

AP-VAC100

IP Video Door Phone

High Performance IP Video Door Phone Solution



IP Camera Service for Video
Monitoring

AddPac

AddPac Technology

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)

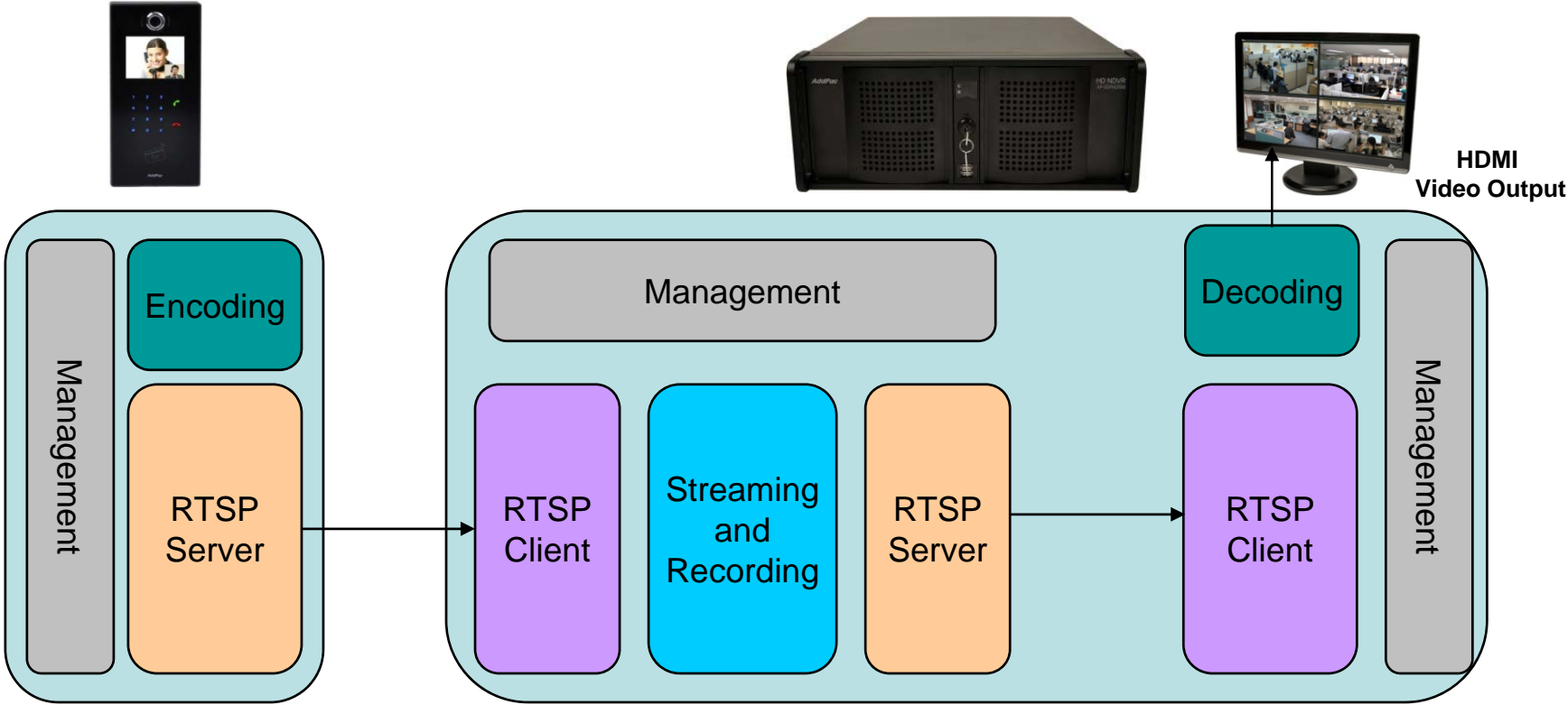
Video Monitoring Service Protocol Diagram

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

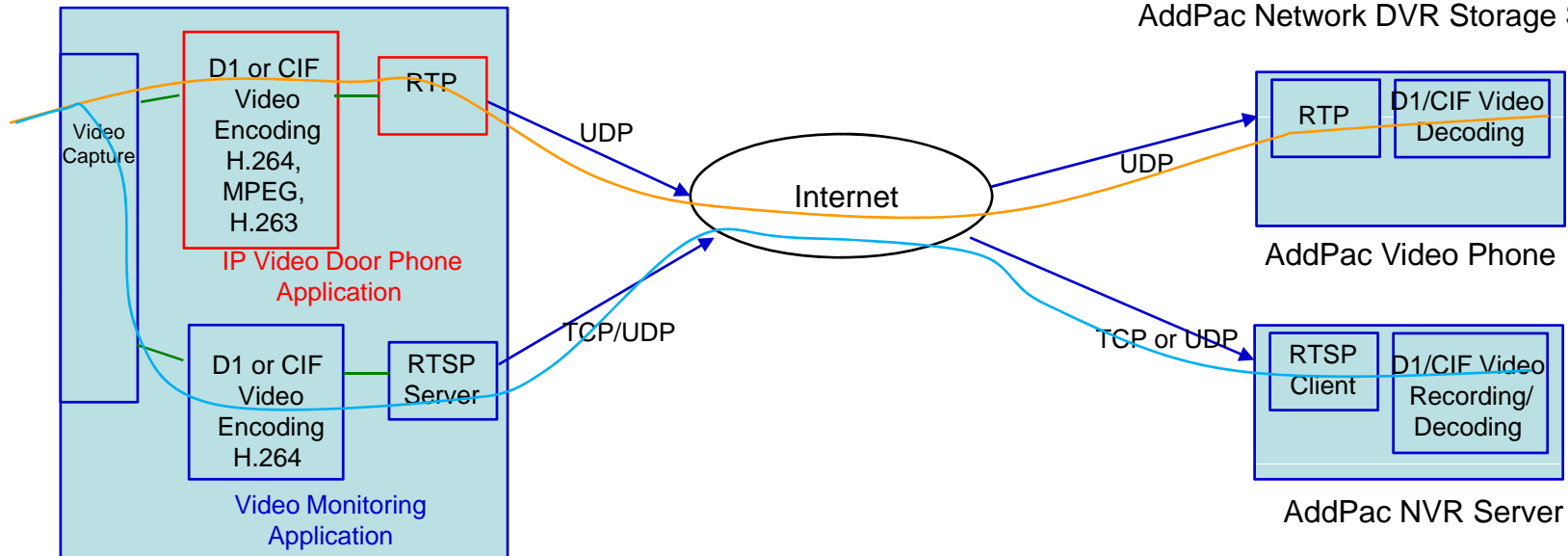


AddPac Video Phone



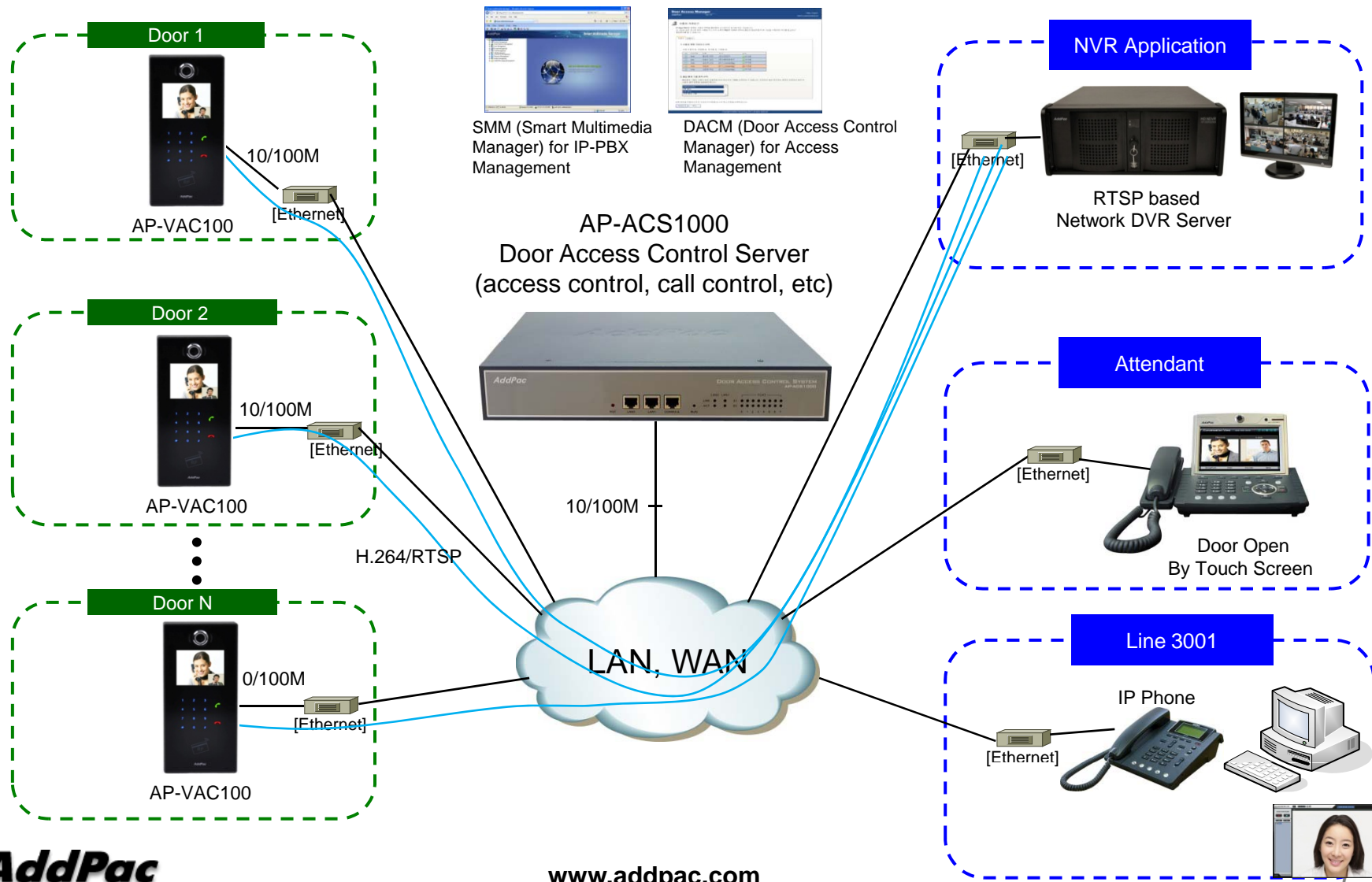
AddPac Network DVR Storage Server

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

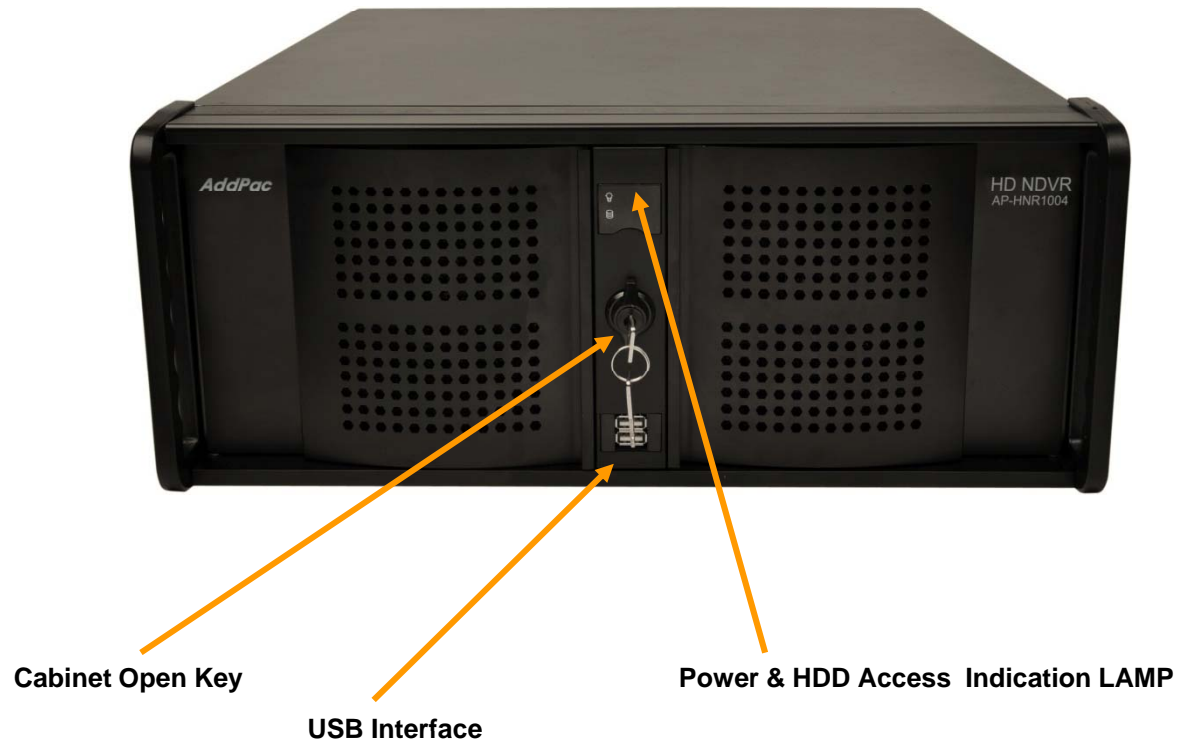


Hardware Specification

AP-HNR1004 Standalone Network DVR

High End Processor

AP-HNR1004 Front Side

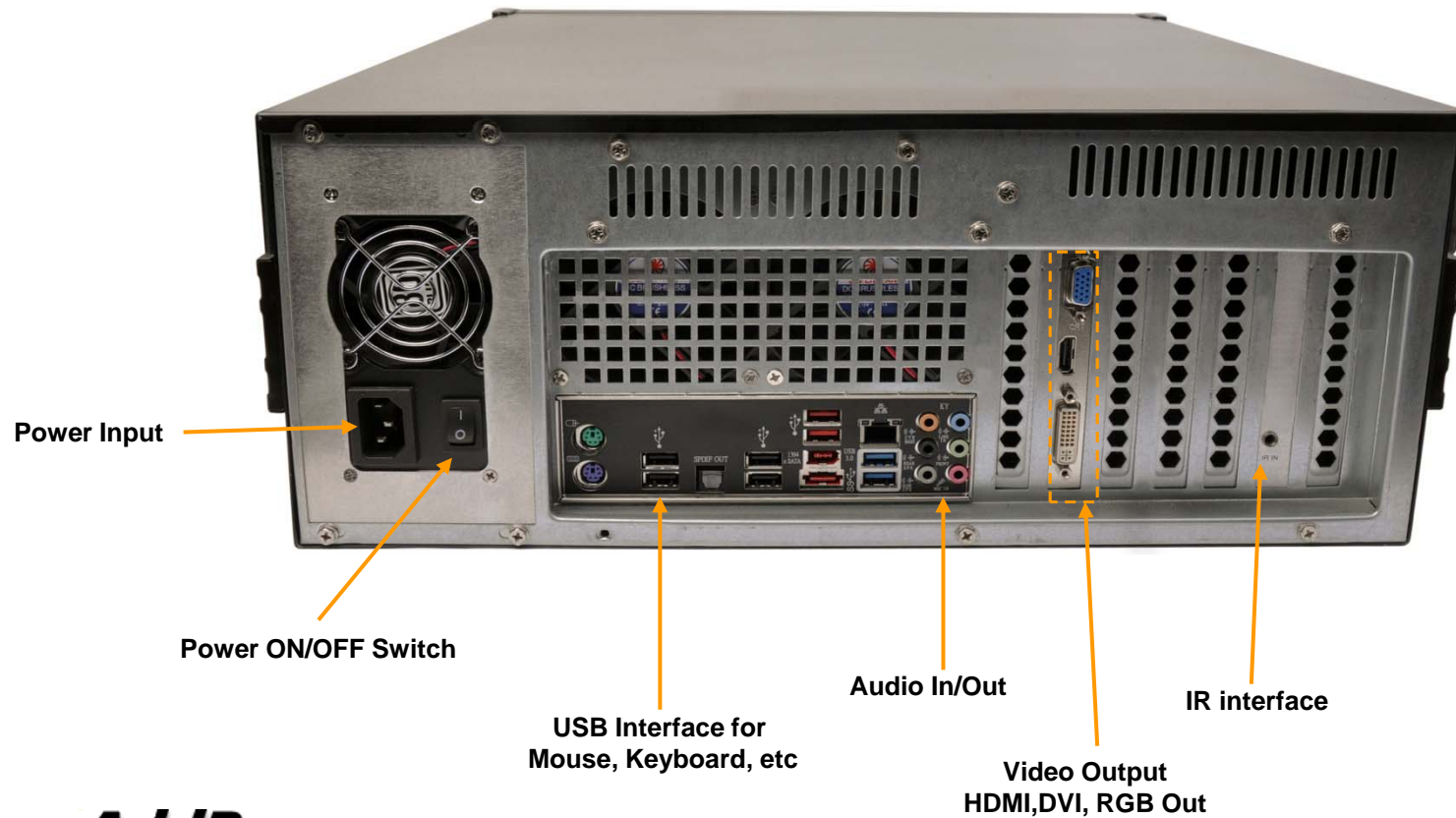


Hardware Specification

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

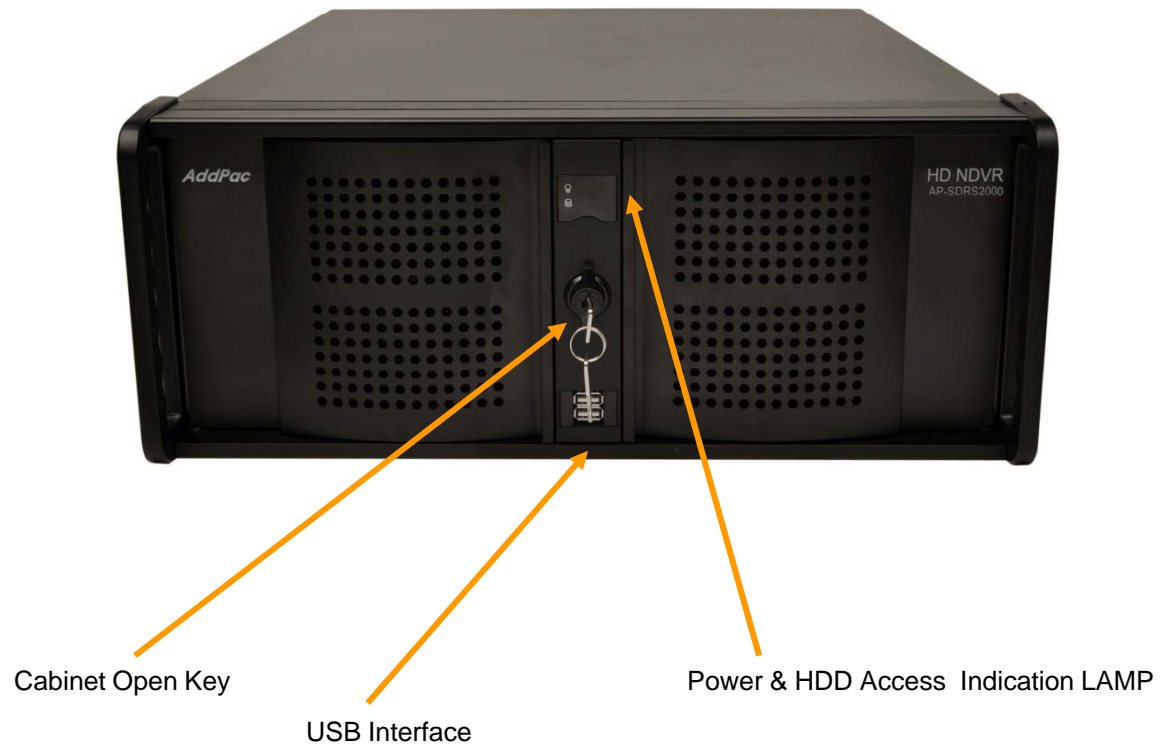
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI, RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

Hardware Specification

AP-SDRS2000 NVR Storage Server

High End
Processor

AP-SDRS2000 Front Side

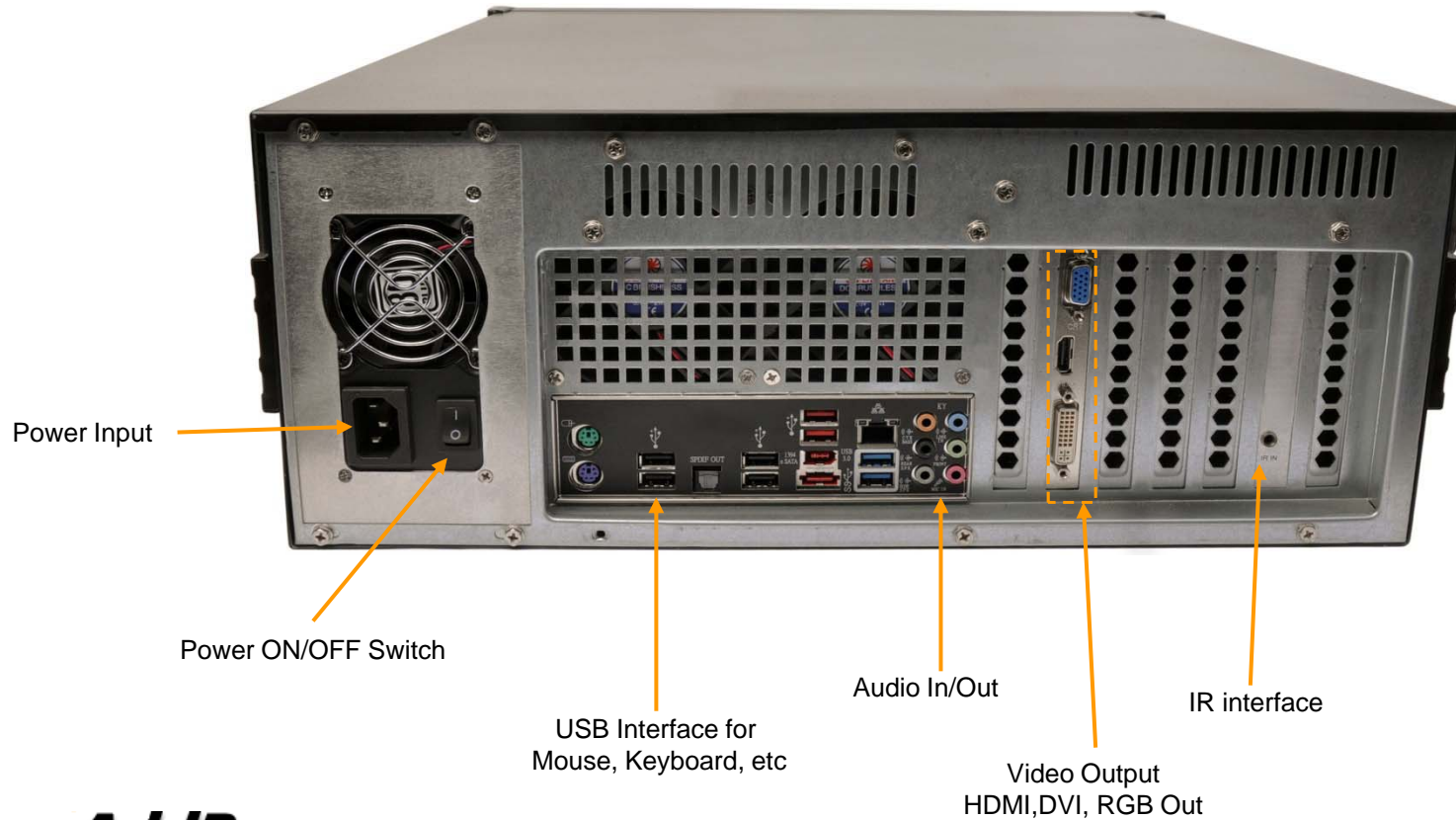


Hardware Specification

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 tabs for General, Configuration, Schedule, and Holiday. It includes 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 managers.

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 IP address 172.16.14.113, with the 'Record' option selected. The main area shows a 'Record History' table with three entries. A yellow box labeled 'Recording File Download' points to a download icon in the toolbar. Another yellow box labeled 'Excel Exporting' points to an Excel icon. A third yellow box labeled 'Recording Media Searching Result' points to the table. A fourth yellow box labeled 'Recording Media Management' points to the 'Record' menu item in the navigation tree. The status bar at the bottom shows the date and time as 2010-03-12 오후 3:44:48, IP 172.16.14.113 : 8020, Version 2.1.3723, and user 'root'.

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 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 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 "Memory" section, which includes a table of memory statistics and an IP address.
- HDD Monitoring:** A yellow callout box points to the "HDD" section, which shows a bar chart of disk usage.

The "Memory" section contains the following data:

Memory	Value
Total	964608 KB
Used	25300 KB

The IP address is 172.16.14.113.

The "HDD" section shows:

HDD	Total	Used
HDD	178.48 GB	46.82 GB

The interface also features a left-hand navigation tree for the IP address 172.16.14.113, listing various system components like 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

카메라 이름	IP 주소	그룹	설명	녹화 시간	진행시간	파일 이름	파일 크기
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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' interface. 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 Dialog - File List:

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...

Download Dialog - File Transfer Progress:

파일 이름	파일 크기
2010031206474...	8,890 KB
2010031202450...	214,637 KB
2010031201065...	1,424,769 KB
2010031201025...	90,190 KB
2010031108373...	286,144 KB

Download Dialog - File Conversion Progress:

파일 이름	파일 크기
2010031206474...	8,890 KB
2010031202450...	214,637 KB
2010031201065...	1,424,769 KB
2010031201025...	90,190 KB
2010031108373...	286,144 KB

Callout 1: Recorded File List for File Backup : File Name, Recording Duration Time, File Size, File Backup Status

Callout 2: Display the File Transfer Progress Status for Backup (Server to Local PC)

Callout 3: 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 street scene with cars and buildings, with Korean text "경인선 도화-3 (전환중)" overlaid. The VLC interface includes playback controls and a progress bar.

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 with a 'Record File Attribute' dialog box open. The dialog lists the following attributes:

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', '파일 이름', and '파일 크기'. A yellow callout box labeled 'Recorded File Attribute Display' points to the dialog box.

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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