

# AP-VAC60

## IP Video Door Phone

IP Video Monitoring Service + IP Video Door Phone Solution



### Preliminary Product Overview

(Without notice, following described technical spec. can be changed)

**AddPac**

**AddPac Technology**

2013, Sales and Marketing

[www.addpac.com](http://www.addpac.com)

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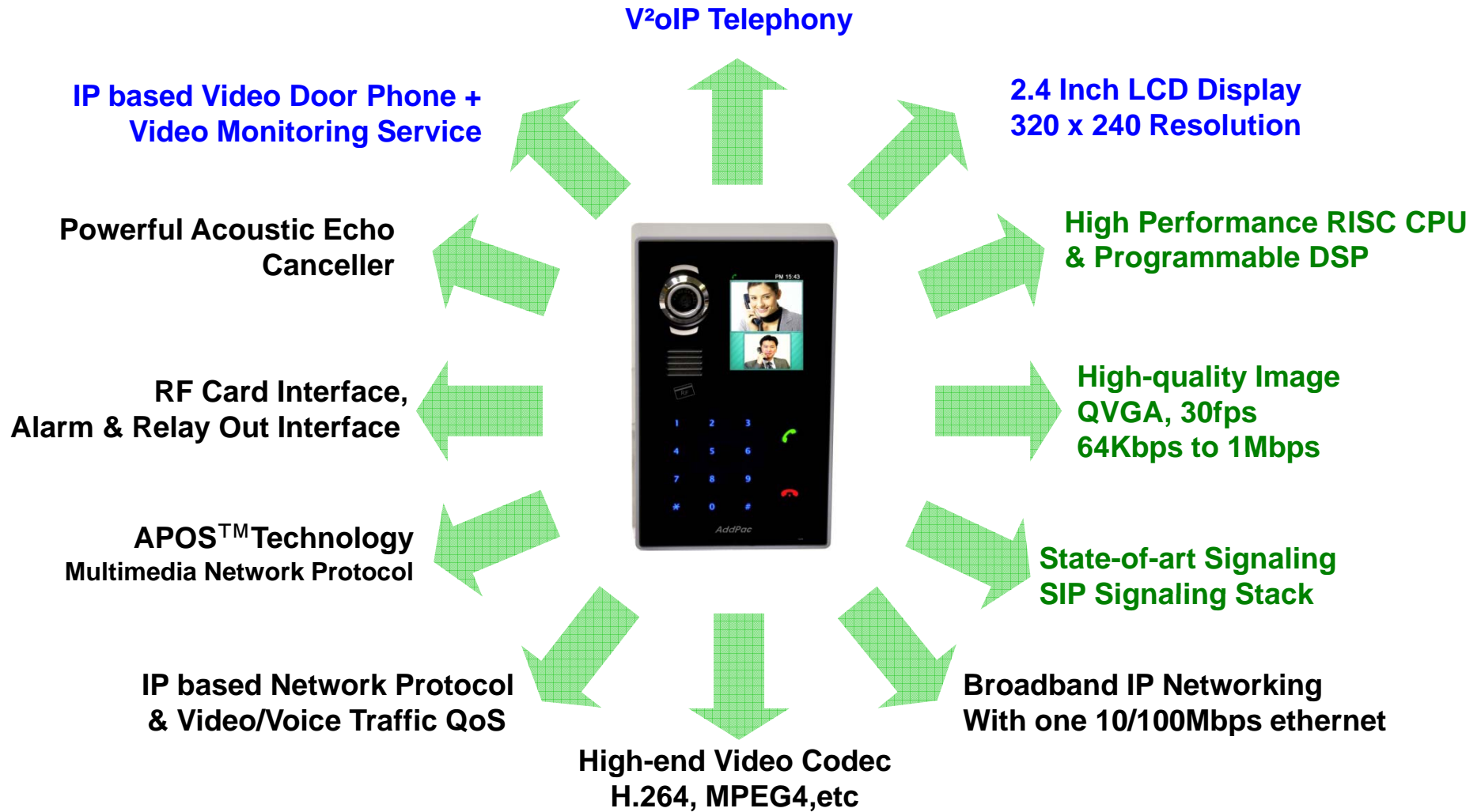
# Product Overview

## AP-VAC60 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Concurrent Video Monitoring Service (Additional IP Camera Service)
- Dual Video Encoding Service Features
  - First One : IP Video Door Phone, Second One : IP Camera Codec
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- High Quality 2.4 Inch LCD, 320 x 240 Video Resolution
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
  - H.264/MPEG4, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Optional Die-Casting Frame Chassis (STILL CASE)
- Advanced Voice QoS Mechanism

# Product Highlights

AP-VAC60 IP Video Door Phone

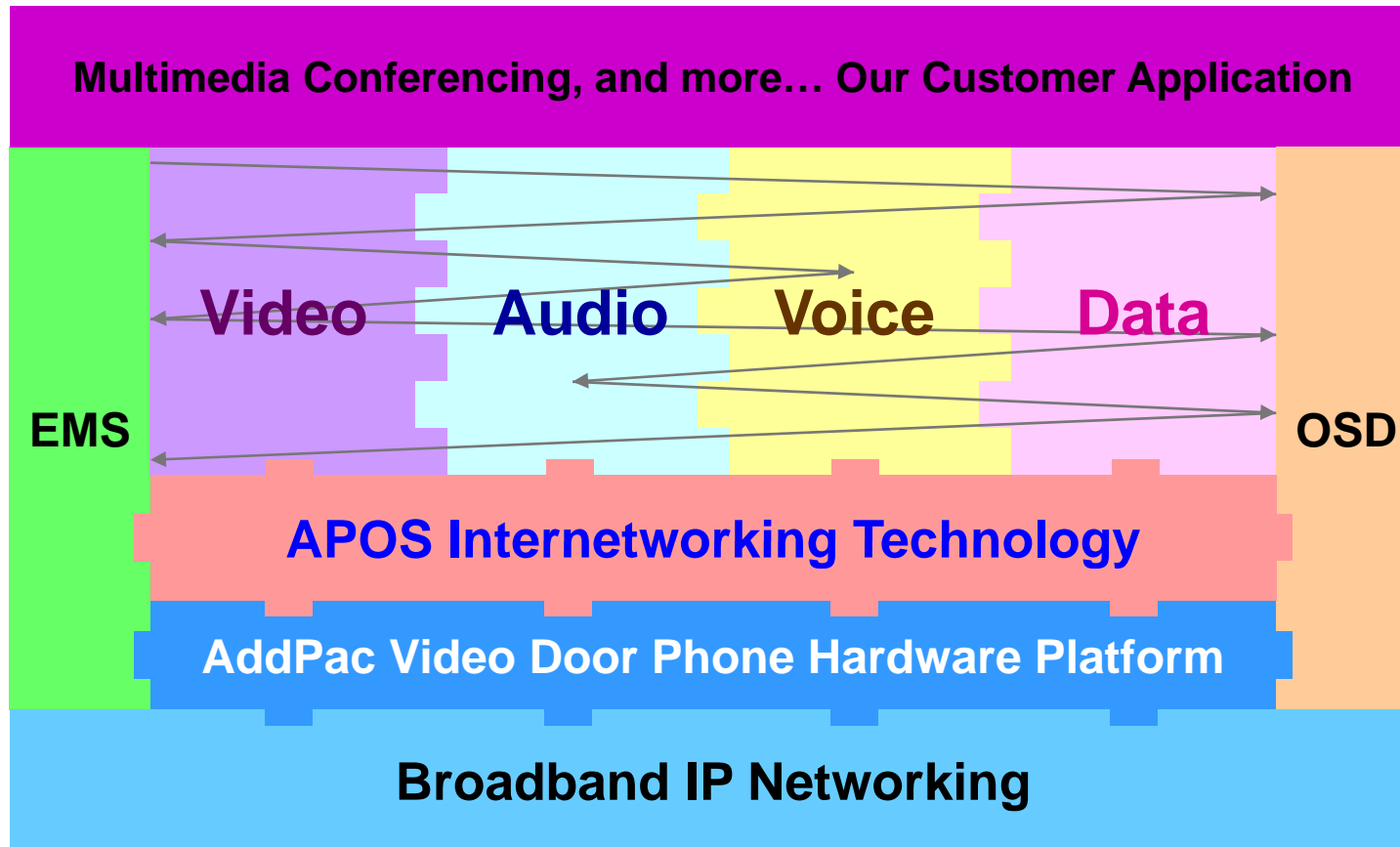


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# Multimedia Service

AP-VAC60 IP Video Door Phone



- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS : Element Management System

# Hardware Specification

## AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
  - 3 x 4 key PAD
- Video Camera Interface
- TFT Color LCD Interface
  - 2.4 Inch LCD, 320 x 240 Video Resolution
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- External RCA Audio Line Out and MIC In (back side)
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply



# Hardware Specification

## AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

- **Acoustic Echo Canceller**
  - Full-duplex operation during double-talk situations
  - One channel AEC, one channel LEC up to 256ms shared
  - Cancels echoes with up to 10dB echo return
  - Advanced noise reduction(up to 20dB)
- **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 Amplifier**
  - 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
- **PoE(Power over Ethernet)**
  - IEEE802.3af compliant
  - Input voltage range 36V to 57V
  - Short-circuit Protection



# Hardware Specification

## AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

- **LCD Controller**
  - One-Chip Solution for amorphous TFT-LCD
  - 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
- **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
  - Saturation Level, Edge Enhancement Level, De-noise level Auto adjust



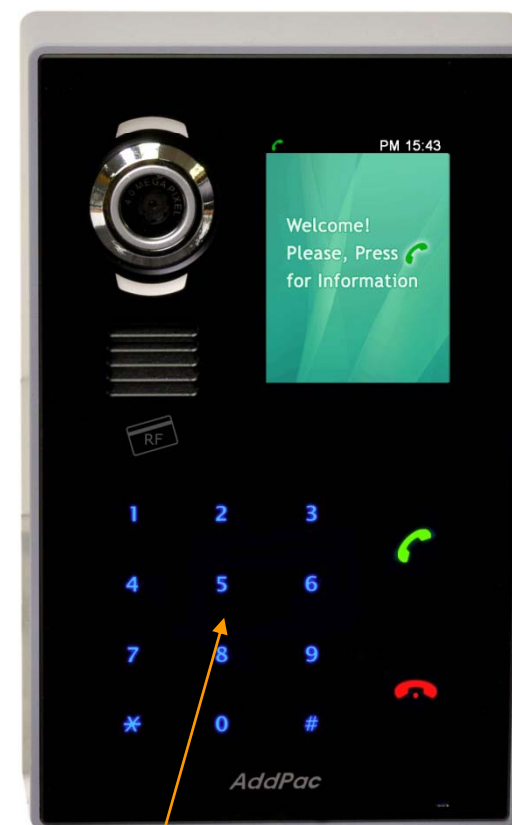
# Hardware Specification

## AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

- RF Card Sensor
  - Protocol Supported
    - ISO14443A/B all bit rates
      - > 106,212,424 and 848 kbps
    - Compatible to MiFare Classic
    - ISO15693 all modes
      - > 1.65/6.6 & 26.5 kbps
      - > Uplink 1 & 2 sub-carrier
  - Receiver
    - Rx Sensitivity down to 1mVrms
    - Rx Automatic Gain Control
    - Accept external baseband signal from external circuitry for frame level processing
    - Integrated signal strength indicator (SSI)
    - On-Chip Framing handler for supported standard
  - Transmitter
    - Typical proximity operating distance up to 100mm.
    - Software configurable modulation index
    - Maximum driving current up to 200 mA/PIN @ 5V
    - Accept external baseband signal for RF modulation
    - Wide Transmitter driver supply range from 2.7~7.0V



RF Card Sensor

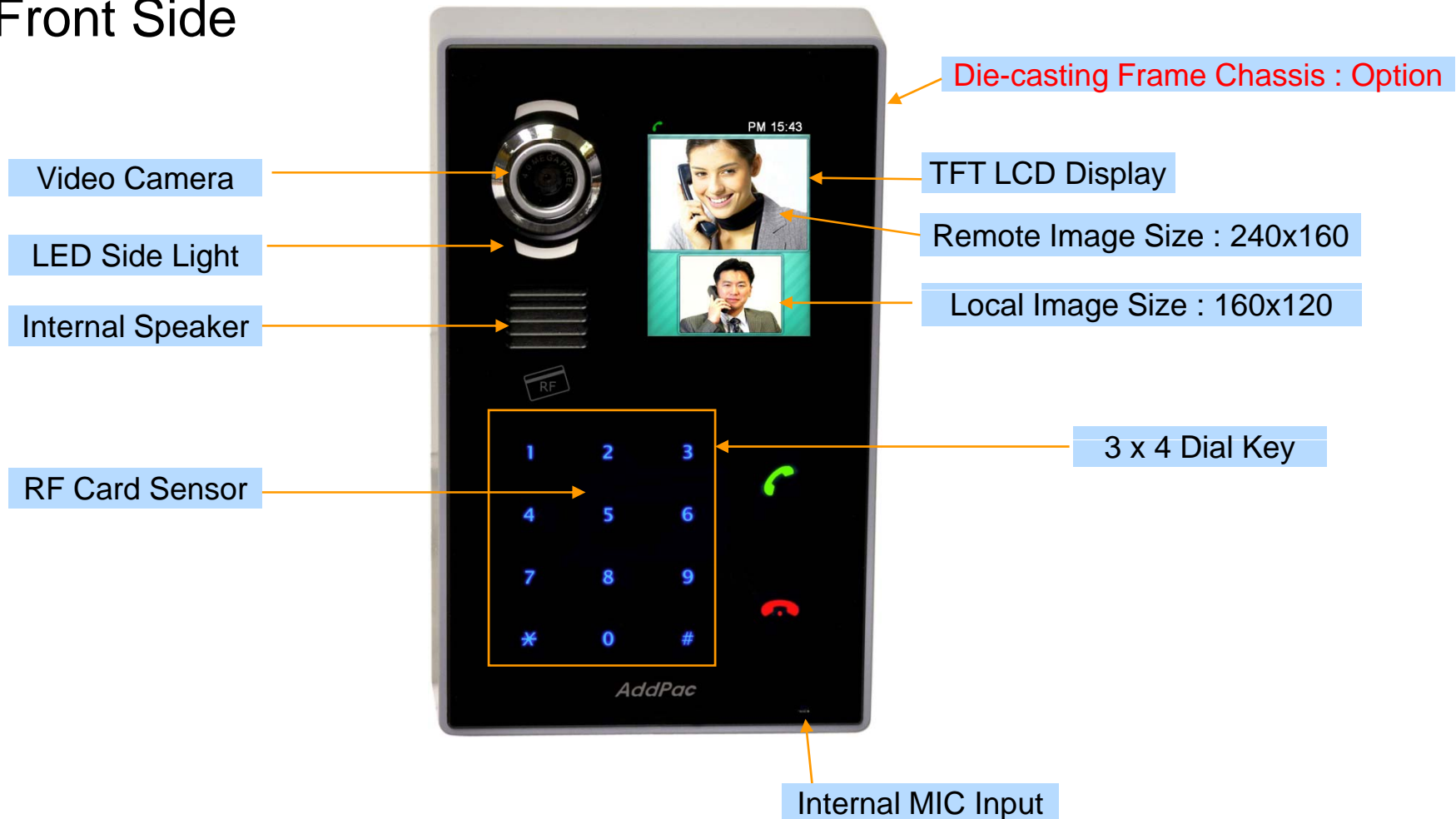
# Hardware Specification

AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

## Front Side



# Hardware Specification

AP-VAC60 IP Video Door Phone

High-end  
**DSP**

Front Side



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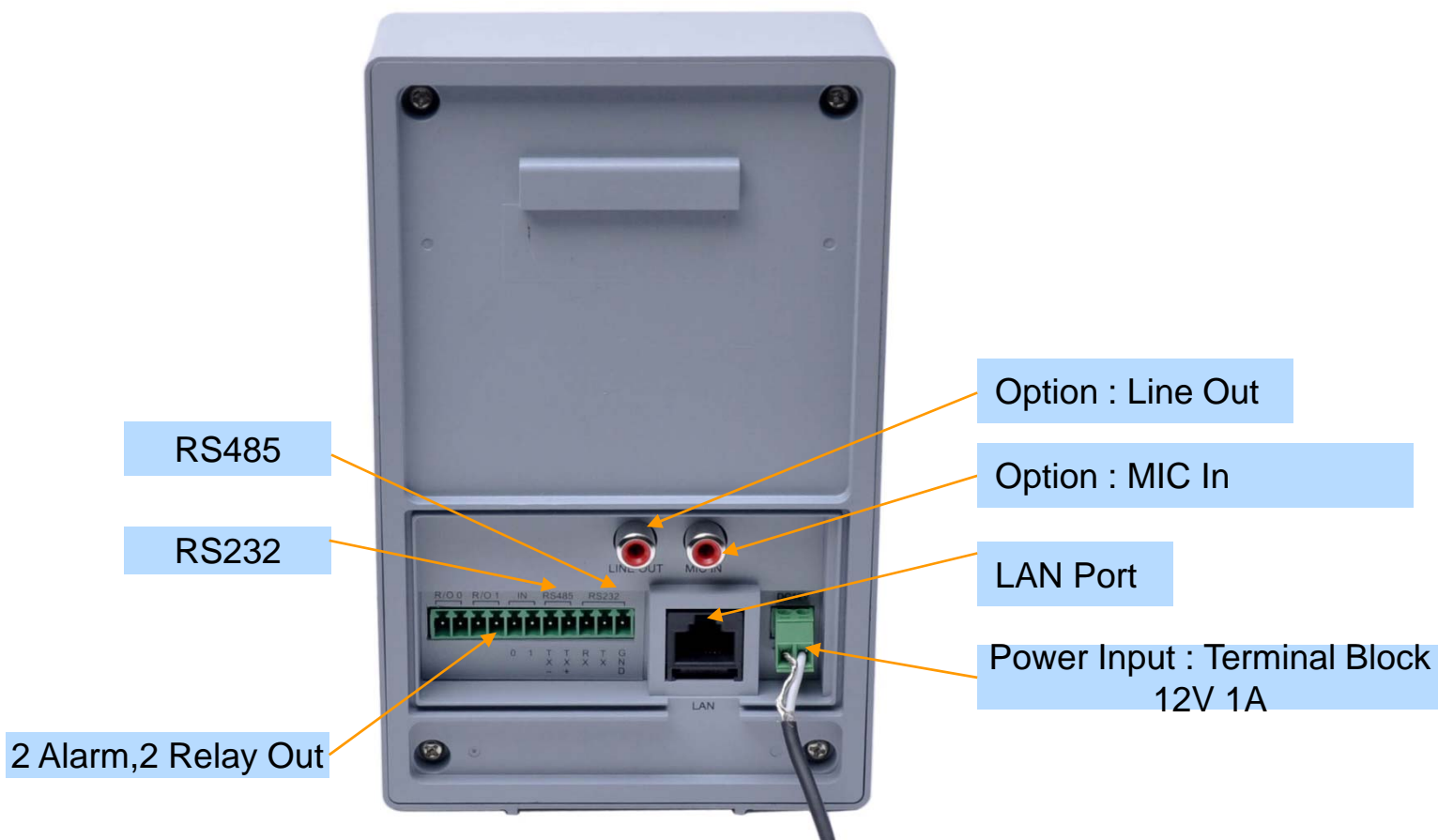
# Hardware Specification

AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

## Back Side



# Hardware Specification

AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

Back Side



Wall Mount Bracket

Rubber Cover for light waterproof

# Hardware Specification

AP-VAC60 IP Video Door Phone

RISC  
CPU

High-end  
DSP

## Power Supply

Terminal Block



12V 1A Power Adaptor

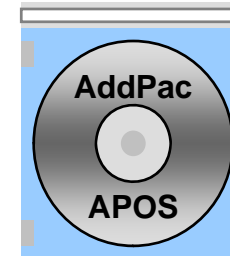
Example



# Software Service

AP-VAC60 IP Video Door Phone

- **Built-in AddPac APOS Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Video Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
  - Video Codes, Audio, and Voice Codec
- **Firmware Upgradeable DSP Architecture**
- **OSD (On-screen Display) Function Support**
- **Industry Standard IP based Network Protocol Features**



# Video Service and Features

## AP-VAC60 IP Video Door Phone

- **High-performance Video Codec Support**
  - H.264, MPEG, H.263, etc
- **Image Resolution Support**
  - Local Display : 160 x 120
  - Remote Display : 240 x 160
  - Video Encoding : VGA(640x480), QVGA(320x240)
- **Dual Video Encoding Support**
- **Up to 30fps with VGA Resolution**
- **128Kbps to 1Mbps Operating Video Traffic Bandwidth**
- **Rate Control for Video Traffic QoS**
  - Ensuring Optimized Quality
  - Frame Rate with Limited Bandwidth
- **High-end Error Resilient Against Various Packet Error**



# Audio & Voice Service and Features

## AP-VAC60 IP Video Door Phone

- **Audio & Voice Networking Interface**
  - External Audio Line-Out Interface (RCA Connector)
  - External Audio MIC-In Interface (RCA Connector)
- **VoIP based Signaling Protocol Support**
  - SIP Signaling Protocol Stack
- **High-performance Audio & Voice Codec Support**
  - G.711, G.726 Audio Codec
- **Enhanced QoS Management Features for Voice Traffics**



# Video Monitoring Service (IP Camera Service)

# Video Monitoring Service Protocol Diagram

AP-VAC60 IP Video Door Phone

## Small Scale Network DVR Solution (All in One)

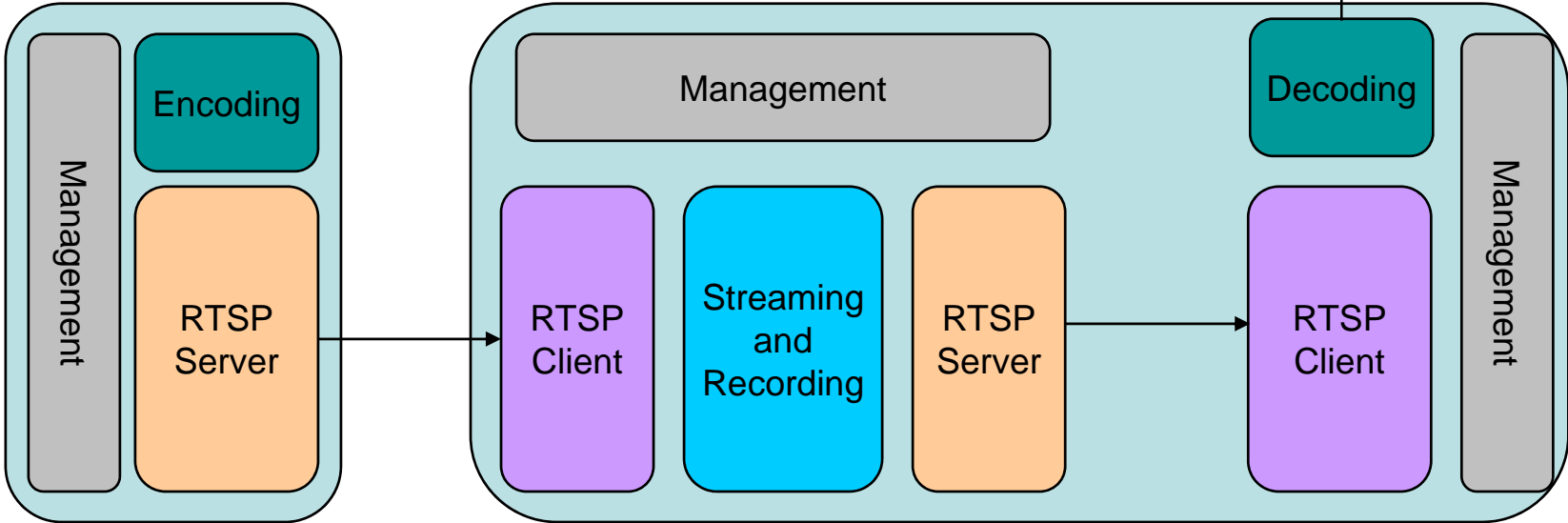
AP-VAC60 IP Camera Service



AP-HNR104 Network DVR Storage Server



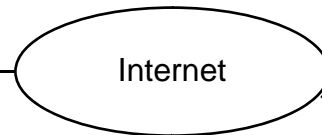
HDMI Video Output



# Concurrent Dual Video Encoding Service

## AP-VAC60 IP Video Door Phone

AddPac IP Video Door Phone

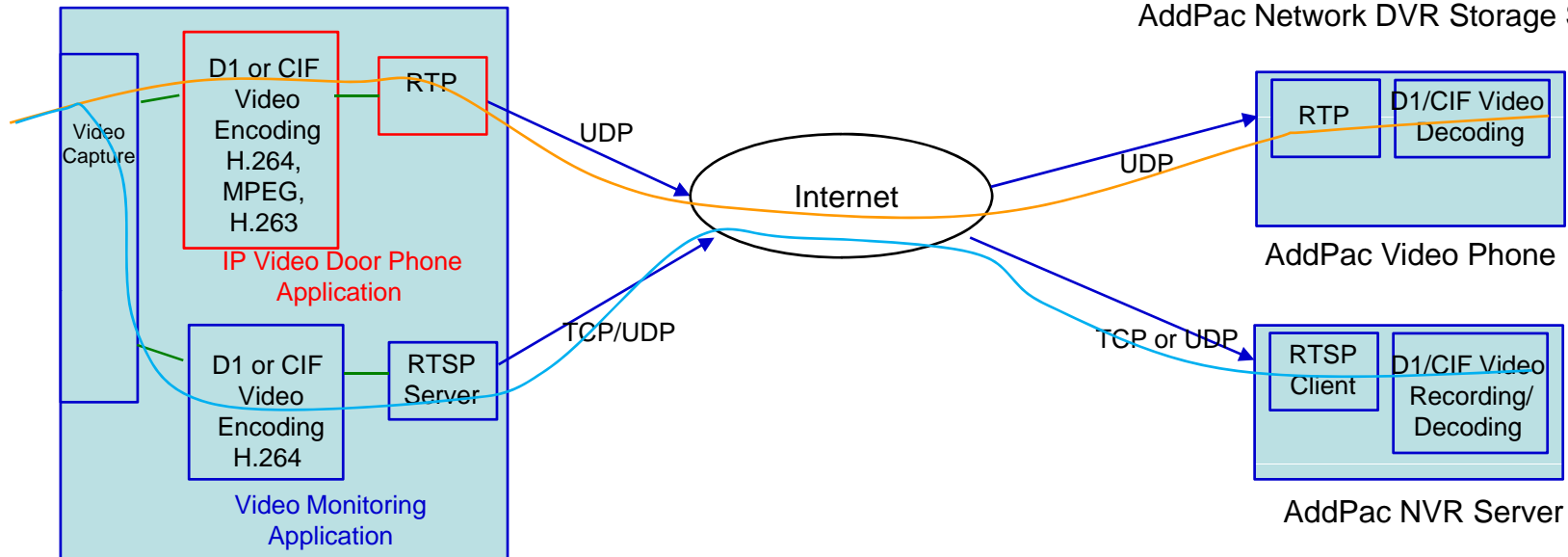


AddPac Video Phone



AddPac Network DVR Storage Server

AP-VAC60 IP Video Door Phone  
(Concurrent Dual Video Encoding)

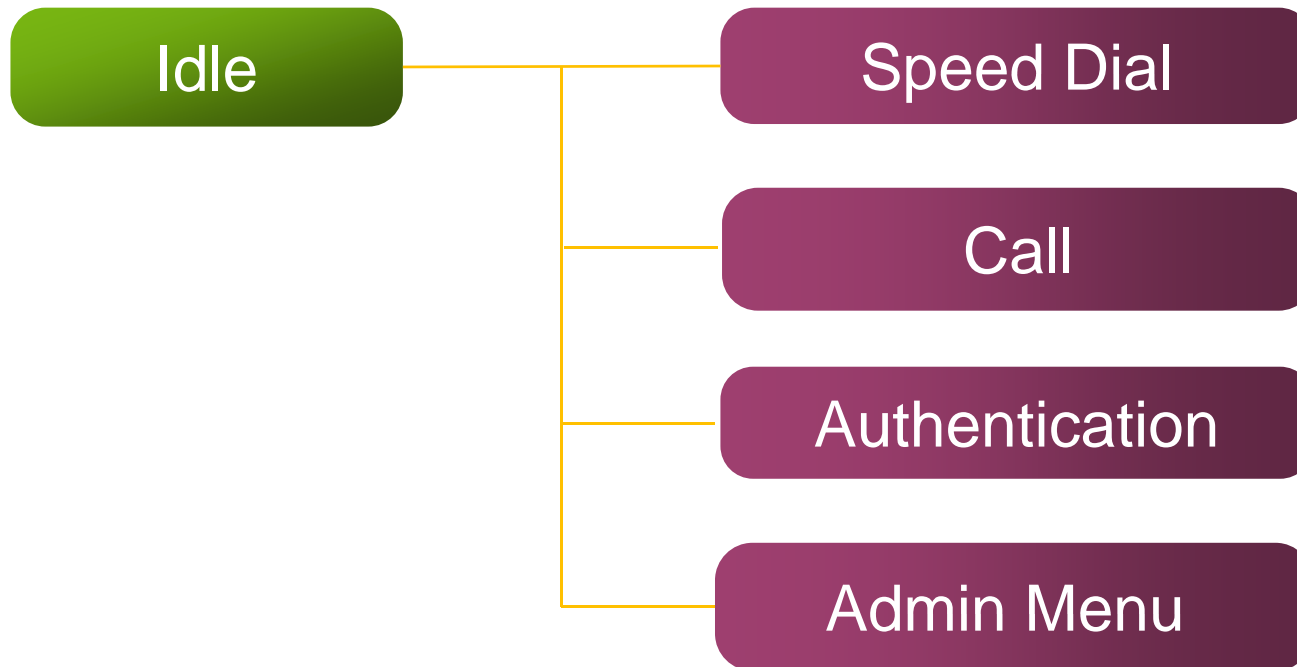




# OSD Software Feature

# OSD Software Features

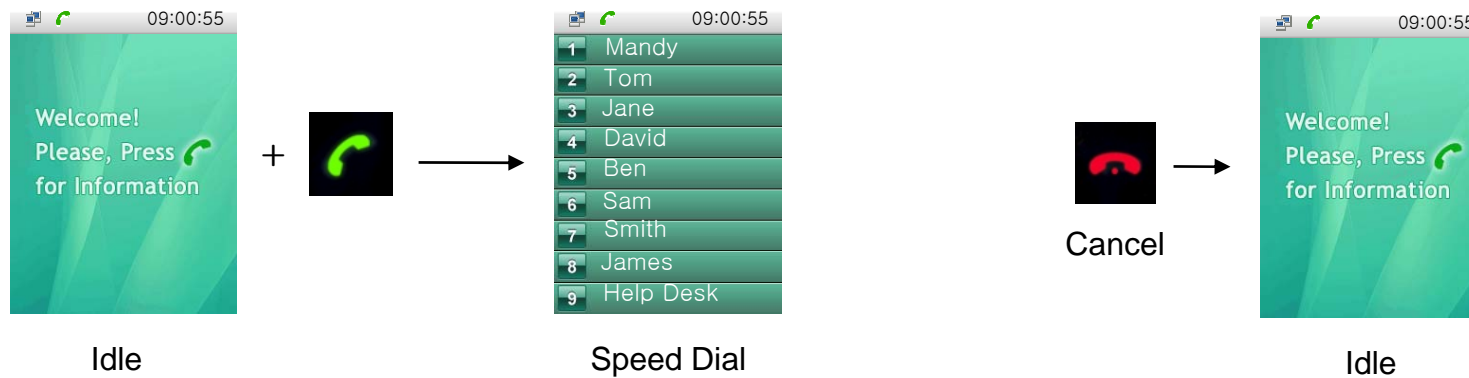
AP-VAC60 IP Video Door Phone



# OSD Software Features

AP-VAC60 IP Video Door Phone

## Speed Dial



# OSD Software Features

AP-VAC60 IP Video Door Phone

## Speed Dial

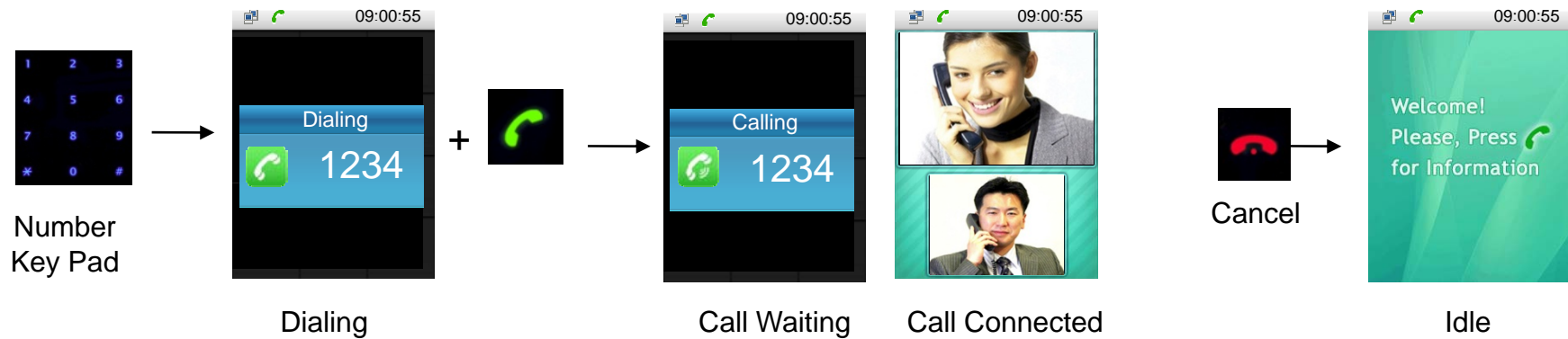




# OSD Software Features

AP-VAC60 IP Video Door Phone

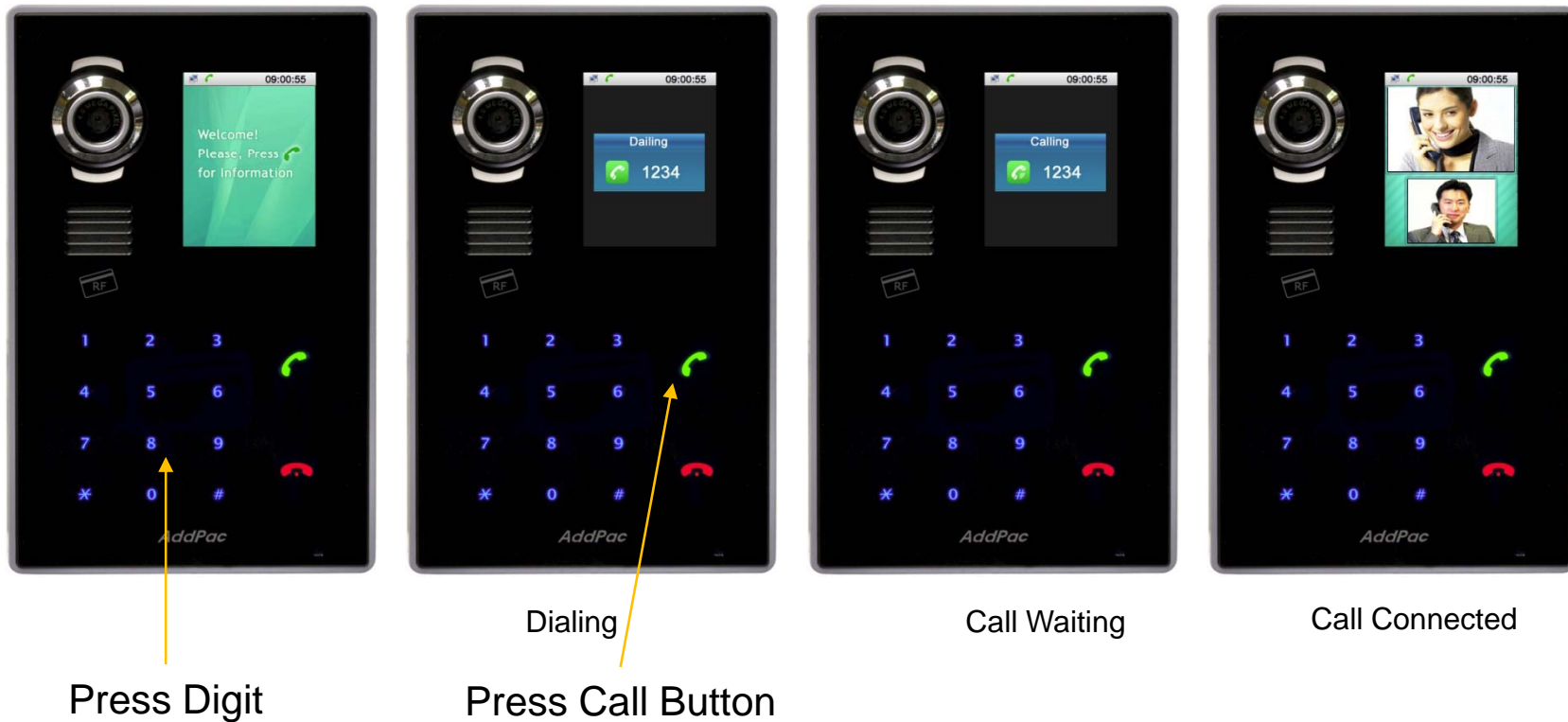
## Call



# OSD Software Features

AP-VAC60 IP Video Door Phone

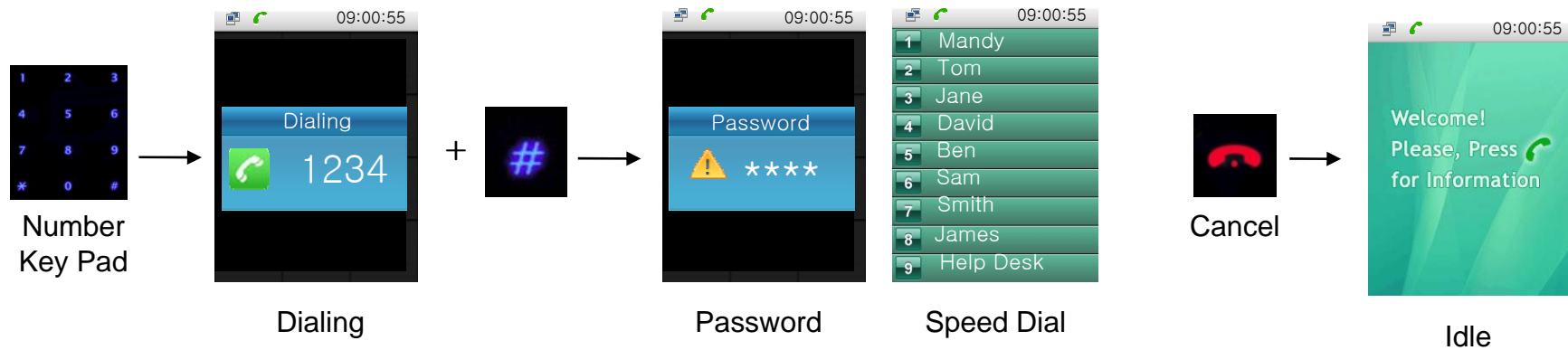
## Call



# OSD Software Features

AP-VAC60 IP Video Door Phone

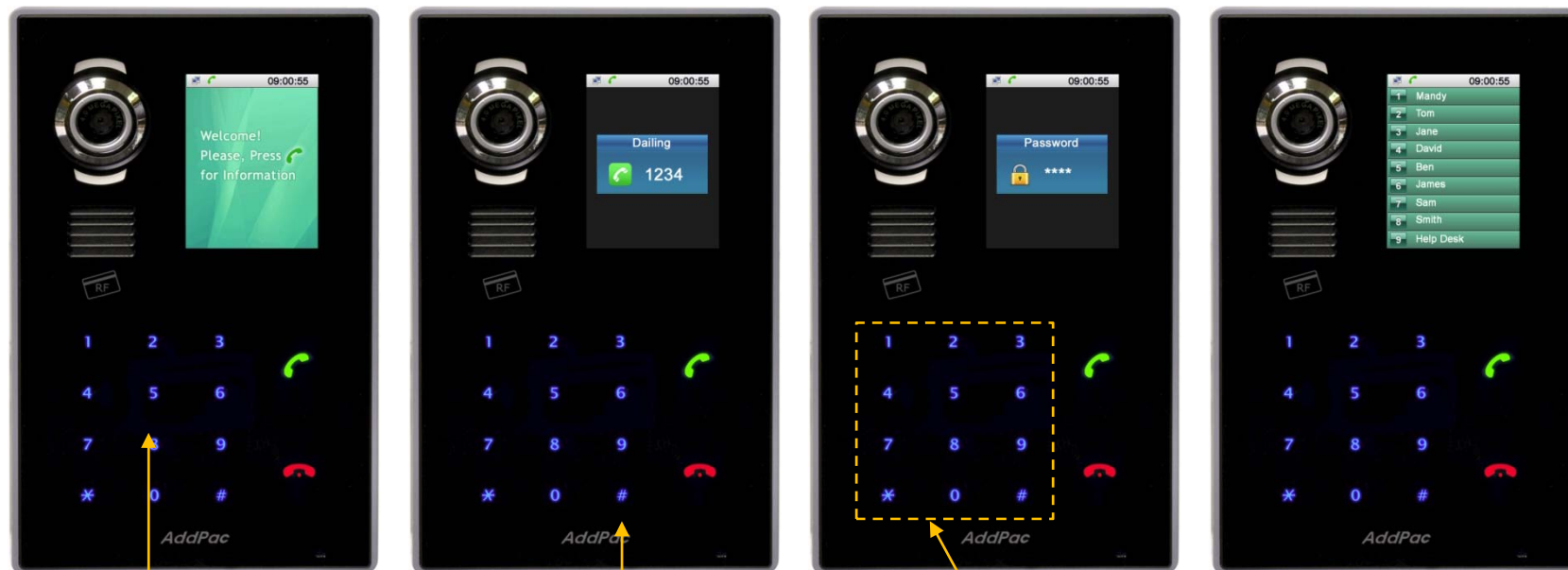
## Authentication



# OSD Software Features

AP-VAC60 IP Video Door Phone

## Authentication



Press Digit

Dialing

Press # key

Password

Press Password Key

Speed Dial

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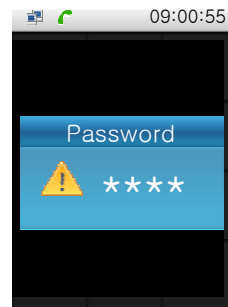
# OSD Software Features

AP-VAC60 IP Video Door Phone

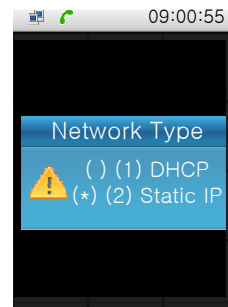
## Admin. Menu



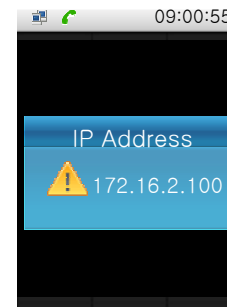
Repeat 5 times  
or more



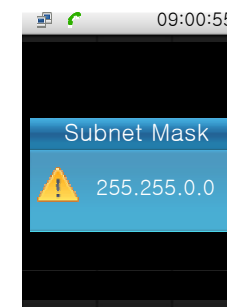
Password



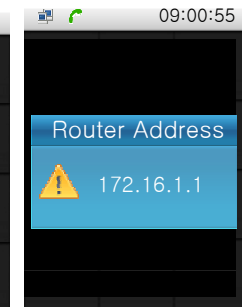
1) Network Type



2) IP Address



3) Subnet Mask

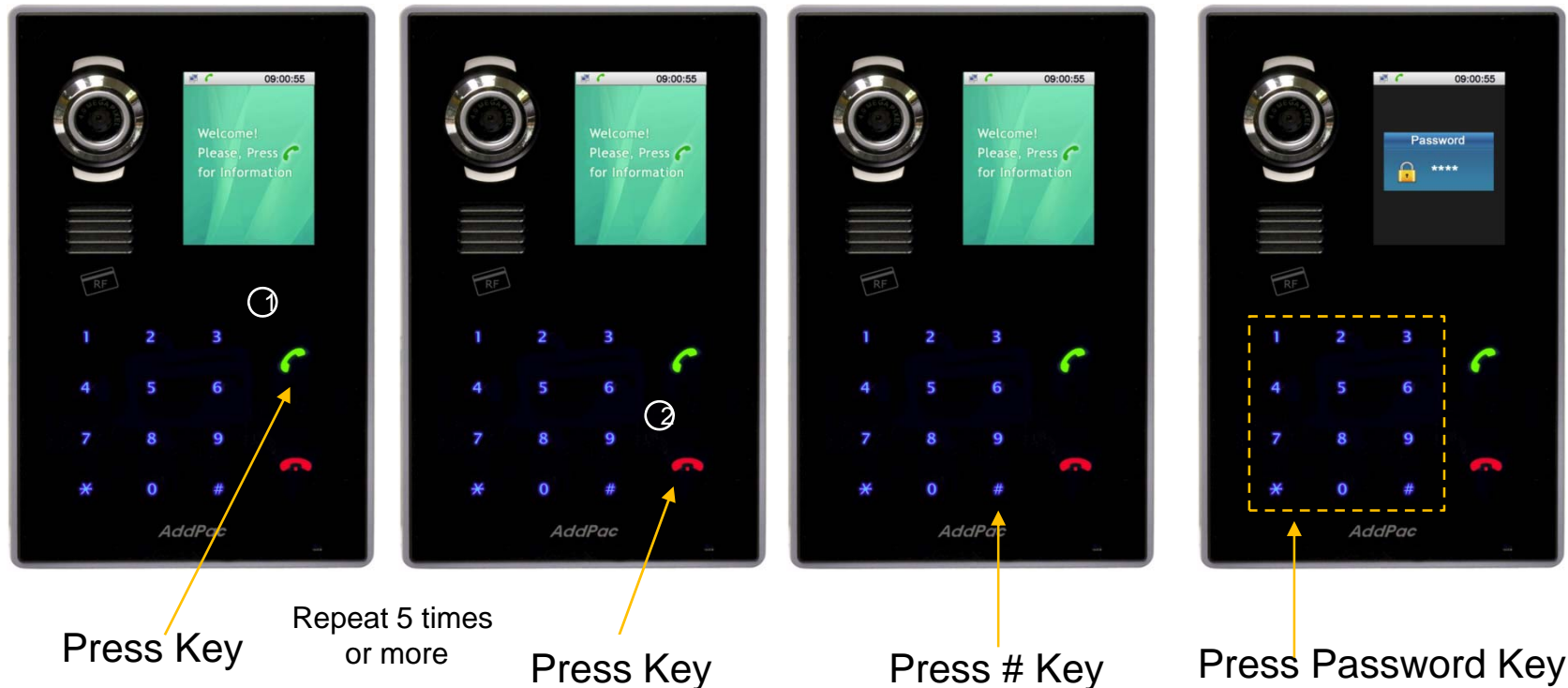


4) Router Address

# OSD Software Features

AP-VAC60 IP Video Door Phone

## Admin. Menu



# OSD Software Features

AP-VAC60 IP Video Door Phone

## Admin. Menu



1) Network Type

2) IP Address

3) Subnet Mask

4) Router Address



# Smart Web Manager (Example)



# Smart Web Manager

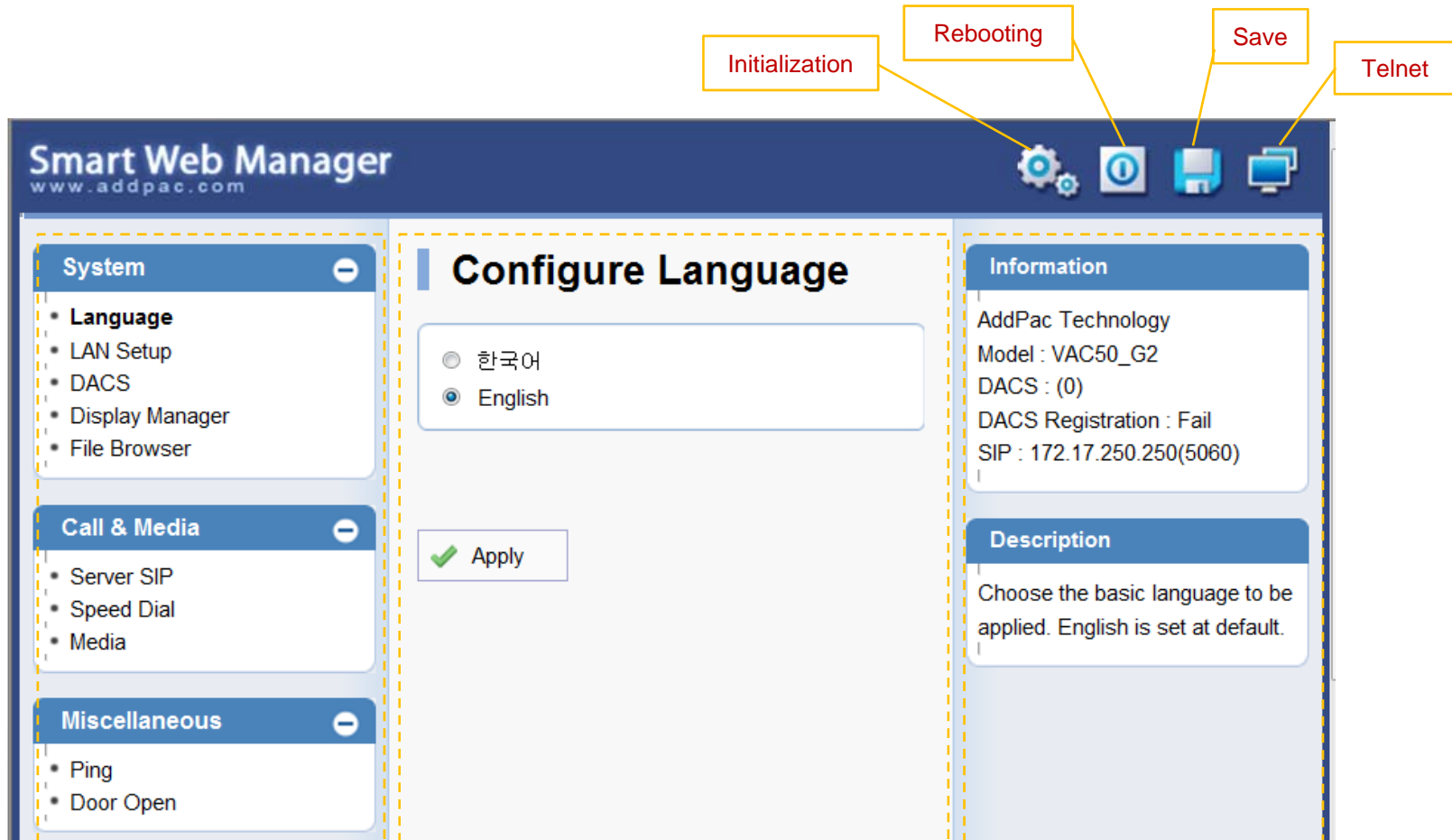
AP-VAC60 IP Video Door Phone

- Main Screen
- System
  - Language
  - LAN Setup
  - DACS
  - Display
  - File Browser
- SIP Call & Media
  - SIP (Session Initiation Protocol)
  - Speed Dial
  - Media
- Miscellaneous
  - Door Control and Test
  - Network Test



# Smart Web Manager : Main Screen

AP-VAC60 IP Video Door Phone



Menu Tree

Output Screen after  
Menu Select

System Information and  
Help Message

# Smart Web Manager : SIP configuration

AP-VAC60 IP Video Door Phone

## SIP (Session Initiation Protocol)

SIP server check if exist.

Use SIP Server

Yes  No

SIP Basic Information Display

Primary SIP Server

172.17.250.250 5060 Server address and Port (default 5060)

Secondary SIP Server

5060 Server address and Port (default 5060)

Local Domain Name

(SIP userpart of authentication)

SIP Signaling Port

5060 (default 5060, between 1 to 65535)

Register Expiration

60 (in seconds, default 60, between 10 to 86400)

Session Re-Fresh

INVITE  UPDATE

Session Expire Time

1800 (in seconds, default 1800, between 30 to 86400, 0 = disable)

Min-SE

1800 (in seconds, default 1800, between 30 to 86400)

Extension

1020 Extension Number, Password

Telephone Line Number and Password Configuration Same Information is used when DACS is connected

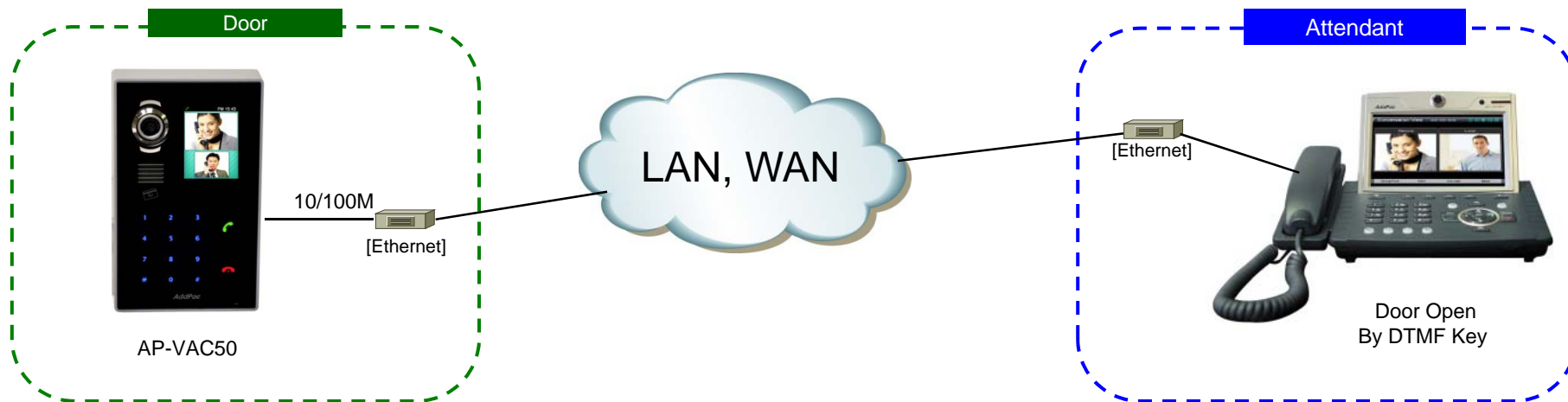
# AP-VAC60 IP Video Door Phone

## Application Area

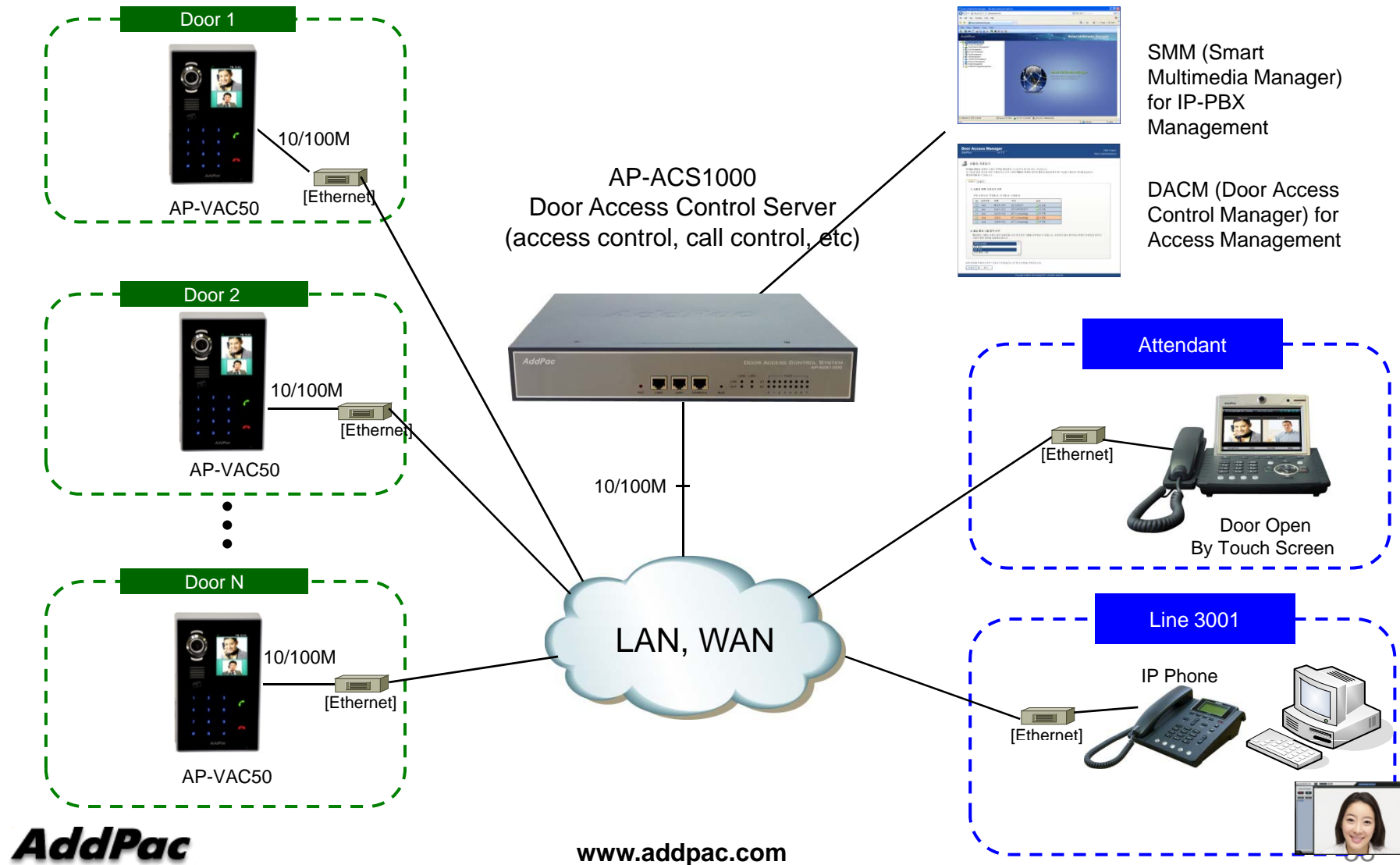
- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application
  - All AddPac Solution  
(Call Manager + Door Access Control Server)
  - Legacy PBX Environment
  - Legacy IP-PBX Environment
- IP Video Door Phone + IP Camera Service  
(Concurrent Support)



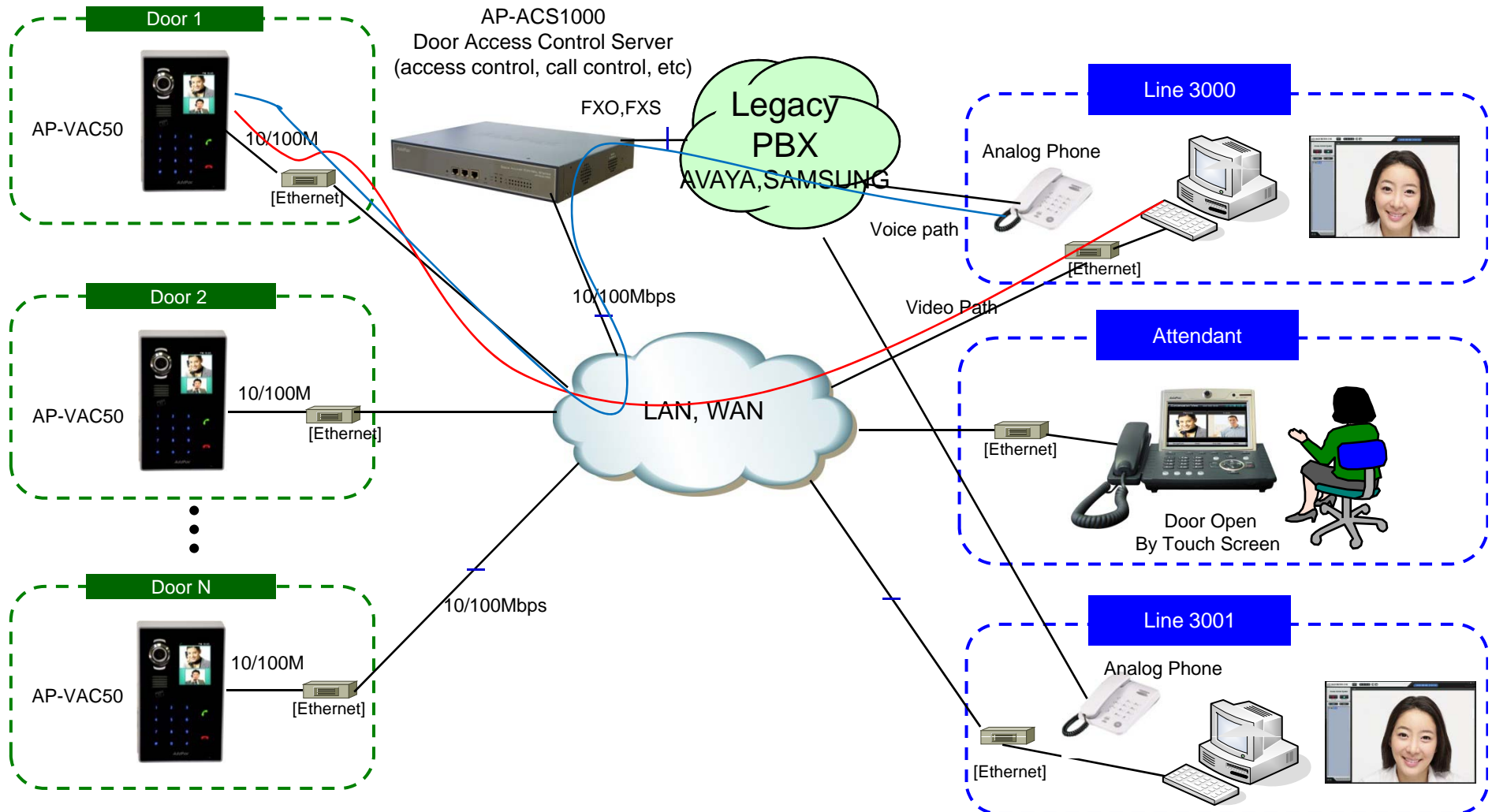
# Point-to-Point Connection (Simple Appl.)



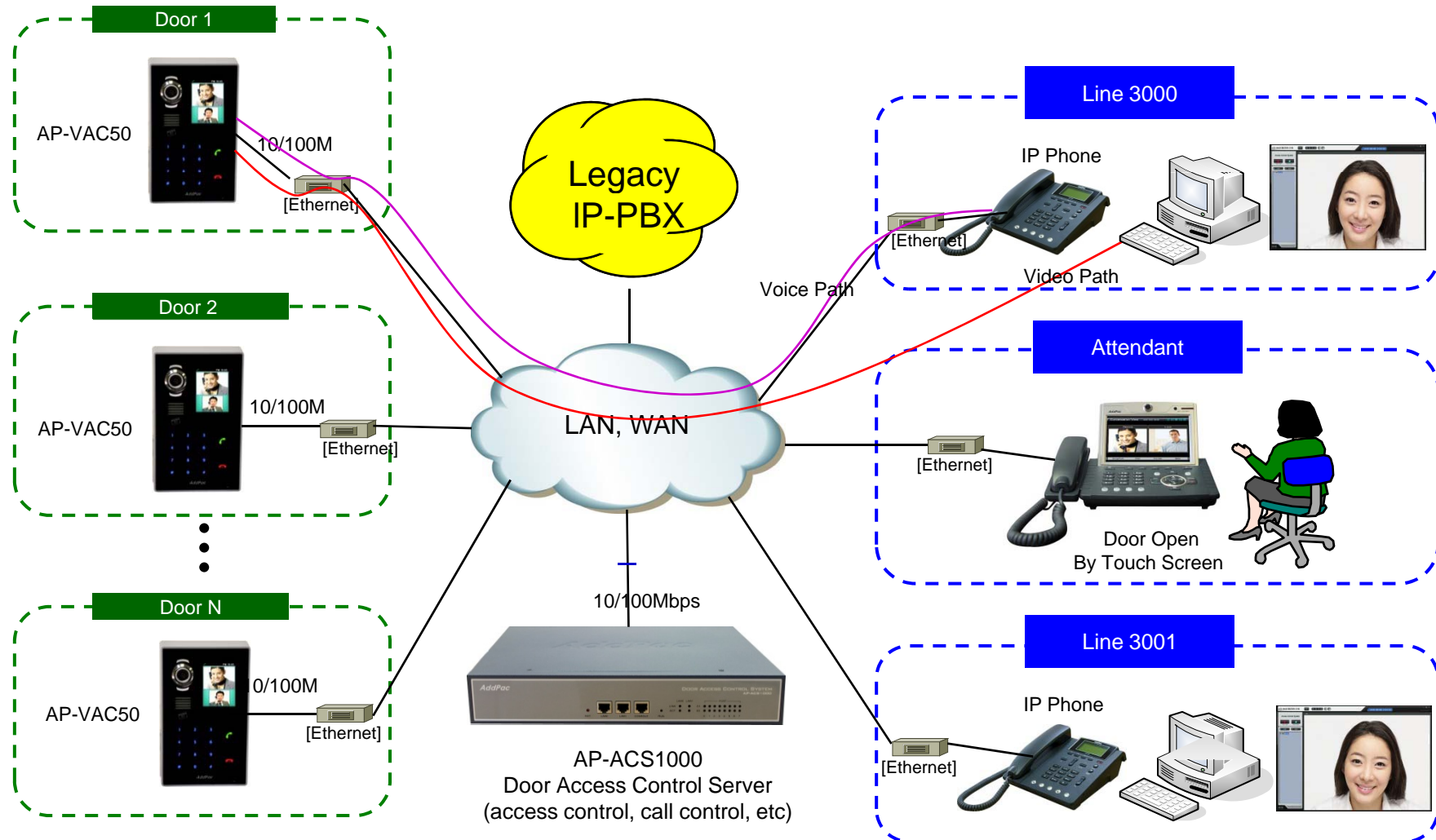
# Integrated Door Access Control and Call Control (All AddPac Solution)



# Legacy PBX Environment

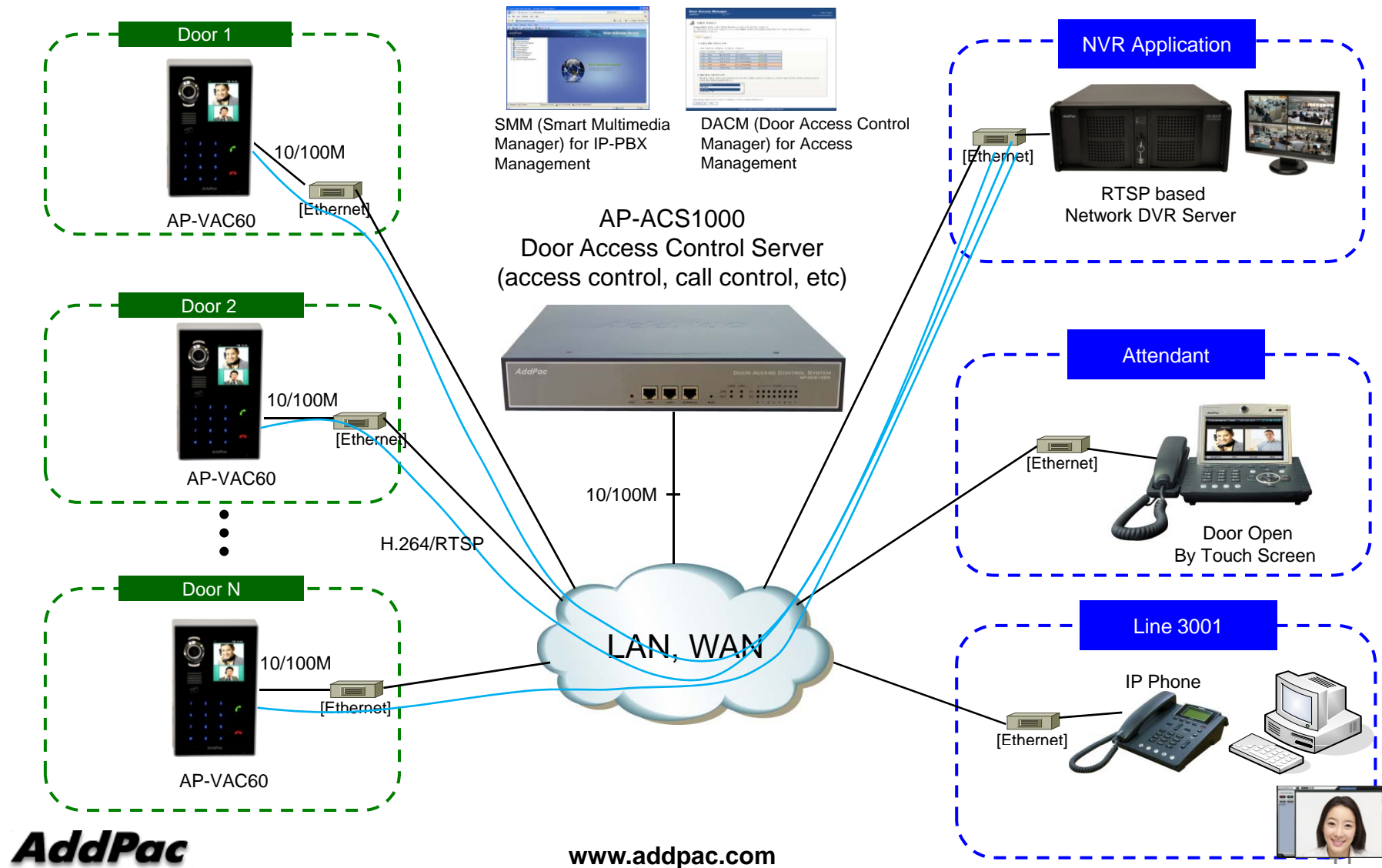


# Legacy IP-PBX Environment





# IP Video Door Phone App. + IP Camera App.



# Ordering Information

- **AP-VAC60 IP Video Door Phone Hardware**
  - AP-VAC60 Video Phone Main Body
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 2.4 Inch LCD, Built In Camera, Side Light
  - Internal MIC, Internal Speaker
  - 1-ports 10/100Mbps Fast Ethernet
  - PoE Interface
  - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-VAC60**
- **Including 1 Year Hardware Warranty**
- **Product Documents**
  - Install and Operation Guide (PDF)
- **Pricing**
  - AddPac Technology Regional Sales Manager
  - Authorized Sales and Marketing Representatives
  - Please Contact [www.addpac.com](http://www.addpac.com)



# NVR Storage Solution Component Features



# AP-HNR1004

## Standalone Network DVR

# Product Overview

## AP-HNR1004 Standalone Network DVR

- High-Performance Standalone Network DVR Features
- H.264 Video Codec BP/MP/HP
- HD, D1 Video Resolution Support
- Video Out : HDMI, DVI, RGB Interface
- HD Video Recording and Streaming Service
- Smart DVR Viewer Support (MS-Window S/W)
- Smart DVR Manager Support (MS-Window S/W)
- File Back Manager Support (MS-Window S/W)
- Powerful Management and User Friendly Features
- High-performance Audio and Video Service
- Firmware Upgradeable Architecture
- Up to 4 x 3.5Inch Hard Disk (SATA Type)
- One(1) DVD Writer for Video File Backup
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- USB Interface Support (Front Side, Back Side)

# Hardware Specification

## AP-HNR1004 Standalone Network DVR

High End  
Processor

- High Performance Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100/1000Mbps Fast Ethernet
  - Video Output Interface
    - HDMI, DVI,RGB Video Output
  - USB 2.0 Interfaces for Mouse, Keyboard, etc
  - IR Input port for Remote Control
  - Up to Four(4) Hard Disk

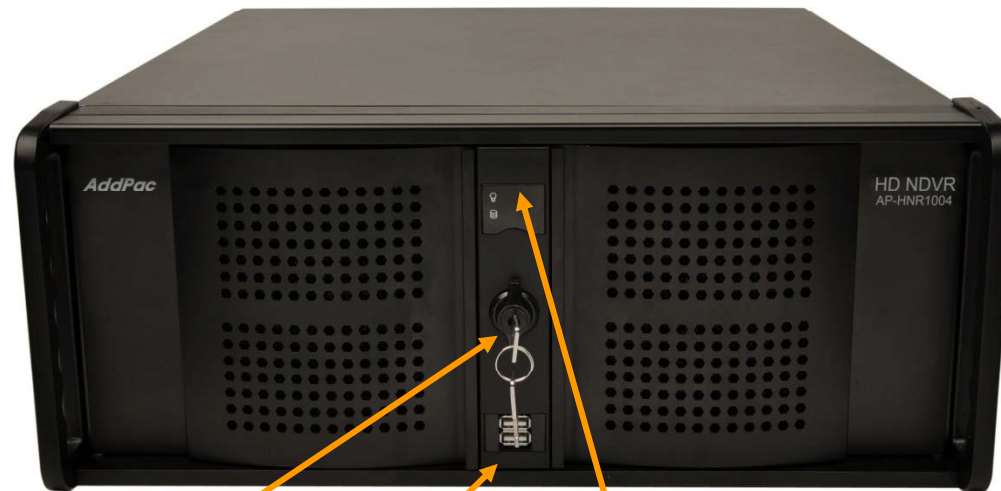


# Hardware Specification

AP-HNR1004 Standalone Network DVR

High End Processor

AP-HNR1004 Front Side



Cabinet Open Key

USB Interface

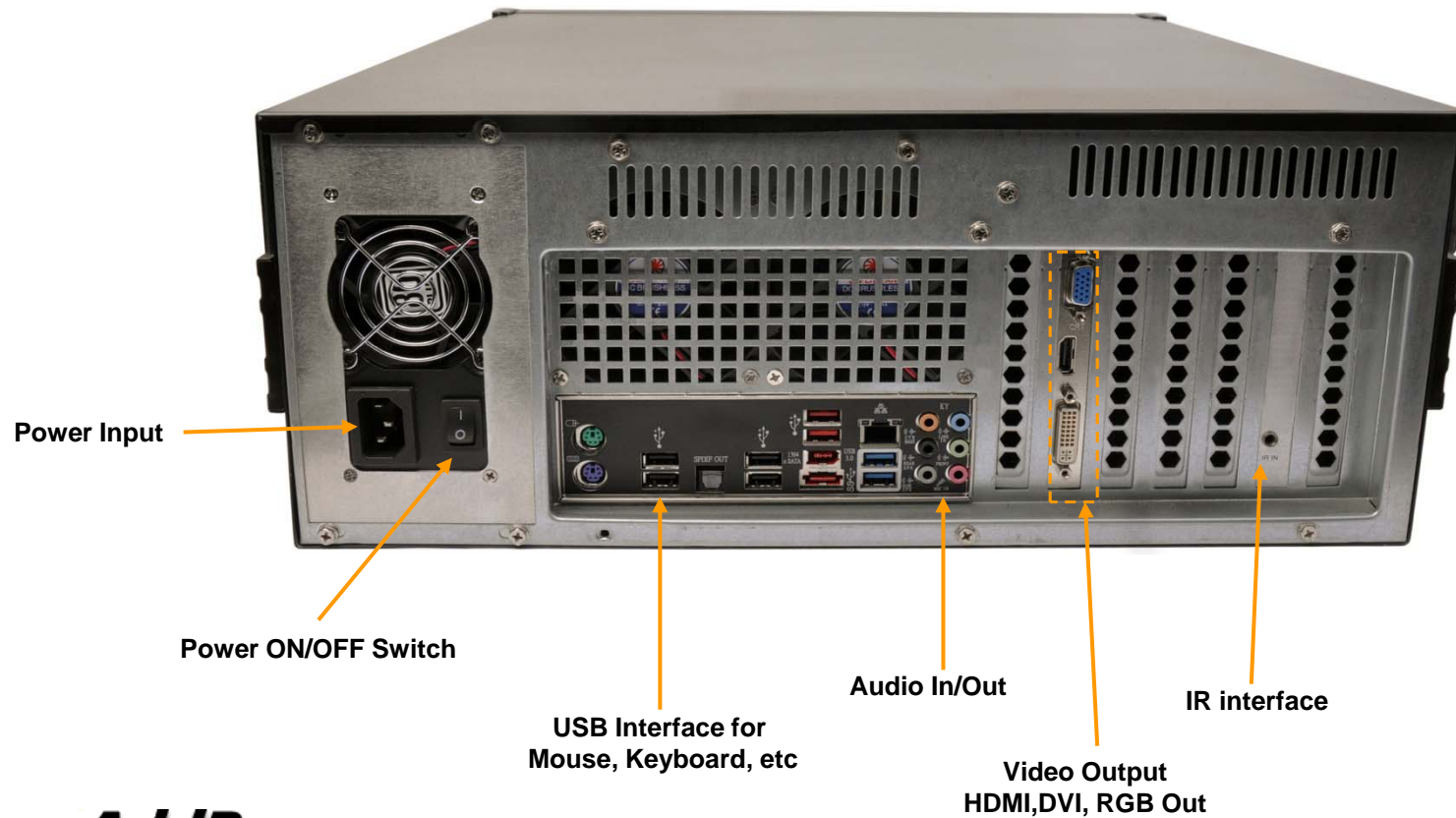
Power & HDD Access Indication LAMP

# Hardware Specification

AP-HNR1004 Standalone Network DVR

High End  
Processor

AP-HNR1004 Back Side







# AP-SDRS2000 HD NVR Storage Server

# Product Overview

## AP-SDRS2000 NVR Storage Server

- High-Performance HD/D1 Network DVR Features
- Linux Operating System (Option : Window Version)
- H.264 Video Codec BP/MP/HP
- Full HD, HD, D1 Video Resolution Support
- HD Video Recording and Streaming Service
- Smart DVR Viewer Support (MS-Window S/W)
- Smart DVR Manager Support (MS-Window S/W)
- File Back Manager Support (MS-Window S/W)
- Powerful Management and User Friendly Features
- High-performance Audio and Video Service
- Firmware Upgradeable Architecture
- Up to 4 x 3.5Inch Hard Disk (SATA Type, 2Tera Byte Support)
- One(1) DVD Writer for Video File Backup
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- USB Interface Support (Front Side, Back Side)

# Hardware Specification

AP-SDRS2000 NVR Storage Server

High End  
Processor

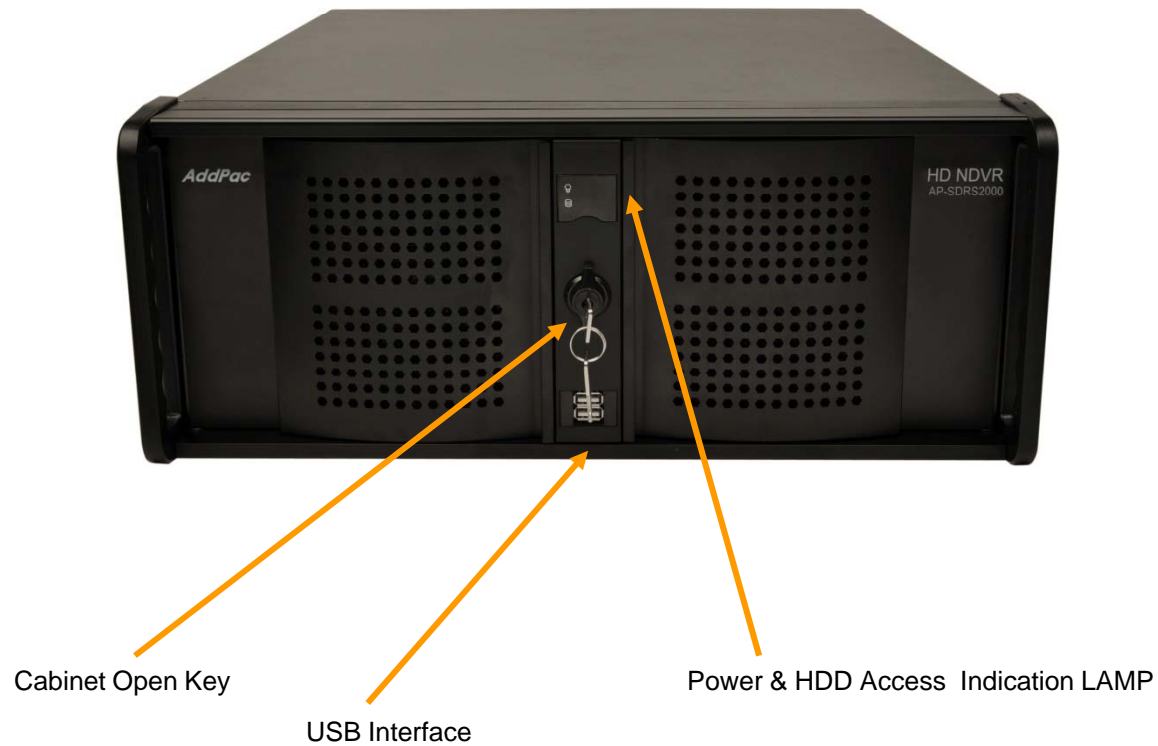
- High Performance Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100/1000Mbps Fast Ethernet
  - Video Output Interface
    - HDMI, DVI,RGB Video Output
  - USB 2.0 Interfaces for Mouse, Keyboard, etc
  - One(1) DVD Writer for Video File Backup
  - Up to Four(4) Hard Disk

# Hardware Specification

AP-SDRS2000 NVR Storage Server

High End  
Processor

AP-SDRS2000 Front Side

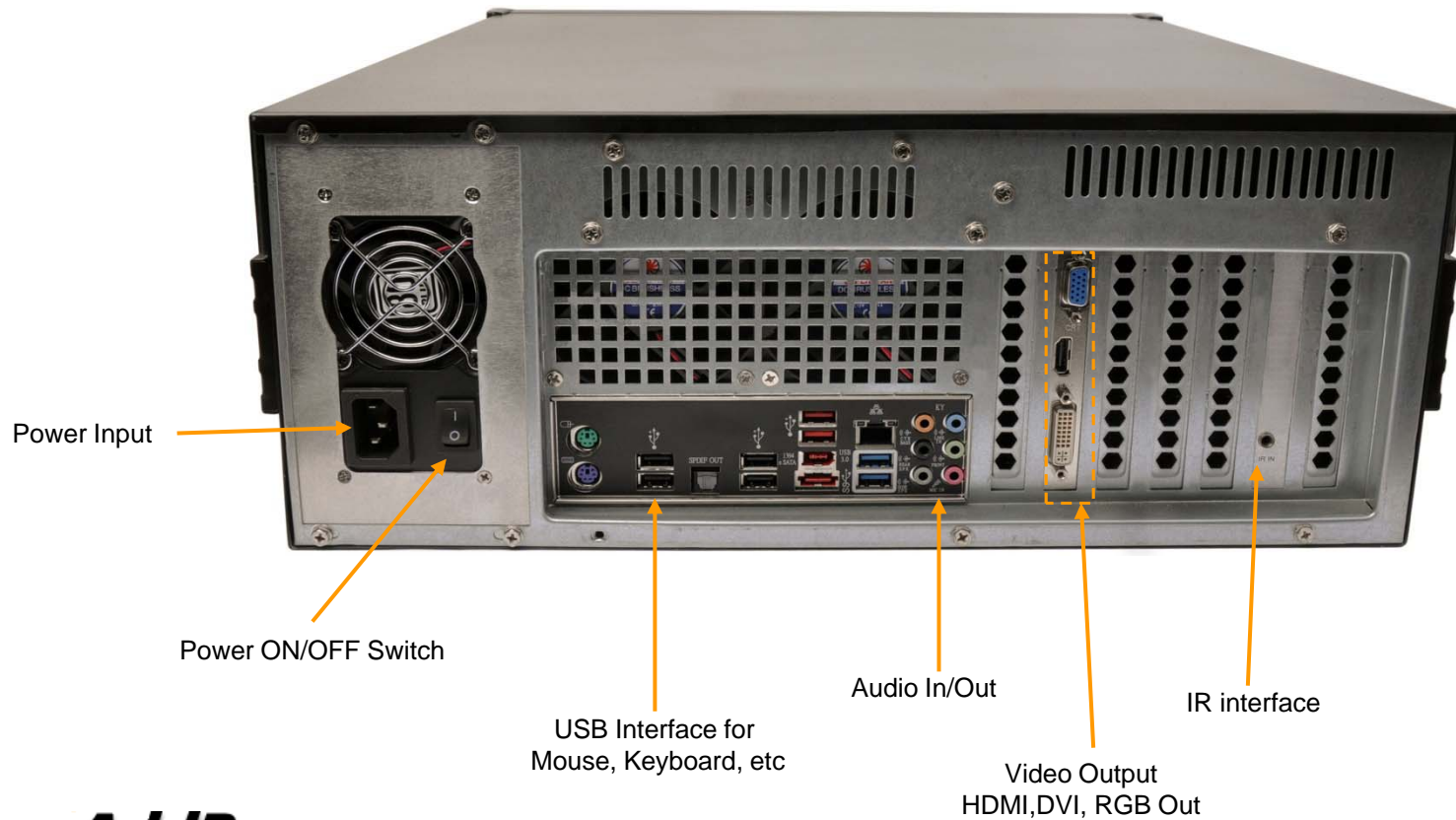


# Hardware Specification

AP-SDRS2000 NVR Storage Server

High End Processor

AP-SDRS2000 Back Side



# HD NVR Storage Server Features

- Encoder / Decoder Interface
  - UDP/RTP
  - RTSP (Real Time Streaming Protocol)
- Recording
  - Manual Recording
  - Schedule Based Recording
  - Recording Monitoring
  - Recording Media File Maintenance
- Management
  - Web Based Management
  - Smart DVR Manager (SDM)
  - SNMP (Simple Network Management Protocol)



# Smart DVR Manager

# Smart DVR Manager Features

- System Management
  - User, Group Management
  - Camera Management
  - Schedule Management
- Recording
  - Recording Start/Stop
  - Recording Media File Searching and Maintenance
  - File Download and Excel Exporting
- Monitoring
  - System Resource Monitoring (CPU, Memory, HDD and etc)
  - Live Session Monitoring
  - Media File Play Session Monitoring



# Smart DVR Manager : Main Layout

The screenshot shows the Smart DVR Manager interface with the following components highlighted:

- Camera Searching**: A yellow box pointing to the search bar in the top navigation area.
- System User configuration**: A yellow box pointing to the 'Server Port' field, which is set to 8020.
- Camera List**: A yellow box pointing to the 'Camera' folder in the left-hand tree view, which contains sub-items like '3층창문\_HD' and '옥상\_HD'.
- Session Monitoring**: A yellow box pointing to the 'Session' folder in the left-hand tree view, which contains sub-items like 'Live', 'Play', 'Record', and 'Sequence'.
- Login User Monitoring**: A yellow box pointing to the 'Manager List' table, which shows a list of users and their IP addresses.

User	IP
root	172.16.1.14
root	172.16.1.14
root	172.16.34.2

At the bottom of the interface, the status bar displays: 2010-03-12 오후 3:42:59 | 172.16.14.113 : 8020 | Version 2.1.3723 | root | Viewer : 0 Manager : 3

# Smart DVR Manager : Recording File Searching

The screenshot displays the Smart DVR Manager web interface. On the left is a navigation tree for IP address 172.16.14.113, with the 'Record' option selected. The main area shows a 'Record History' table with 3 results. A search bar at the top right contains the text 'Recording File Download' and 'Excel Exporting'. A yellow box labeled 'Recording Media Searching Result' points to the table. The status bar at the bottom shows 'Total 3 results found.' and system information including date, IP, version, and user.

CameraNa...	StartTime	EndTime	Duration	URL	Camera Gr...	User ID	Description	Video Size	FPS
옥상_HD	2010-03-1...	2010-03-1...	00:00:00	file/1001v...	/	root	no contents	1280X720	30
옥상_HD	2010-03-1...	2010-03-1...	00:00:10	file/1001v...	/	root	no contents	1280X720	30
옥상_HD	2010-03-1...	2010-03-1...	00:00:39	file/1001v...	/	root	no contents	1280X720	30

# Smart DVR Manager : Advanced Recording Searching

Smart DVR Manager

File Tool Configuration Help

Smart DVR Recording Server

Advanced Searching

Record History

CameraNa...	StartTime	EndTime	Duration	URL
목상_HD	2010-03-1...	2010-03-1...	00:00:00	file/100
목상_HD	2010-03-1...	2010-03-1...	00:00:10	file/100
목상_HD	2010-03-1...	2010-03-1...	00:00:39	file/100

Advanced Search

Record Time FROM 2010-03-12 오전 12:00:00 TO 2010-03-12 오후 11:59:59

Content Relation

Camera Name like 3	AND
Time 2010-03-12 오전 12:00:00 ~ 2010-03-12 오후 11:59:59	NONE

Advanced Searching Rules

Selected Searching Rule Clear

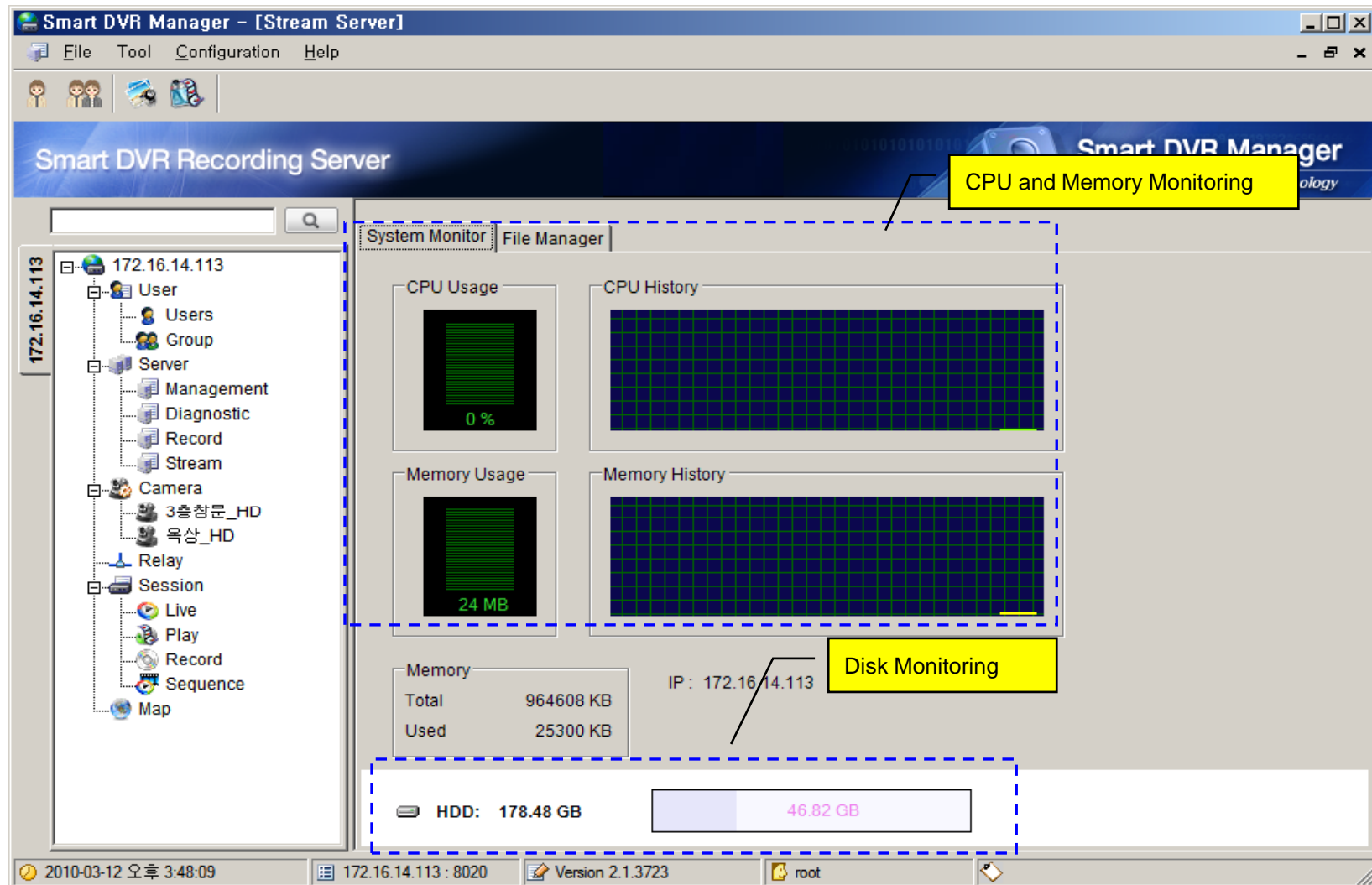
Searching Rule All Clear

Search Cancel

Total 3 results found.

2010-03-12 오후 3:44:48 172.16.14.113 : 8020 Version 2.1.3723 root Group : 0 Camera : 2 (Active : 2) Seq : 0

# Smart DVR Manager : System Monitoring



The screenshot displays the 'Smart DVR Manager - [Stream Server]' application window. The interface is divided into several sections:

- System Monitor:** This section is highlighted with a blue dashed box and contains four monitoring panels:
  - CPU Usage:** A gauge showing 0% usage.
  - CPU History:** A line graph showing CPU usage over time.
  - Memory Usage:** A gauge showing 24 MB usage.
  - Memory History:** A line graph showing memory usage over time.
- Disk Monitoring:** A yellow callout box points to the 'HDD: 178.48 GB' section, which includes a progress bar showing 46.82 GB used.
- Memory Summary:** A table showing memory statistics:

Memory	Total	Used
	964608 KB	25300 KB
- File Manager:** A tree view on the left shows the directory structure for IP 172.16.14.113, including folders for User, Server, Camera, and Session.

The status bar at the bottom shows the date and time (2010-03-12 오후 3:48:09), the IP address (172.16.14.113 : 8020), the version (Version 2.1.3723), and the current user (root).

# Smart DVR Manager : Schedule

**User Defined Schedule Lists**

**Delete Schedule**

**Weekly and Daily Time Schedule**

**Add Schedule**

**User define Special Day**

**Set Special Day using calendar**

Week	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								
Sun																								
Holiday																								

Special Day	Duration
2010-03-19	00:00-00:00
2010-03-28	00:00-00:00



# Smart DVR Media Manager

# Smart DVR Media Manager Features

- Recording History Searching
- Recording History Management
- Recording File Upload / Download
- Play Recording Media File
- Schedule Backup
- Event History

# Smart DVR Media Manager : Main Layout

**\*Searching and Download/Upload Function about selected Window : Camera Search, Update, File Searching, Download/Upload, Delete, Replay, etc**

**Recorded File Searching at Server using Group and Camera Tree**

카메라 이름	IP 주소	그룹	설명	녹화시간	진행시간	파일 이름	파일 크기
3층청문_HD	172.16.23.97	/	(null)	2010-03-12 15:4...	00:00:09	2010031206474...	8,890 KB
3층청문_HD	172.16.23.97	/	(null)	2010-03-12 11:4...	00:00:00	2010031202450...	214,637 KB
3층청문_HD	172.16.23.97	/	(null)	2010-03-12 10:0...	00:24:17	2010031201065...	1,424,769 KB
3층청문_HD	172.16.23.97	/	(null)	2010-03-12 10:0...	00:00:00	2010031201025...	90,190 KB
3층청문_HD	172.16.23.97	/	(null)	2010-03-11 17:3...	00:00:00	2010031108373...	286,144 KB

**Recorded File Display at Server**

**Recorded File Searching at Local PC using Group and Camera Tree**

**Recorded File Display at Local PC**

2010-03-12 오후 5:21:49 version 1.0.3723 172.16.14.113 : 8020 root Scheduler waiting



# Smart DVR Media Manager : Recorded File Upload / Download

The screenshot displays the 'Smart DVR Media Manager' application window. A 'Download' dialog box is open, showing a list of files to be downloaded from a remote database. The dialog includes a table with columns for file name, recording duration, file size, recording time, and status. Below the table, there are progress bars for file transfer and conversion, along with checkboxes for file conversion and deletion options.

**Download Dialog Table:**

파일 이름	총 시간	파일 크기	녹화시간	상태
20100312064746.pma	00:00:09	8,890 KB	2010-03-12 15:4...	Done
20100312024507.pma	00:00:00	214,637 KB	2010-03-12 11:4...	Downlo...

**File Transfer Progress:**

파일 이름	파일 크기
20100312064746.pma	8,890 KB
20100312024507.pma	214,637 KB
2010031201065...	1,424,769 KB
2010031201025...	90,190 KB
2010031108373...	286,144 KB

**Annotations:**

- Recorded File List for File Backup** : File Name, Recording Duration Time, File Size, File Backup Status
- Display the File Transfer Progress Status for Backup (Server to Local PC)**
- Display File Conversion Progress Status** : PMA to AVI format (Option), etc

# Smart DVR Media Manager : Media Replay

The screenshot displays the AddPac Smart DVR Media Manager interface. A yellow callout box points to the VLC media player window, which is playing a recorded file. The VLC window title is "rtsp://172.16.14.113:554/file/1001/video1/20100311054337.pma - VLC 미디어 플레이어". The video content shows a street scene with cars and buildings, with Korean text "경인선 도화-3 (전환중)" overlaid. The VLC interface includes a progress bar, playback controls, and a volume slider.

Recorded File Replay  
- Recorded File Replay at Server or Local PC using media Player

카메라 이름	IP 주소	그룹	설명	녹화시간	진행시간	파일 이름	파일 크기
옥상_HD	172.17.120.99	/	(null)	2010-03-11 14:4...	00:00:39	2010031105433...	39,052 KB
옥상_HD	172.17.120.99	/	(null)	2010-03-11 14:2...	00:00:10	2010031105252...	10,298 KB
옥상_HD	172.17.120.99	/	(null)	2010-03-11 14:0...	00:00:00	2010031105015...	436 Byte

# Smart DVR Media Manager : Media File Attribute

The screenshot displays the 'Smart DVR Manager' interface. A central dialog box titled '녹화파일 속성' (Recorded File Attribute) is open, showing the following details:

속성 이름	값
Record ID	3
Comment	No Comment
Camera GUID	745430054867
Camera Name	육상_HD
Camera Group	/
Camera URL	rtsp://172.16.14.113/1001/video1
Camera IP Address	172.17.120.99
Description	(null)
Video Codec	H264
Video Bandwidth	8192
Resolution	1280*720
FPS	30
Audio Codec	G711A
Audio Bandwidth	8192
SDP	
Start Time	2010-03-11 14:43:37
End Time	2010-03-11 14:44:16
Duration	00:00:39
File Directory	745430054867/2010/03/11/
File Name	20100311054337.pma
File Size	39,052 KB
File URL	file://1001/video1/20100311054337.p...
User	AddPac (root)

The background interface shows a tree view of 'Remote Database' and 'Local Database' with camera folders like '3층창문\_HD'. A table on the right lists recorded files with columns for '진행시간' (Progress Time), '파일 이름' (File Name), and '파일 크기' (File Size).

# Smart DVR Media Manager : Schedule

**Schedule Backup Configuration :**  
Scheduled Backup Configuration for Automatic File Backup  
- Start Time, Repetition (Daily, Weekly, Monthly)

**Schedule Backup Option**  
-Backup Duration, File Delete, File Conversion, Camera Setting, etc



# Thank you!

**AddPac Technology Co., Ltd.**  
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail [sales@addpac.com](mailto:sales@addpac.com)