

AP-VAC100

IP Video Door Phone

High Performance IP Video Door Phone Solution



IP Camera Service for Video
Monitoring

AddPac

AddPac Technology

2013, Sales and Marketing

www.addpac.com

Contents

- Product Overview
- Protocol Diagram for IP Video Monitoring Service
- Concurrent Dual Video Encoding Service
(IP Video Door Phone Service + IP Camera Service)
- Optional Network DVR Solution



Product Overview

AP-VAC100 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- High Quality 3.5 Inch LCD, 320 x 240 Video Resolution
- RF Card Support
- 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
- Advanced Voice QoS Mechanism



Video Monitoring Service (IP Camera Service)

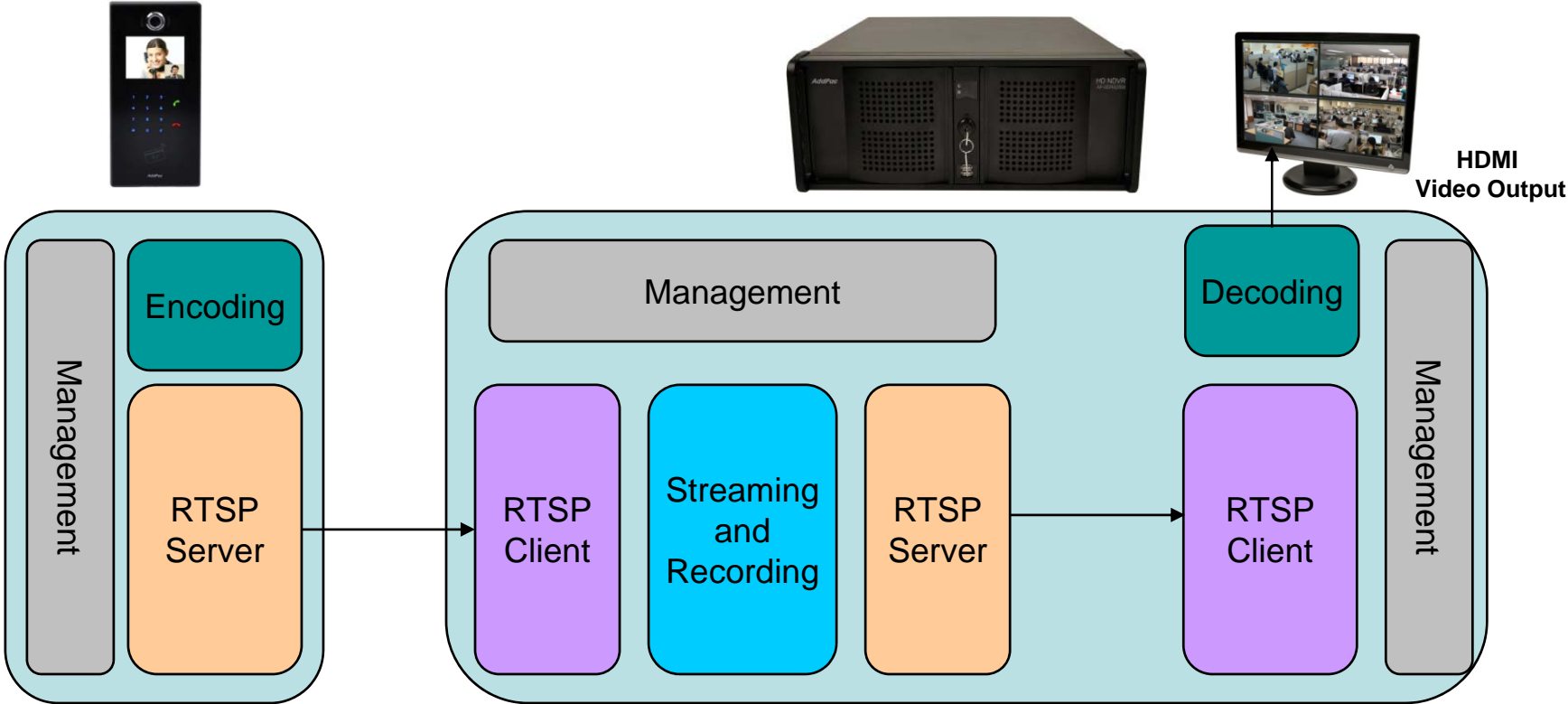
Video Monitoring Service Protocol Diagram

AP-VAC100 IP Video Door Phone

Small Scale Network DVR Solution (All in One)

AP-VAC100 IP Camera Service

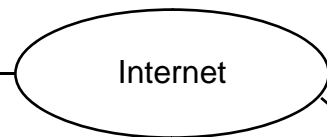
AP-HNR1004 Network DVR Storage Server



Concurrent Dual Video Encoding Service

AP-VAC100 IP Video Door Phone

AddPac IP Video Door Phone

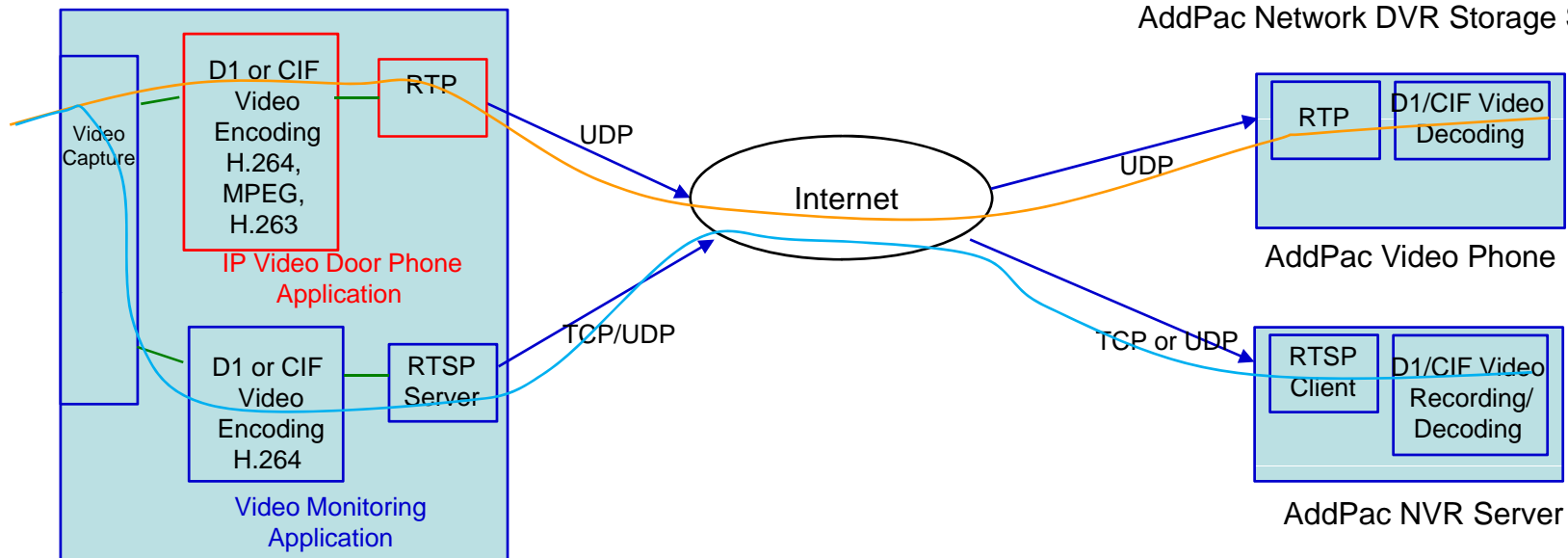


AddPac Video Phone



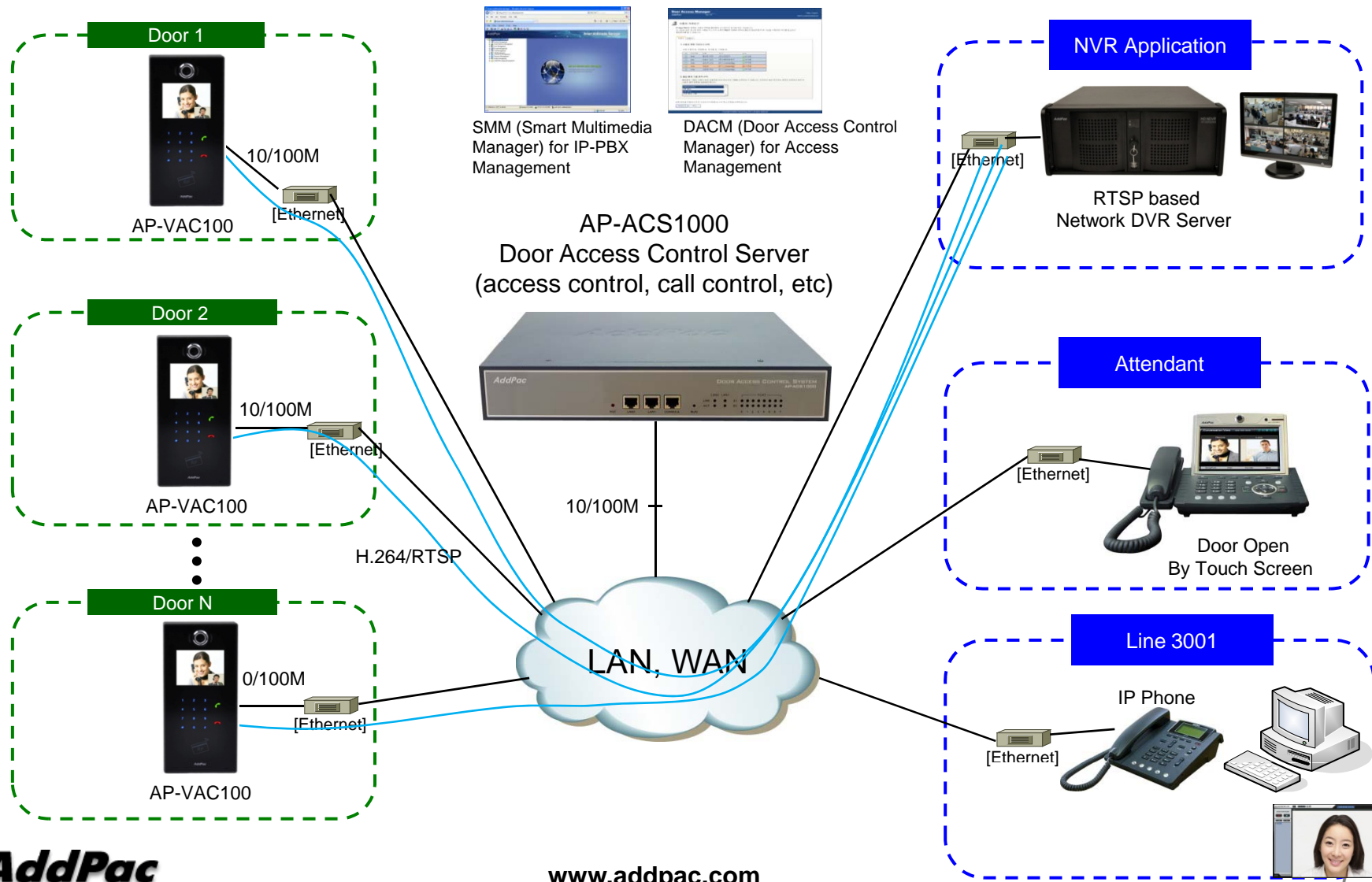
AddPac Network DVR Storage Server

AP-VAC100 IP Video Door Phone
(Concurrent Dual Video Encoding)



IP Video Door Phone App. + IP Camera App.

AP-VAC100 IP Video Door Phone



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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

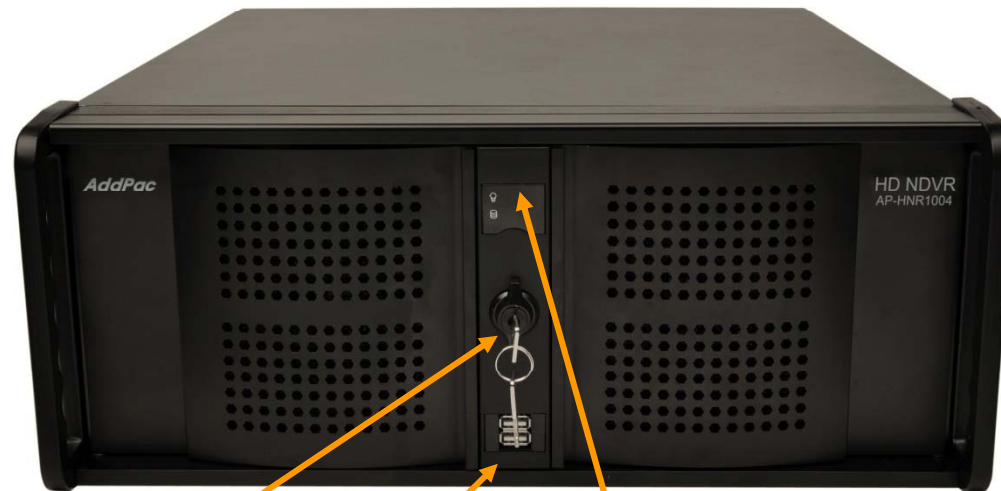


Hardware Specification

AP-HNR1004 Standalone Network DVR

High End Processor

AP-HNR1004 Front Side



Cabinet Open Key

USB Interface

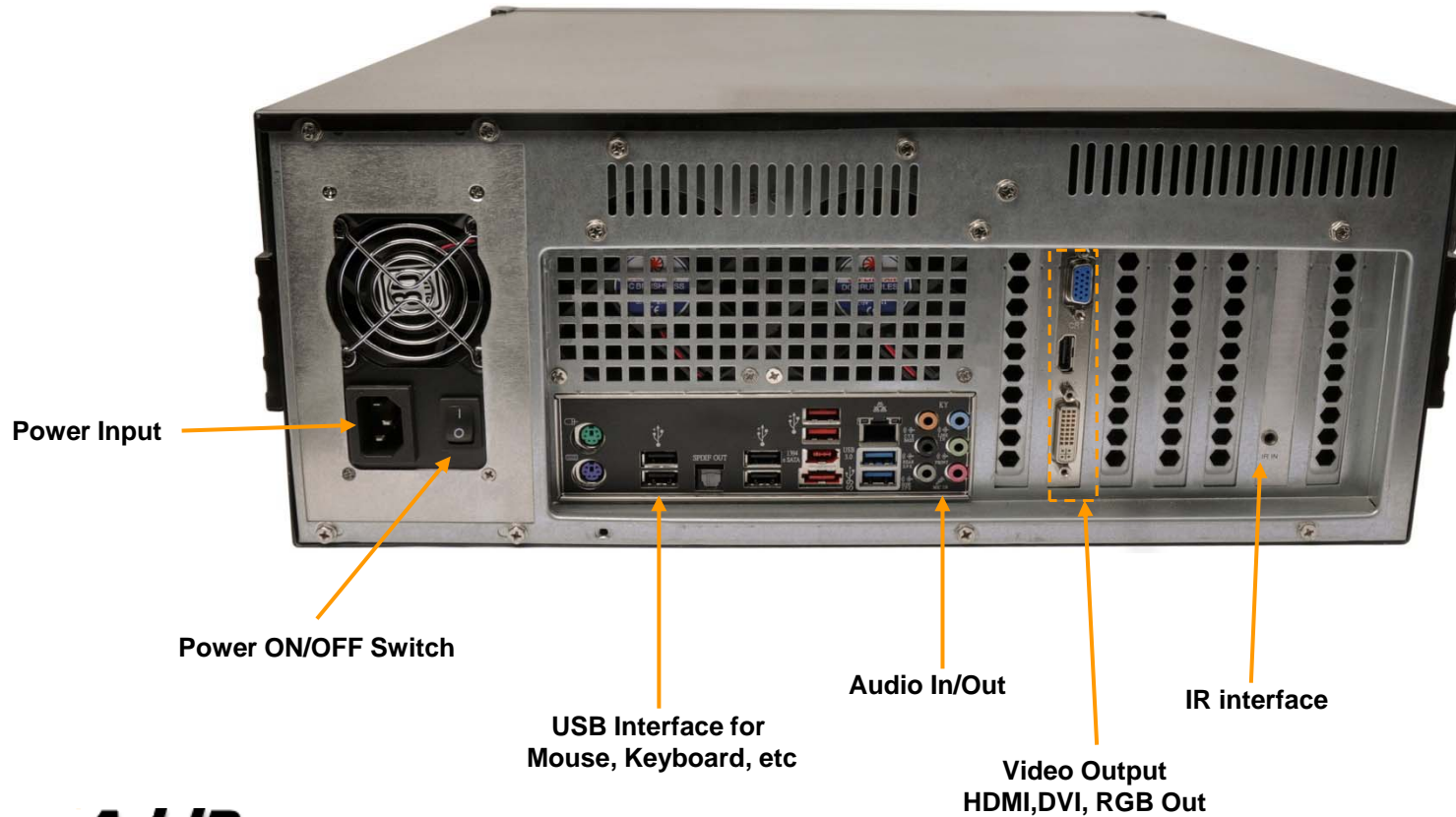
Power & HDD Access Indication LAMP

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

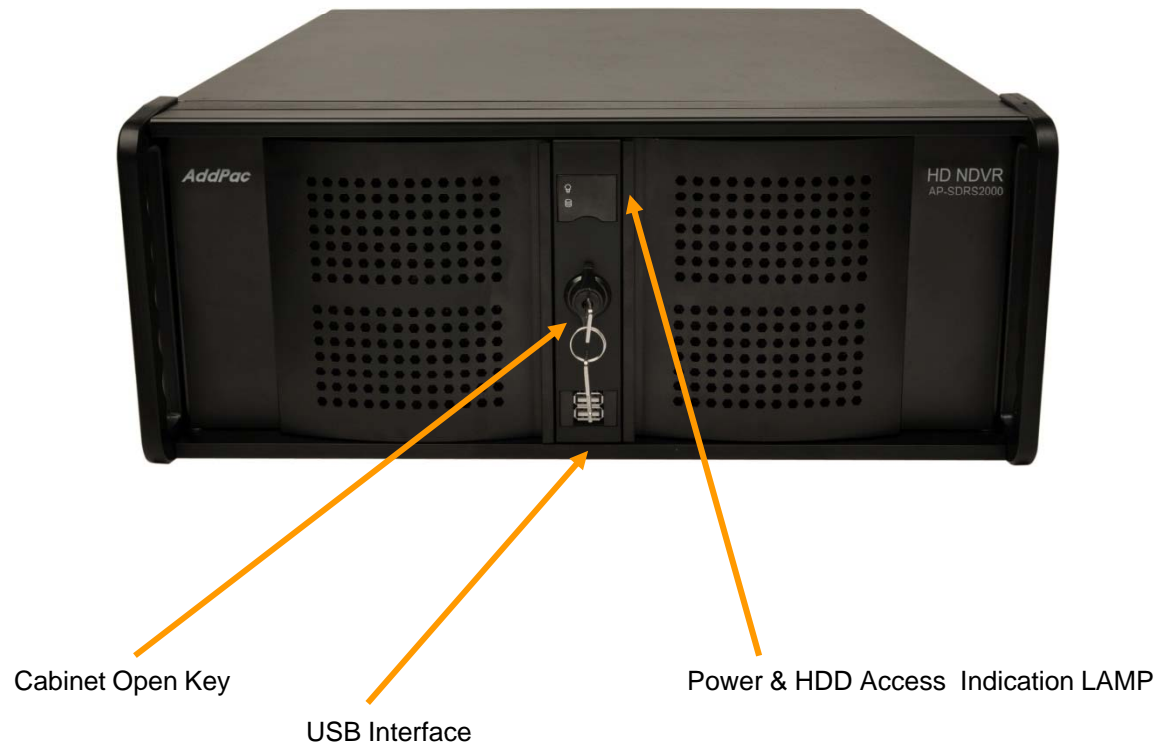
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI,RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

Hardware Specification

AP-SDRS2000 NVR Storage Server

High End
Processor

AP-SDRS2000 Front Side

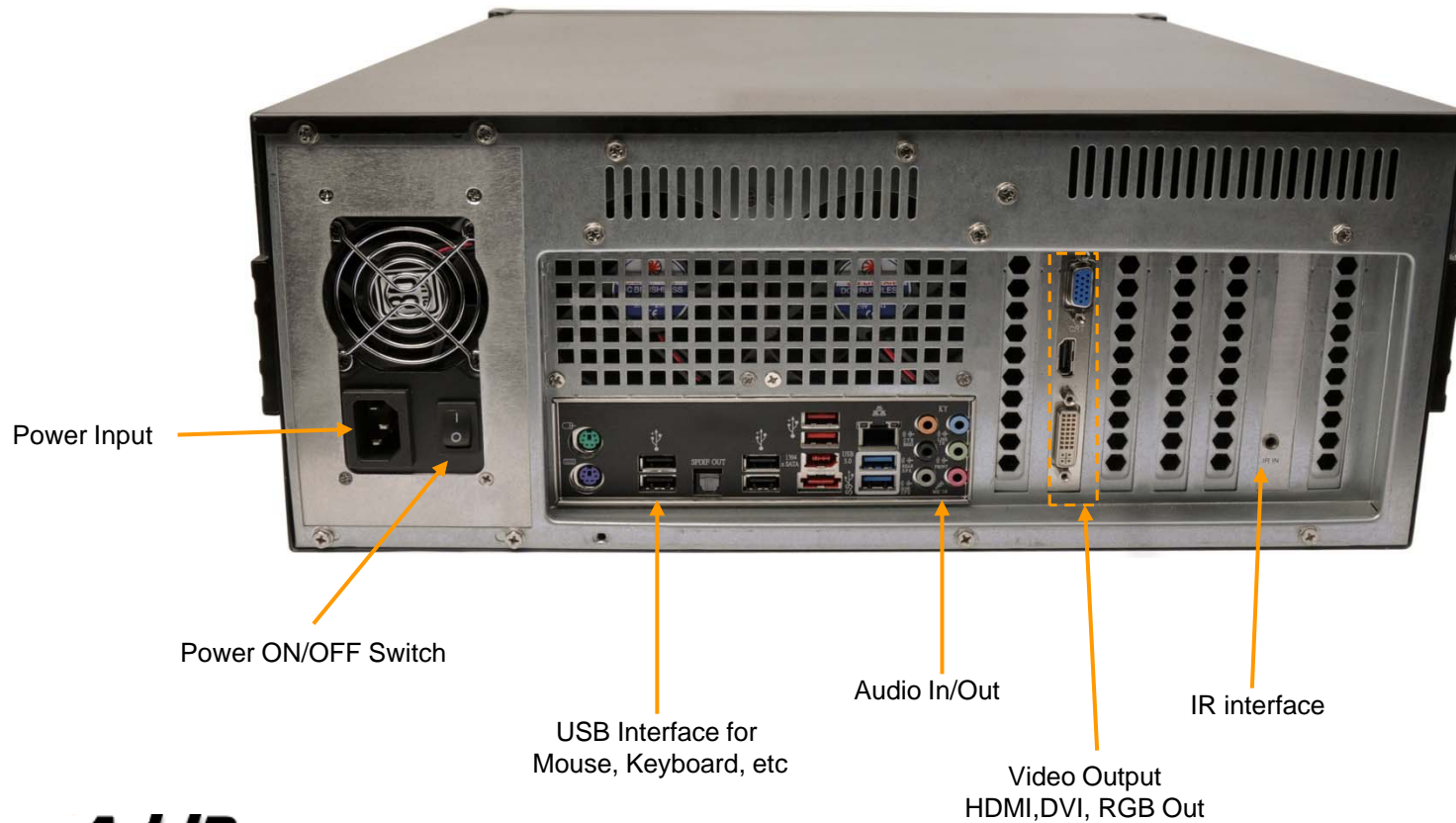


Hardware Specification

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. The left sidebar contains a tree view of the system structure. The main area is divided into several sections:

- Camera Searching:** A search bar at the top of the sidebar.
- System User configuration:** A section with a 'Server Port' field set to 8020.
- Camera List:** A table listing cameras, with '3층창문_HD' and '옥상_HD' visible.
- Session Monitoring:** A section for monitoring sessions, including 'Live', 'Play', 'Record', and 'Sequence' options.
- Login User Monitoring:** A table showing active users and their IP addresses.

User	IP
root	172.16.1.14
root	172.16.1.14
root	172.16.34.2

Bottom status bar: 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 the IP address 172.16.14.113, with the 'Record' option selected. The main area shows a 'Record History' table with three entries. A search bar at the top right contains the text 'Recording File Download'. A yellow callout box labeled 'Recording Media Searching Result' points to the table. Another yellow callout box labeled 'Excel Exporting' points to the export icon in the table's toolbar. A third yellow callout box labeled 'Recording Media Management' points to the 'Record' menu item in the navigation tree.

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

Total 3 results found.

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

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

Advanced Searching Menu

Advanced Searching Rules

Selected Searching Rule Clear

Searching Rule All Clear

Smart DVR Manager : System Monitoring

The screenshot displays the Smart DVR Manager interface for a Stream Server. The main window is titled "Smart DVR Manager - [Stream Server]" and includes a menu bar with "File", "Tool", "Configuration", and "Help". The interface is divided into several sections:

- System Monitor:** This section is highlighted with a blue dashed box and contains four monitoring graphs:
 - 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:** This section is highlighted with a yellow box and shows a table of memory statistics:

Memory	Value
Total	964608 KB
Used	25300 KB

Below the table, it indicates "IP : 172.16.14.113".
- HDD Monitoring:** This section is highlighted with a blue dashed box and shows a progress bar for the HDD:

HDD: 178.48 GB (Total) / 46.82 GB (Used)

The left sidebar shows a tree view of the server structure for IP 172.16.14.113, including sections for User, Server, Camera, Relay, and Session. The status bar at the bottom shows the date and time (2010-03-12 오후 3:48:09), the server IP and port (172.16.14.113 : 8020), the software 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

Recorded File Display at Server

Recorded File Searching at Local PC using Group and Camera Tree

Recorded File Display at Local PC

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

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 also includes progress bars for file transfer and conversion, and options for file conversion and deletion.

Download Window 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...

Remote Database File List:

파일 이름	파일 크기
010031206474...	8,890 KB
010031202450...	214,637 KB
010031201065...	1,424,769 KB
010031201025...	90,190 KB
010031108373...	286,144 KB

File Transfer Progress:

980095015124/2010/03/12/20100312024507.pma downloading.. (2/2)

- 17% progress bar
- 20% progress bar

받은 크기 : 38,438,428 / 219,787,909 Bytes
전체 크기 : 47,541,688 / 228,891,169 Bytes Transfer Time : 00:00:03

File Conversion Progress:

파일 변환 (*.PMA to *.AVI)

Converting.. D:\work\sdv\sdmm\sdmm\bin\Debug\record\980095015124\2010\03\12\20100312064746.p
68% progress bar
Converting Time : 00:00:03

다운로드 후 파일 삭제

Buttons: 시작, 취소, 닫기

System tray: 2010-03-12 오후 5:22:47, version 1.0.3723, 172.16.14.113 : 8020, root, Scheduler waiting

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 software interface. The main window shows a list of recorded files with columns for camera name, IP address, group, description, recording time, playback time, file name, and file size. 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 busy street scene with cars and buildings, with Korean text overlaid: "경인선 도화-3 (전환중)".

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

스마트 DVR 미디어 관리 프로그램

파일 관리 도움말

AddPac Smart DVR Series

Smart DVR Manager AddPac Technology

서버 Remote Database (172.16.14.113:6) 3층창문_HD (5) 옥상_HD (3) 옥상_HD (3)

카메라 이름 옥상_HD 옥상_HD 옥상_HD

Records: 3

Local Database 3층창문_HD (2) 옥상_HD (3)

카메라 이름

Records: 0 Search Constraints :

2010-03-12 오후 5:26:28 version 1.0.3723 172.16.14.113 : 8020 root Scheduler waiting

녹화파일 속성

속성 이름	값
Record ID	3
Comment	No Comment
Camera GUID	745430054867
Camera Name	옥상_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)

Recorded File Attribute Display

진행시간	파일 이름	파일 크기
14:4...	00:00:39 2010031105433...	39,052 KB
14:2...	00:00:10 2010031105252...	10,298 KB
14:0...	00:00:00 2010031105015...	436 Byte

진행시간	파일 이름	파일 크기
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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!

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