

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	0.35 Kg

Audio/Video Hardware Specifications

LCD Display	Display Type : FSTN, Positive Built-in Controller : ST7567 Blue LED Back Light Active Area : 35.48(W) x 22.38(H) Number of Dots : 128 x 64
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

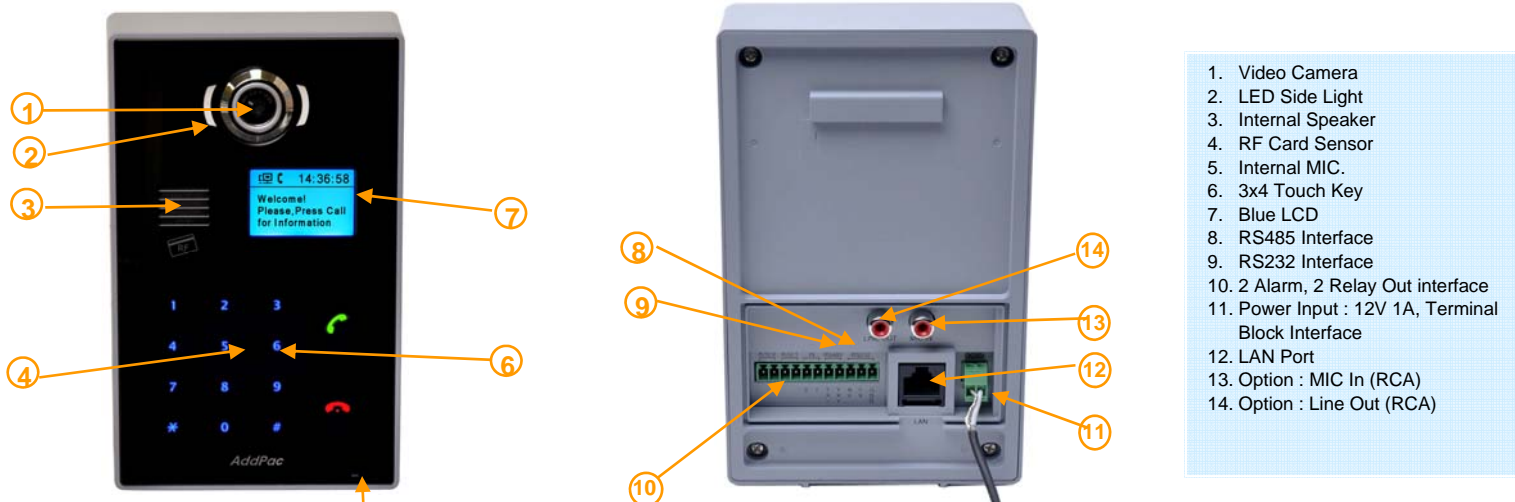
Video Services and Features

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 Light
3. Internal Speaker
4. RF Card Sensor
5. Internal MIC.
6. 3x4 Touch Key
7. Blue 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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