Memory
  - Boot Memory 512Kbyte Flash Memory
  - System Memory 16Mbyte Flash Memory
  - Main Memory 128Mbyte High-Speed SDRAM
- Video Interface
  - RCA Video 1-port I/O
  - S-Video 1-port output
- Audio Interface
  - Audio Input 1-port 20mm stereo jack
  - Audio Output 1-port 20mm stereo jack
- VoIP Interface
  - PSTN Backup 1-port FXO (RJ-11): Optional
- Ethernet Interface
  - 10/100 Mbps 2-port Ethernet (RJ-45)
- USB Interface
  - USB 1.1 Host Mode
- Console Port
  - RS-232C 1-port console (RJ-45)

## Power and Operation Environments

- Power Source: External AC/DC power adapter
- Power Consumption: 5V, 5A
- Operation Temperature: 0°C ~ +45°C
- Storage Temperature: -40°C ~ +85°C
- Humidity: 5%~95%

## Hardware Specification

- Size (Width X Height X Depth): 283x220x210
- Weight: 1.5 Kg
- Material: Hardware chassis of high-strength ABS

## Video and Multimedia Services

- Various video interface standards
- Advanced features for Multimedia over IP (MMoIP)
  - Video Codec: H.263, MPEG-4, JPEG, H.264
  - Video MCU: 4-party conferences, H.263/MPEG4, G.711/G.726
- Supported Bandwidth: 64Kbps ~ 4Mbps (Configurable)
- Frame Rate: 30 frames (Configurable)
- High-Resolution Support: QCIF(176x144), CIF(352x288), QVGA(320x240), VGA(640x480)
- QoS for video traffic control
- Asymmetrical video transmission service and decoder
- Document sharing and remote PC control

## OSD Services

- Equipped with On-Screen Display (OSD) software
- Screen split, operation settings, bandwidth settings, and IP settings
- Network environment setting, local and remote control
- Easy settings and operation through the control of the menu keys, touch screen, and remote control

## Voice over IP Services

- H.323, SIP VoIP signaling protocol
- VAD, DTMF, CNG, G.168, T.38 FAX relay
- H.323 gateway and gatekeeper
- Voice Codecs: G.723, G.729, G.726, G.711
- PSTN backup FXO voice interface: Optional
- Various supplementary VoIP features
- Inter-compatibility with commercial VoIP gateways
- Inter-compatibility with commercial VoIP gateways and the SIP proxy server

## Supplementary Application Services

- VoD
- Network surveillance
- IPTV

## Network Protocol and Services

- IPv4/IPv6 protocol
- Data, voice, video, and security
- Industry standard IP network protocol

## WAN Protocol

- Broadband IP network environment
- PPPoE and HDLC
- Industry standard WAN network protocol

## Network Administration and Operation

- Standard SNMP agent (MIB v2)
- Management features based on console, Telnet, and Web

## Traffic QoS Control

- Traffic QoS control for each service
- Controls the priority setting of voice, data, and video.
- Supports various QoS algorithms.

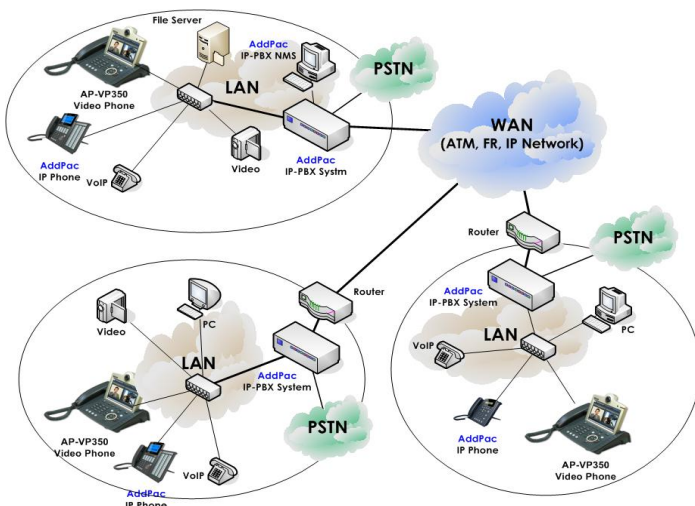
## Data Protection

- IP packet filtering and access list
- Access control and data protection
- Enabling/disabling specific protocols
- Multi-level user account management
- Auto-disconnecting TELNET/console sessions
- PPP user authentication support
- Password Authentication Protocol (PAP)
- Challenge Handshake Authentication Protocol (CHAP)

## Other Supplementary Services

- DHCP server and relay

## Network Configuration



## Ordering Information

- AP-VP350 IP Video Phone
- AP-REMOCON Remote Control
- CAB-LAN Ethernet Cable
- CAB-CON RS-232C Console Cable
- Video Cable Cable for Video