

## 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>	CMOS Video Camera with side LED Lights
<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>Frame Chassis</b>	Die-Casting Steel Chassis (Option*)
<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>	0.35 Kg

## Audio/Video Hardware Specifications

<b>LCD Display</b>	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
<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>	

## Audio/Video Hardware Specifications

<b>External Audio Interface</b>	1-Port RCA Audio Input, Output
<b>Color Video Camera</b>	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
<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 Detection and Generation, RFC 2833 Compliant
<b>DTMF</b>	Touch Call Button
<b>Telephone Features</b>	Enhanced QoS Management for Voice Traffic

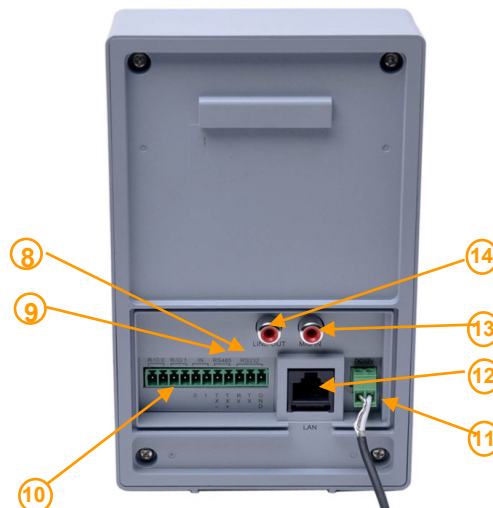
## Video Services and Features

<b>Video Codec</b>	H.264 (MPEG4 part 10), MPEG4, H.263, 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

## AP-VAC50 Hardware Interface Diagram



1. Video Camera
2. LED Side Light
3. Internal Speaker
4. RF Card Sensor
5. Internal MIC.
6. Touch Call Button
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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