



## AP-IPC50M IP Camera

AP-IPC50M IP Camera is a next generation and DSP-based network video encoder with internal camera, which has been designed to support 1-port 10/100Mbps Fast Ethernet Interface, 1-port audio input/ output interfaces, 2 alarm ports & 1 relay port and power over ethernet (PoE) to be applied to many different fields such as video surveillance, traffic and environment monitoring.

AP-IPC50M IP camera supports the video codec formats of MPEG-4 and the voice codec of G.711 and G.726 and processes audio/video encoding simultaneously. The entire structure of Digital Signal Processor (DSP) for video codec is programmable, so continuous addition and changes of features, for example H.264 video codec, are possible. In other words, this DSP can cope with technical change flexibly in future. Whenever adding or changing a feature is necessary, you can download from the website of AddPac or select an option for auto-upgrade, so you can use the latest release of feature easily.

AP-IPC50M processes the video resolution of VGA (640×480) on video codec format of MPEG-4 standard and adjusts an appropriate bit rate and frame rate depending on the given network conditions. AP-IPC50M IP camera supports the both CMOS and CCD camera sensor. In case of CCD camera sensor, the IP camera can optimize the video resolution to D1 level. You can choose a video resolution in a wide range of VGA, QVGA, 4CIF, CIF, QCIF depending on network bandwidth and environment.

AP-IPC50M provides the remote access of tenet or ftp to perform system diagnosis, configuration and software upgrade for the purpose of product reliability. For the operation environment of many AP-IPC 50M in wide area locations, the GUI-based large scale management system is provided. The web-interface allows you to monitor the operation status of many AP-IPC50M and send audio to the designated destination.

AP-IPC50M provides the audio output interface basically. Connecting to an external amp speaker, you can use the IP camera as an IP-based audio broadcasting terminal. Integrating with the AddPac IP Broadcasting Solution, you can perform announcement, music and other diversified broadcasting features. Also integrating with the AddPac IP Telephony Solution (IP-PBX, IP terminal, etc.), you can perform the IP Audio Broadcasting through IP Video Phone and IP Phone. By entering just a phone number, you can perform the broadcasting, so it has an outstanding ability that allows you to react to emergency situation.

## Product Highlights

- Cost Effective IP Camera Solution for Complete IP Network DVR Solution with Network DVR Server , IP camera, Video Encoder, etc
- RISC Processor + High End DSP Processor Architecture
- MPEG4 Video Codec Support : up to D1 Resolution (Option : H.264 Video Codec )
- Audio Codec : G.711, G.726
- Various Network DVR, Standalone DVR, Live Displayer, Smart DVR Viewer, IP Camera Viewer, Embedded DVR Viewer (AddPac Video Phone)
- Easy System Firmware Upgrade on the Basis of High Performance Embedded RISC CPU and DSP Processor
- Camera Type : CMOS and CCD Type (option)
- One(1)-Port 10/100Mbps Fast Ethernet
- Two(2) Alarm and One(1) Relay Port
- Power over Ethernet (PoE) Support : Option
- MIC in Interface for Audio Recording
- Audio Out Interface for Broadcasting, Announcement with external AMP. speaker
- Remote Firmware Upgrade using FTP & TFTP Protocol
- Support PC based Smart DVR Viewer & Manager
- Support Smart Network Manager System for Network DVR solution
- APOS Guarantees Scalability, Reliability, Stability

## AP-IPC50M Applications

- Standalone Network DVR Solution
- IP Camera

## Hardware Specifications

CPU	High Performance RISC Processor + DSP Processor
Memory	64MB Flash Memory 128MB DDR2 Main Memory
<b>Network Interface</b>	1-port 10/100Mbps Fast Ethernet for WAN Interface
A/V Interface	MIC Input : 1-Port 3.5mm Stereo Connector Audio Output : Two(2) RCA Output Connector (Left, Right)
Camera Features (Option)	CMOS Type -Image Sensor : 1/4 Inch Progressive Scan CMOS VGA Sensor -Lens : Fixed Board Lens -Max Video Resolution : 640 x 480 -Frame per Second : 30 frame ( 640 x480) CCD Type -Image Sensor : 1/3 Inch Sony Super HAD CCD -Lens : Fixed Board Lens -Max Video Resolution : 720x480 NTSC, 720x576 PAL -Frame per Second : 30 Frame D1
<b>I/O Interface</b>	<b>Alarm Input : Two(2) Alarm Input Interface</b> <b>Relay Out : One(1) Alarm Output Interface</b>
<b>Operation Environment</b>	Temperature 0℃ ~ +45℃ (operating), -40℃ ~ +85℃ (storage), Humidity 5% ~ 95%
<b>Power Supply</b>	External Power VAC 110~220V, 50/60Hz, 12V 1.5A
PoE (Option)	Class 0
<b>Demension</b>	112 (H) mm x 130(Ø)mm ( H x Ø( mm))
<b>Weight</b>	0.5 Kg

## IP Camera Features

<b>Video Codec</b>	MPEG4 Video Codec (Option H.264)
<b>Video Resolution</b>	D1(CCD Type), VGA, CIF, QVGA
<b>Operation Bandwidth</b>	128kbps ~several Mbps
<b>Rate Control</b>	Frame Rate, Bandwidth Control
<b>Motion Detection</b>	DSP based Advance Motion Detection Algorithm
<b>Motion Tracking</b>	Smart IP Camera Viewer (Video Decoding) based Motion Tracking
<b>Audio Codec</b>	G.711, G.726
<b>MIC Input</b>	MIC in Interface for Audio Recording
<b>Audio Output</b>	Audio Out Interface for IP voice Broadcasting, Announcement

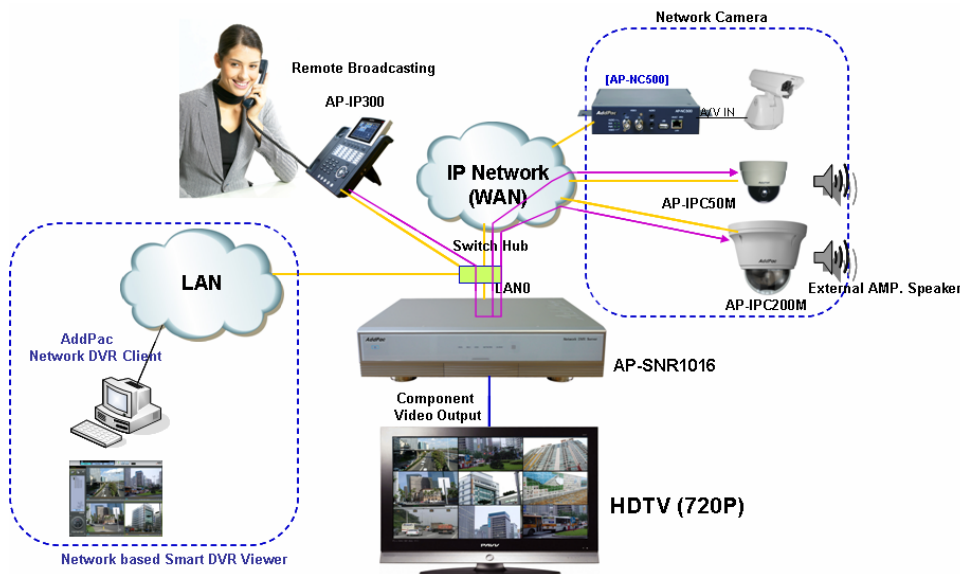
## IP Camera Inter-working

<b>DVR Server</b>	AddPac Network DVR, Standalone Network DVR Servers, etc
<b>DVR Viewer</b>	Smart DVR Viewer for Remote Display on PC (Web or MS window based Client Viewer) -Motion Detection Sensitivity Control (Level 10) - internet Explorer 6.0 - Window XP/Vista - Multi-Channel Support
<b>VoIP Signaling</b>	Embedded DVR Viewer (AddPac Video Phone) SIP VoIP Signaling Support for Video Phone, IP Phone Interconnection
<b>Smart NMS</b>	Smart Network Management System for DVR Solution - Large Scale Service - Real-time Status Monitoring - Link Up/Down - Camera Status, Alarm Report & Print, E-mail, etc

## WAN, IP Routing and Other Features

<b>WAN Protocol</b>	Point-to-Point Protocol (PPPoE) for ADSL
<b>IP Routing</b>	IPv4 Static and IEEE 802.1Q VLAN Routing
<b>Network Management</b>	Standard SNMP Agent (MIB v2) Support, Telnet, Web Based Management, Remote Firmware (APOS) Upgrade via FTP/TFTP Support
<b>Security Features</b>	IP Packet Filtering, Access List, Access Control and Data Protections, Enable/Disable for Specific Protocols Multi-level User Account Management, Auto-disconnect for Telnet/Console Sessions, PPP User Authentication Support (PAP/CHAP)
<b>Operation &amp; Management</b>	Performance Analyzing (Process, CPU, Interface), Configuration Backup and Restore for APOS Management, Debugging and Diagnosis Features, System Booting/Rebooting through Watch-Dog, Data Logging Features, IP Traffic Statistics through Accounting Support
<b>Other Features</b>	DHCP Server and Relay, Network Address Translation (NAT), Port Address Translation (PAT), IEEE Standard Transparent Bridging (Spanning Tree Bridging and Concurrent Routing Bridging Protocol), Network Time Protocol (NTP), DNS Proxy, UPnP, MAC Address Filter Service, etc.

## AP-IPC50M Network Diagram



## Ordering Information

- AP-IPC50M IP Camera  
Sensor Type Option : CMOS, CCD  
Option : PoE
- CAB-LAN LAN Cable