

AP-VAC200

IP Video Door Phone

Fingerprint Recognition 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-VAC200 Fingerprint Recognition 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
- Fingerprint Recognition Support
- 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)

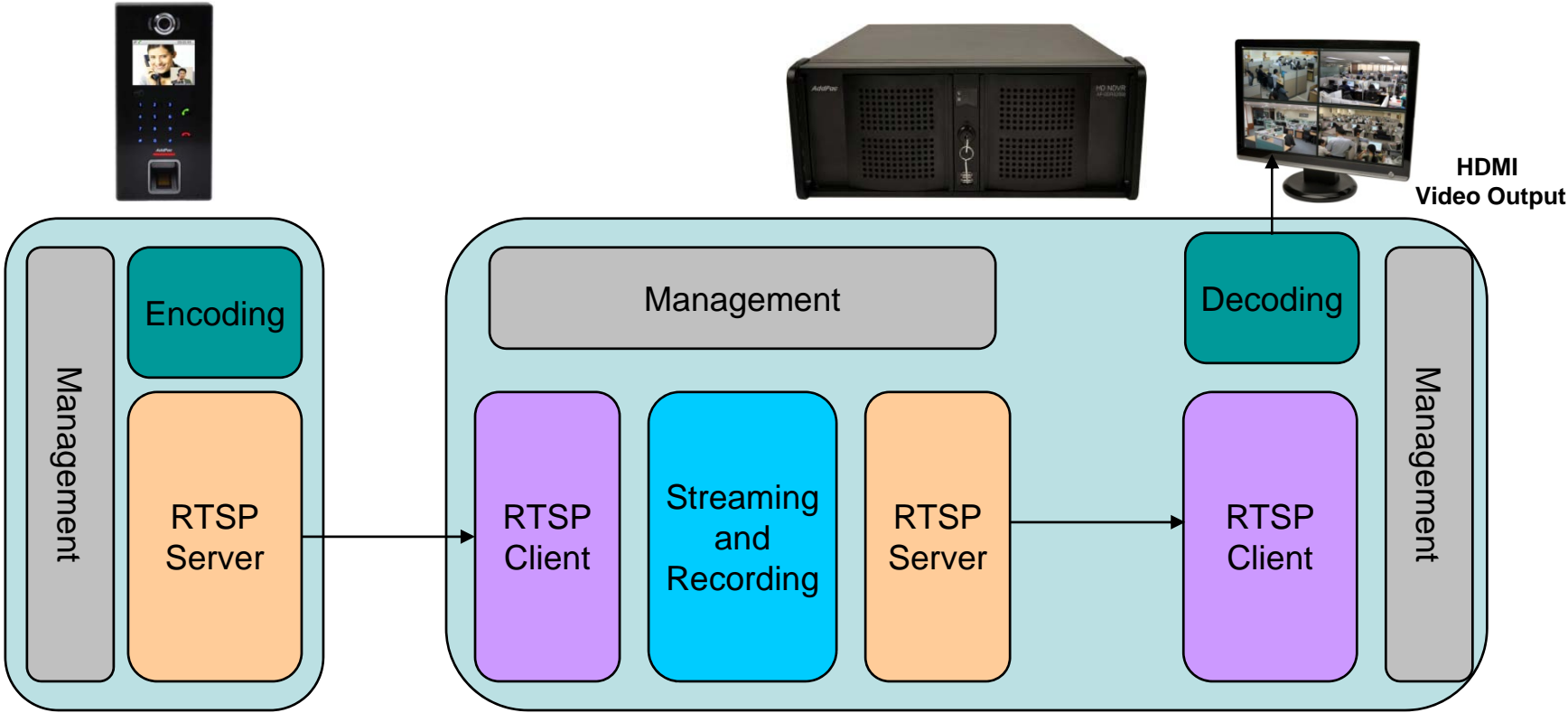
Video Monitoring Service Protocol Diagram

AP-VAC200 IP Video Door Phone

Small Scale Network DVR Solution (All in One)

AP-VAC200 IP Camera Service

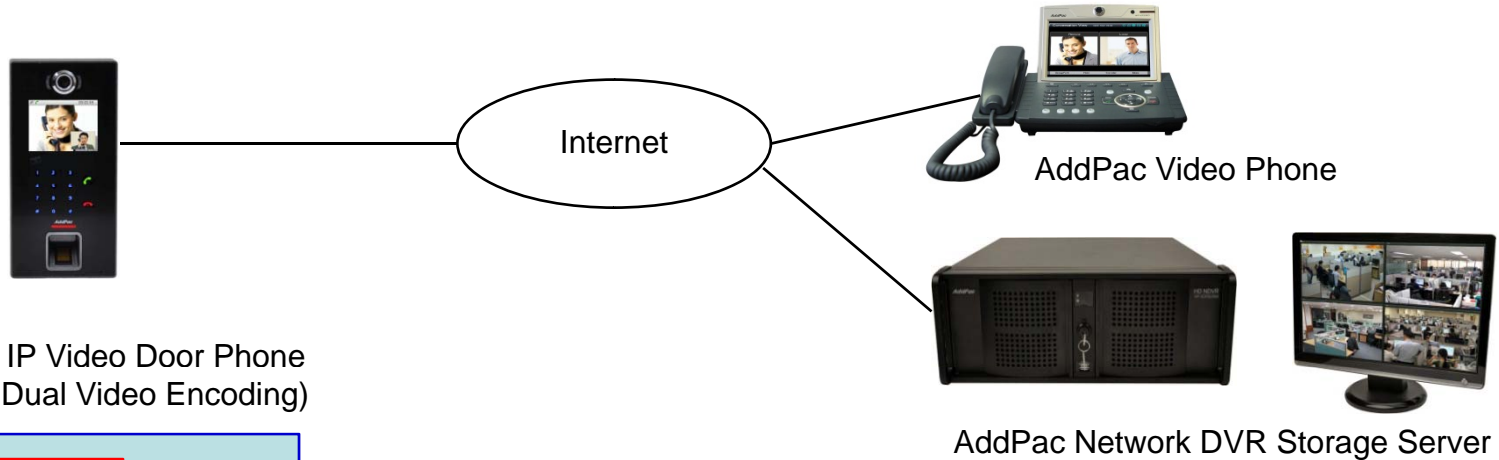
AP-HNR1004 Network DVR Storage Server



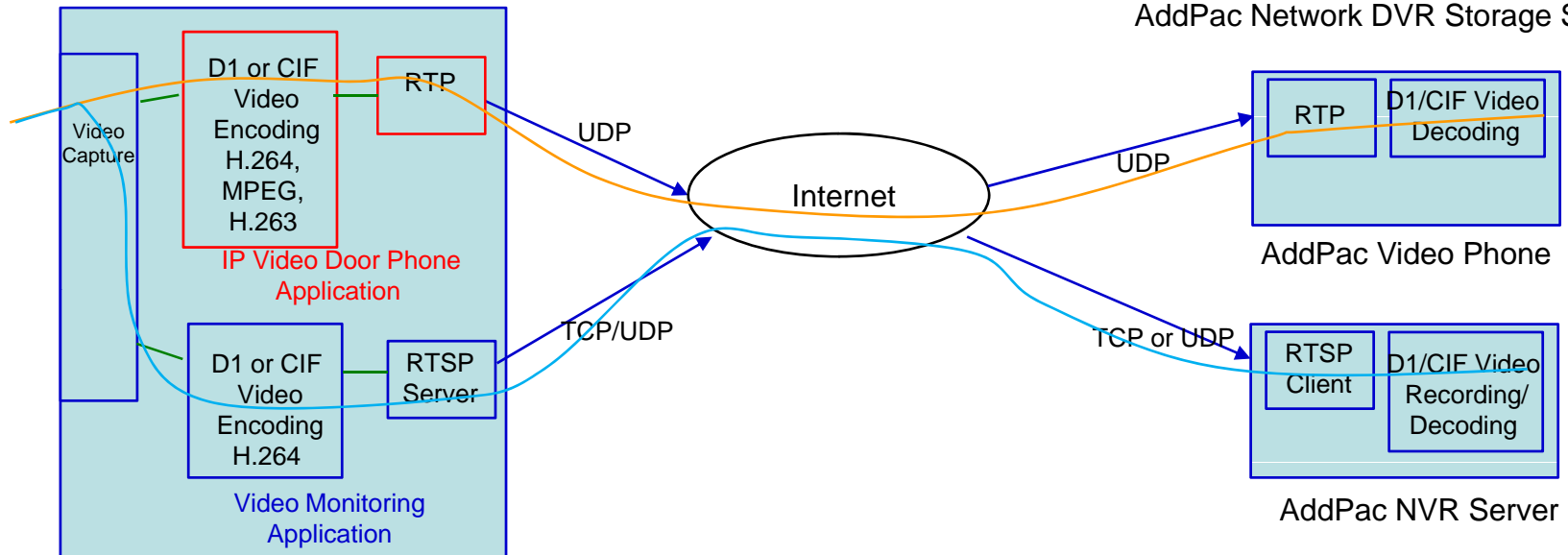
Concurrent Dual Video Encoding Service

AP-VAC200 IP Video Door Phone

AddPac IP Video Door Phone

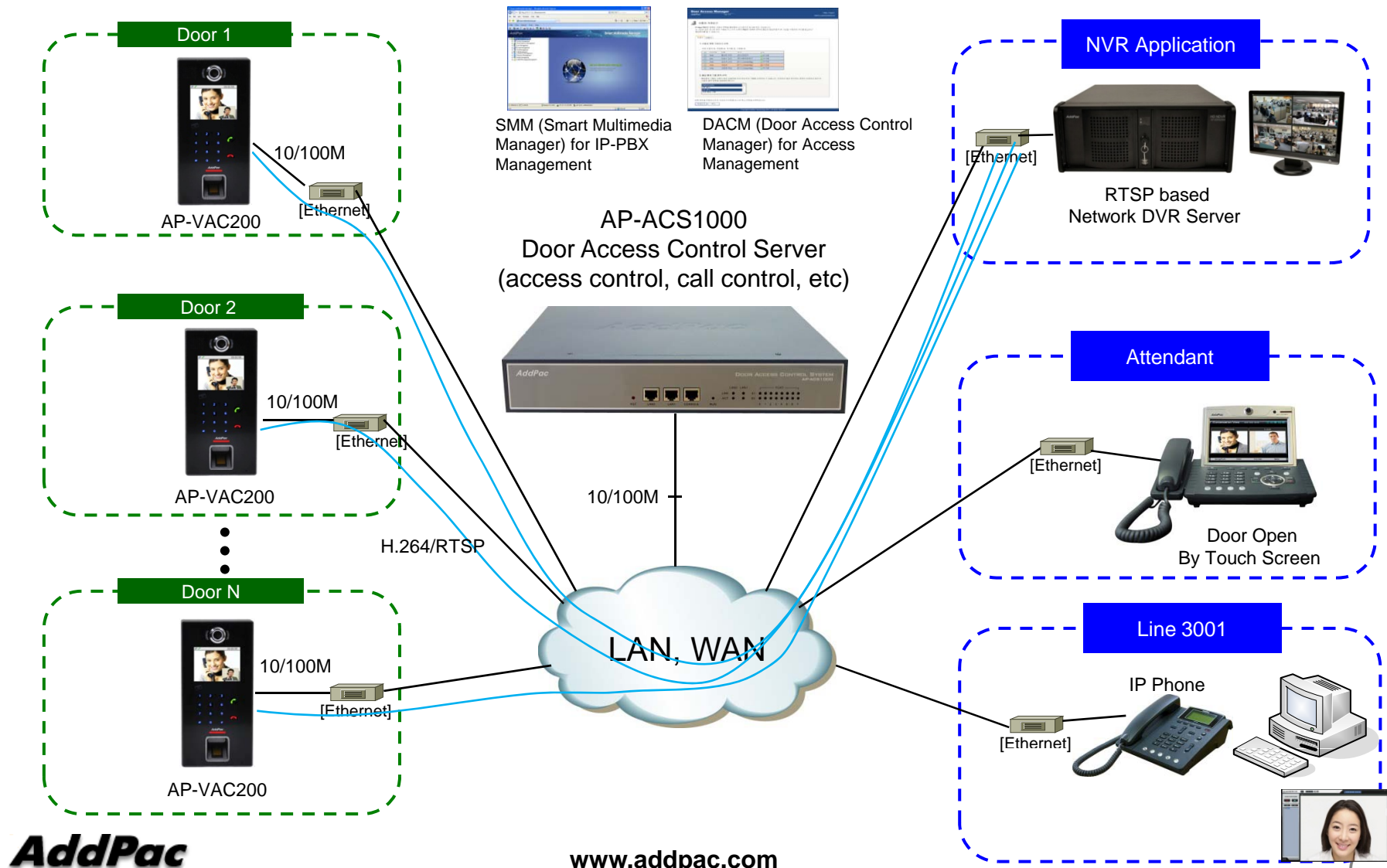


AP-VAC200 IP Video Door Phone
(Concurrent Dual Video Encoding)



IP Video Door Phone App. + IP Camera App.

AP-VAC200 IP Video Door Phone





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

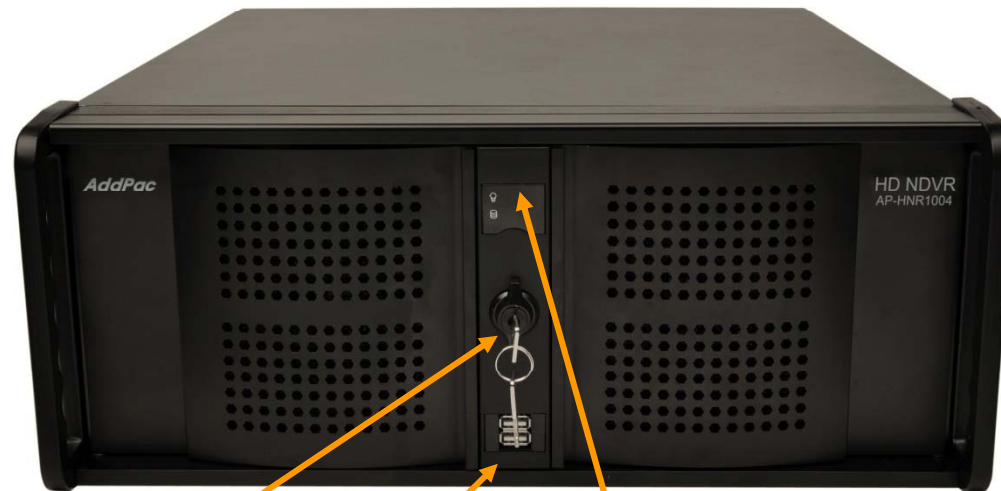


Hardware Specification

AP-HNR1004 Standalone Network DVR

High End Processor

AP-HNR1004 Front Side



Cabinet Open Key

USB Interface

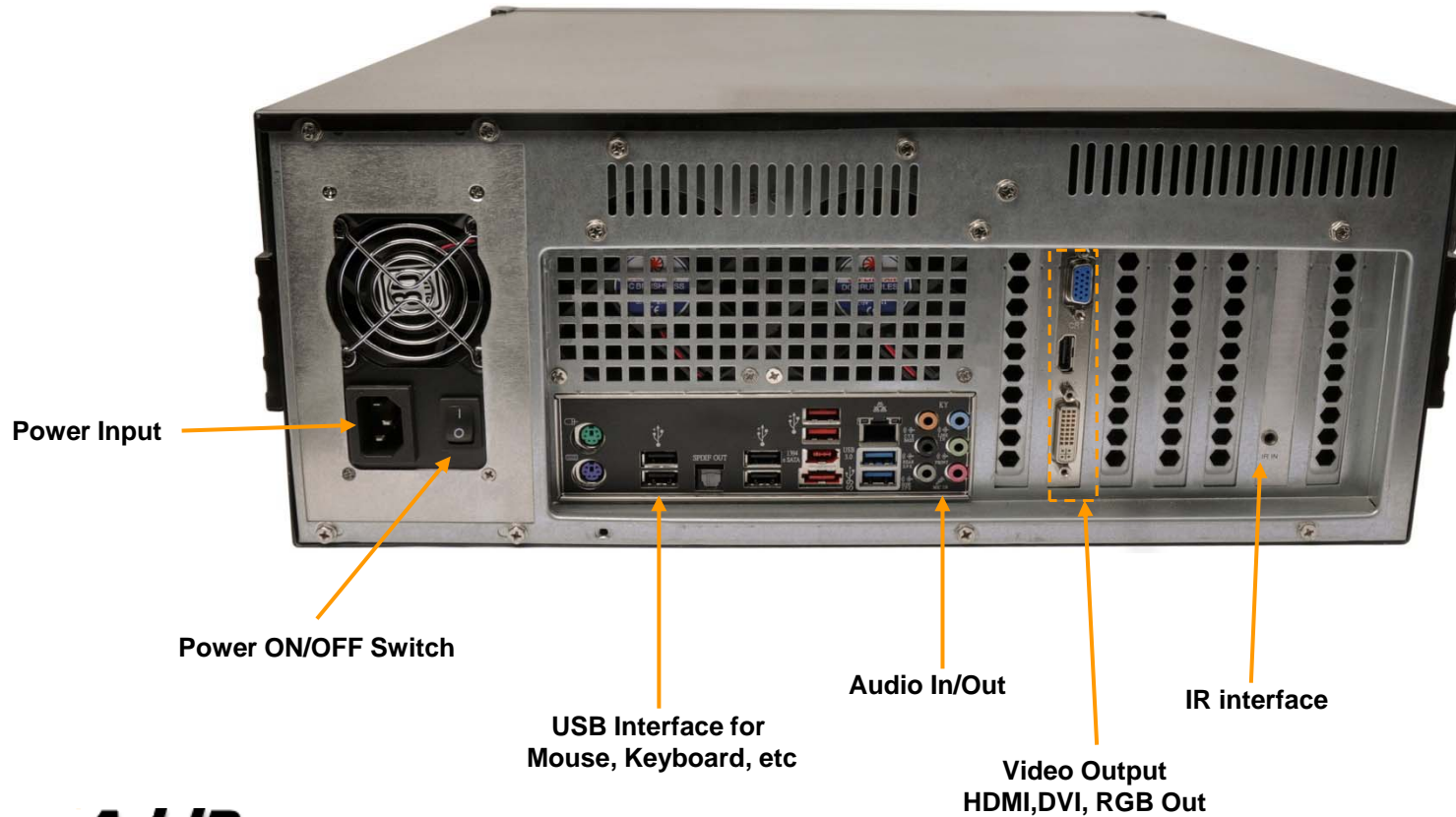
Power & HDD Access Indication LAMP

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

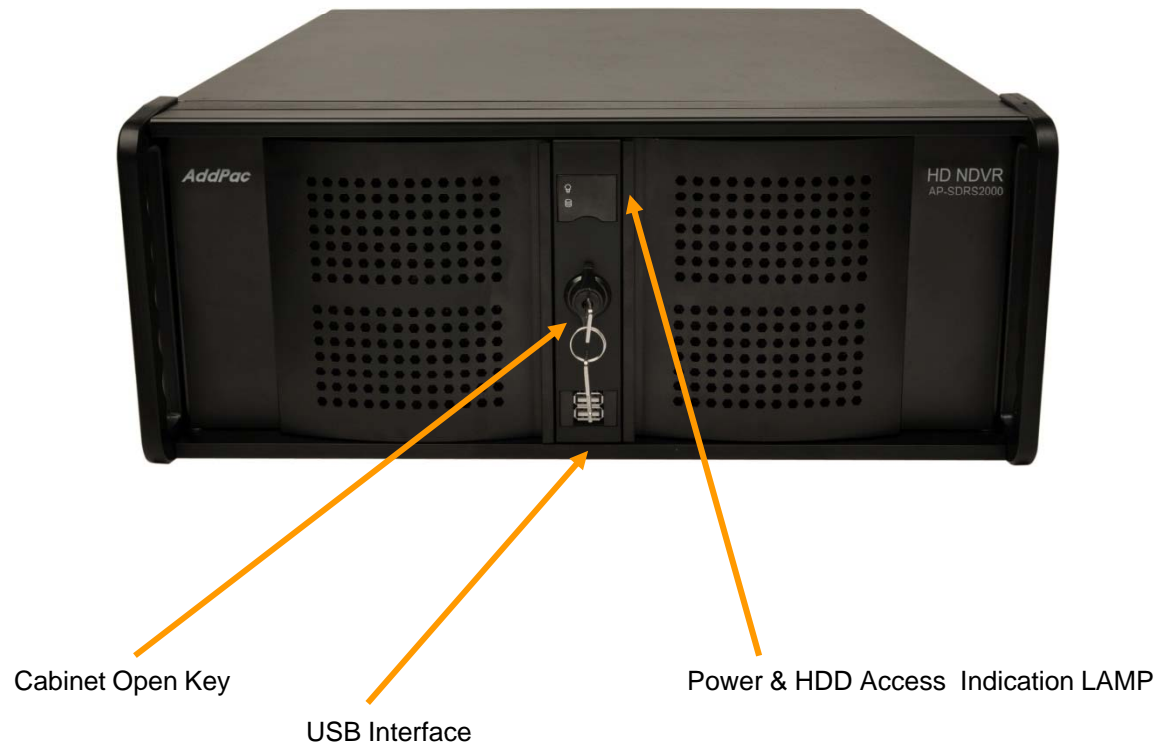
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI,RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

Hardware Specification

AP-SDRS2000 NVR Storage Server

High End
Processor

AP-SDRS2000 Front Side

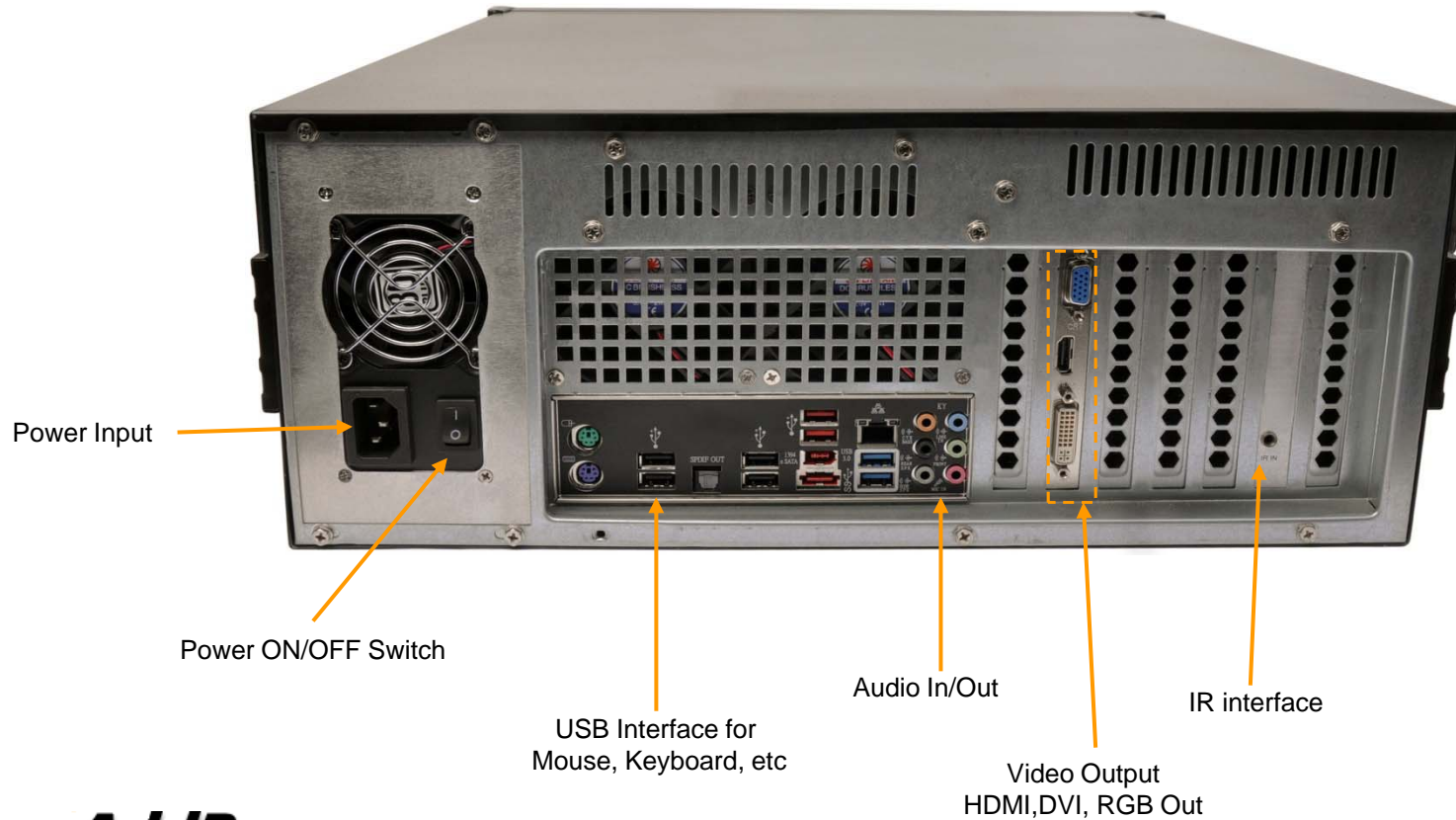


Hardware Specification

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 and callouts:

- Camera Searching:** A search bar at the top of the left sidebar.
- System User configuration:** A text input field for 'Server Port' with the value '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 titled 'Manager List' showing user logins.

| 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 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 in the toolbar. A third yellow box labeled 'Recording Media Searching Result' points to the table of search results. A fourth yellow 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

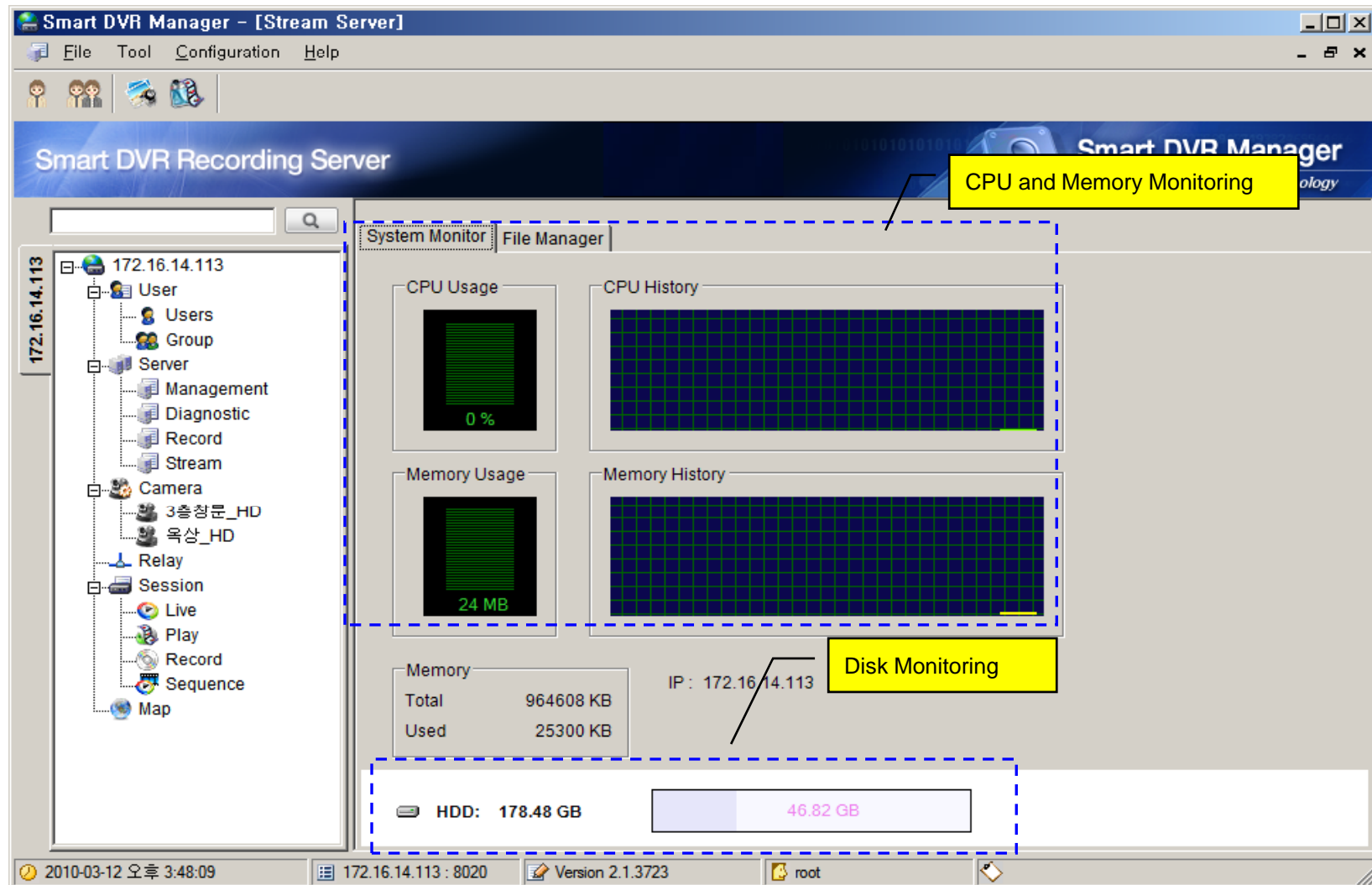
Advanced Searching Menu

Advanced Searching Rules

Selected Searching Rule Clear

Searching Rule All Clear

Smart DVR Manager : System Monitoring



The screenshot displays the 'Smart DVR Manager - [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 disk monitoring section, which includes:
 - Memory Summary:** A table showing Total (964608 KB) and Used (253000 KB) memory.
 - HDD:** A progress bar showing 178.48 GB total capacity and 46.82 GB used.
- File Manager:** A tree view on the left side of the interface showing the directory structure for IP 172.16.14.113, including folders for User, Server, Camera, and Session.

At the bottom of the window, the status bar displays 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

| 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 | | | | | | | | | | | | | | | | | | | | | | | | |

User define Special Day

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

Set Special Day using calendar

2010-03-12 오후 3:54:03 | 172.16.14.113 : 8020 | Version 2.1.3723 | root | Viewer : 0 Manager : 3



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. 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 |
|--------------------|--------------|
| 20100312064746.pma | 8,890 KB |
| 20100312024507.pma | 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 |
|--------------------|--------------|
| 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 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

Local Database 3층창문_HD (2) 옥상_HD (3)

카메라 이름

Records: 3

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 |
|------|-------|-------|
|------|-------|-------|

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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