



## AP-VAC70 HD IP Video Door Phone

AP-VAC70 enterprise HD IP video door phone controls visitor access through video screen using LAN or internet. It has an excellent scalability using SIP standard VoIP signaling process feature by interworking with AddPac IP-PBX, video phone, and soft phone. It also supports the state of the art audio/video codec optimally. It provides enterprise visitor access control solution along with AP-ACS1000 Access Control Server. AP-VAC70 is a new HD IP video door phone where Internet voice communications are combined with Internet video communications. This product provides advanced features and services such as video codecs (e.g. H.264 HD Video Codec), 2.4 Inch TFT color LCD, high-performance AEC (Acoustic Echo Canceller), high quality audio sound, built RF Interface, PoE(Power over Ethernet), QoS, and standard VoIP signaling protocols such as SIP.

AP-VAC70 is a high-performance multi-functional HD IP video door phone where the state-of-the-art video processing technology is added to the voice processing technologies developed by AddPac in the VoIP field. Since AP-VAC70 supports networks of 128 Kbps to 8Mbps, it is available at any Internet-enabled place. Above all, AP-VAC70 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 H.264 video codec, it supports max. 30 fps (frame per second) of 720P(1280x720) video image.

AP-VAC70 HD IP video door phone supports visitor access feature through video image. It also supports RF card access and password access feature for the convenience of employees.

AP-VAC70 RISC CPU and DSP are all programmable structure so that user may use the latest features without much effort by simply setting an auto upgrade option or download from the homepage.

AP-VAC70 HD IP door phone is embedded with Smart Web Manager for video door phone management. User may setup/manage IP video door phone through PC, smart phone, and tablet device.

The performance and reliability of AddPac VoIP, Video and Multimedia equipments have been recognized in global markets as well as the Korean market. AP-VAC70, which is a collection of experiences and know-how accumulated in the enterprise and service provider markets, would be a solution that meets the needs of customers that ask for next-generation communications along with AddPac IP telephony solution.

## Product Highlights

- High Performance IP based Video Door Phone Solution
- Unmatched Video Quality for Interactive Communication in 30 fps of 720P(1280x720), VGA(640x480), QVGA(320x240)
- LCD Display : 2.4 Inch 320x 240 Display
- Local User Display Image Size : 160x120  
Remote User Display Image Size : 240x160  
Video Encoding Image Resolutions : 720P(1280x720),VGA(640x480), QVGA (320x240)
- Support the Latest Codec Algorithms such as H.264 for High Quality Video/Voice
- G.711,G.726, etc Voice Codec.
- Optimal Video Quality Avoiding Bandwidth Loss On Asymmetric Network
- High Performance and High Quality AEC (Acoustic Echo Canceller )Embedded.
- Optional Audio Interfaces for a Wide Range of External Devices (back side)
- Easy System Firmware Upgrade On the Basis of High Performance Embedded RISC CPU and Programmable DSP Chipset
- One(1) 10/100Mbps Fast Ethernet Support
- Built-in RF Card Interface
- Internal MIC, Internal Speaker & Amplifier
- Two(2) Alarm Input and One(1) Relay Out Interface (door open, etc)
- RS232/RS485 Interface for Interworking
- OSD (On Screen Display) for Quick and Easy Setup
- Web based Smart Manager Solution for Network Maintenance
- APOS Guarantees Scalability, Reliability, Stability

## AP-VAC70 Applications

- IP based HD video door phone
- Video Communication System
- IP Voice/Video Broadcasting System
- IP based Emergency Call phone

## General Hardware Specifications

<b>CPU</b>	High Performance RISC Integrated Processor
<b>DSP</b>	High Performance DSP (Digital Signal Processor)
<b>Memory</b>	512MB Flash Memory 128MB Main Memory (DDR)
<b>Network Interface</b>	1-ports 10/100Mbps Fast Ethernet
<b>PoE Interface</b>	IEEE802.3af compliant, Input voltage range 36V to 57V, Short-circuit Protection
<b>Video Camera</b>	Megapixel 720P WDR HD Camera Sensor
<b>RF Card Interface</b>	ISO14443A/B all bit rates : 106/212/424/848kbps, MiFare Series, etc
<b>Audio Interface</b>	Internal MIC and Speaker
<b>I/O Interface</b>	RS232C : 1-Port RS485 : 1-Port Alarm Input : 2-Port Relay Output : 2-Port
<b>Operation Environment</b>	Temperature 0°C ~ +45°C (operating), -40 °C ~ +85°C (storage), Humidity 5% ~ 95%
<b>Power Supply</b>	AC110~220VAC 50/60Hz Free Voltage, 12V 1Amp.
<b>Demension</b>	166mm x 102.8mm x 40.5mm(H x W x D)
<b>Weight</b>	0.36 Kg

## Audio/Video Hardware Specifications

<b>External Audio Interface</b>	1-Port RCA Audio Input, Output
<b>HD Video Camera</b>	CMOS 720P WDR HD Image Sensor Output Formats : YUV, separated and combined RAW Image Size : WXGA(1280x480), HD 720P(1280x720), VGA(640x480), CIF(352x288), QVGA(320x240) 1/3 Inch One(1) Megapixel Image Sensor
<b>Acoustic Echo Canceller</b>	Full-duplex operation during double-talk situations, One channel AEC, LEC up to 256ms shared Cancels echoes with up to 10dB echo return Advanced noise reduction (up to 20dB)

## Audio Service and Signaling Protocol Features

<b>Voice and Audio Codec</b>	G.711, G.726, etc
<b>VoIP Signaling Protocol</b>	SIP VoIP Signaling Protocol SIP Proxy Server Interoperability
<b>DTMF</b>	Detection and Generation, RFC 2833 Compliant
<b>Telephone Features</b>	Touch Dial Pad (3x4 Key)
<b>Voice QoS</b>	Enhanced QoS Management for Voice Traffic

## Video Services and Features

<b>Video Codec</b>	H.264 (MPEG4 part 10), MPEG4, etc
<b>Video Resolution</b>	QVGA(320x240), VGA (640x480)
<b>Frame Rate</b>	Up to 30fps with VGA-Resolution (H.264)
<b>Operating Bandwidth</b>	64Kbps ~ 1Mbps
<b>Video QoS Features</b>	Enhanced QoS Management for Video Traffic Rate Control for Best Video Quality Frame Rate Control at a Limited Bandwidth Video Error Concealment Service
<b>Control and Setting</b>	OSD (On Screen Display)

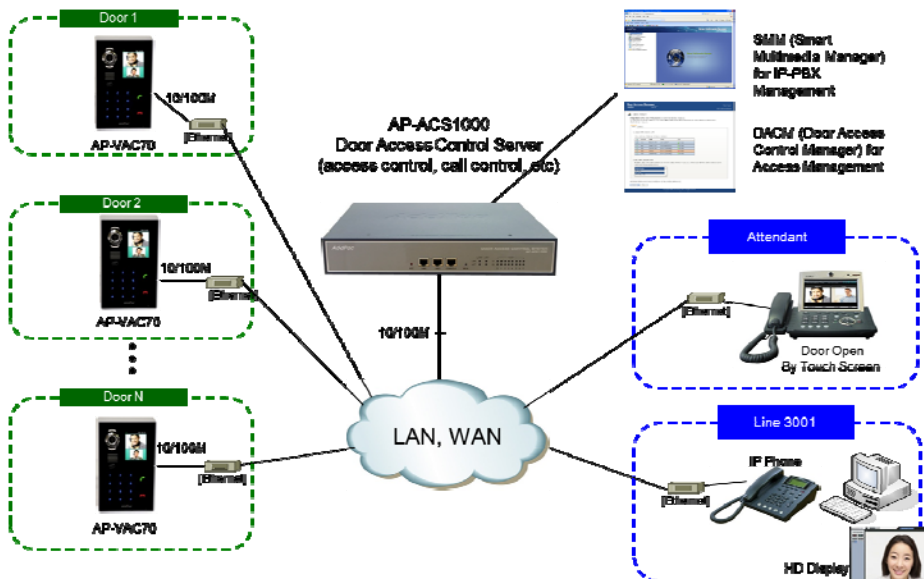
## WAN, LAN, IP Services and Other Features

<b>Basic Network Protocol</b>	ARP, IP, ICMP, IGMP, UDP, TCP
<b>Extended Network Protocol</b>	Telnet, FTP, TFTP, HTTP Server, NTP Client
<b>IP Routing</b>	IPv4 Routing, Static, Default Routing
<b>Network Address</b>	IEEE 802.3 Ethernet / IEEE 802.1Q Virtual LAN Fixed (Static), DHCP
<b>Network Management</b>	Web Based Management, Remote Firmware (APOS) Upgrade via FTP/TFTP Support
<b>Miscellaneous</b>	Cisco Style CLI, Auto Upgrade via HTTP, etc

## Audio/Video Hardware Specifications

<b>Color TFT LCD</b>	Built-in 2.4 Inch Color TFT LCD, Image Resolution : 320 x 240 Support resolution up to 240xRGBx320 Built-in 172800 bytes internal RAM 6,8,16, and 18-bit RGB Interface Resize Function ( x 1/2, x 1/4) On-Chip Power Management System
<b>Microphone</b>	Built-in Internal Microphone
<b>Built-In Speaker</b>	Impedance : 8 +-15%ohm at 1kHz, 1.0 Vrms Sound Pressure : 90 +- 3dB at 0.1W/10 CM at 800Hz, 1.0kHz, 1.2kHz, 1.5kHz Resonance Level : 550Hz +- 20%Hz at Fo Hz, 1.0Vrms Frequency Range : Fo Hz ~20kHz Input Power : Normal : 1.0 W, Max : 2.0W 1-W BTL Output(5V, 0.11 % THD+N) Uncompensated Gains of 2 to 20 (BTL Mode) Thermal and Shot-circuit Protection High Supply Ripple Rejection Ratio
<b>Audio AMP.</b>	

## AP-VAC70 Network Diagram



## Ordering Information

- AP-VAC70 HD IP Video Door Phone Power Adaptor with terminal block
- CAB-LAN Ethernet Cable

