IP Video Door Phone

AP-VAC50
Technical Data Sheet

General Hardware Specifications

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

Audio/Video Hardware Specifications

Color TFT LCD	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 ½, x ¼)
	On-Chip Power Management System
Microphone	Built-in Internal Microphone
Built-In Speaker	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
Audio AMP.	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

Audio/Video Hardware Specifications

External Audio Interface	1-Port RCA Audio Input, Output
Color Video Camera	High Sensitivity for low-light operation
	Output support for Raw RGB, RGB, and YCrCb format
	Image Size : VGA, QVGA, and any size scaling down
	from CIF to 40x30
	Support AEC, AGC,AWB, ABF, ABLC
Acoustic Echo Canceller	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

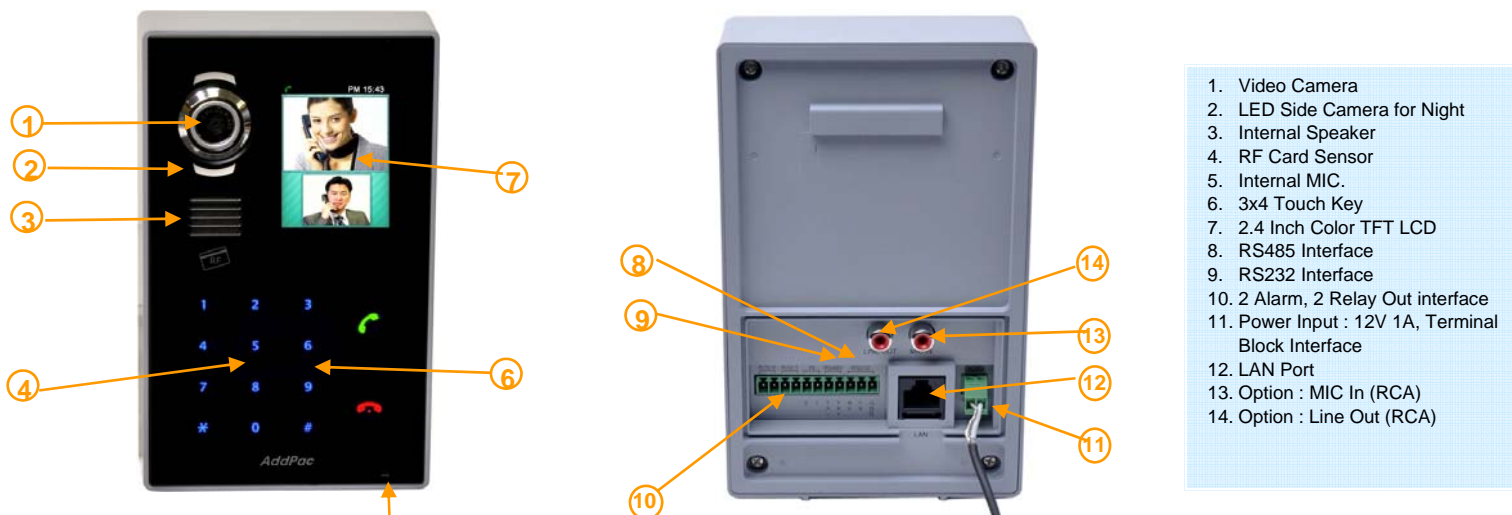|	
Voice and Audio Codec	G.711, G.726, etc
VoIP Signaling Protocol	SIP VoIP Signaling Protocol
	SIP Proxy Server Interoperability
DTMF	Detection and Generation, RFC 2833 Compliant
Telephone Features	Touch Dial Pad (3x4 Key)
Voice QoS	Enhanced QoS Management for Voice Traffic

Video Services and Features

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

WAN, LAN, IP Services and Other Features

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

AP-VAC50 Hardware Interface Diagram

1. Video Camera
2. LED Side Camera for Night
3. Internal Speaker
4. RF Card Sensor
5. Internal MIC.
6. 3x4 Touch Key
7. 2.4 Inch Color TFT LCD
8. RS485 Interface
9. RS232 Interface
10. 2 Alarm, 2 Relay Out interface
11. Power Input : 12V 1A, Terminal Block Interface
12. LAN Port
13. Option : MIC In (RCA)
14. Option : Line Out (RCA)

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