## AP-HIC200 HD IP Camera

High-performance Network DVR Solution



#### **Preliminary Product Overview**

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



AddPac Technology

Sales and Marketing

#### Contents

- Product Overview
- Product Highlight
- Hardware Specification
- Software Service
- NVR Server Interworking
- RTSP Message Flow Diagram
- IP Camera Interworking Diagram
- Network DVR Components
- Application Service
- Ordering Information







#### **Product Overview**

#### AP-HIC200 HD IP Camera

- High-End Programmable DSP Hardware Architecture
- High-Performance HD IP Camera Features
- High Quality H.264 High Profile Video Encoder Support
- Speed PAN/TILT Camera Service Features
- Optical 18 x Zoom Camera
- Up to 1280 x 720 Resolution
- RTSP Streaming Service Protocol Support
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- Firmware Upgradeable Architecture
- Network Interface
  - One(1) 10/100M Fast Ethernet Interface
- MIC In Interface for Audio Recording
- Audio Out Interface for Broadcasting, Announcement
- CVBS Interface for External Video Monitoring



#### **Product Highlights**

AP-HIC200 HD IP Camera

Next Generation HD IP Camera

**Embedded System for Stability** 

Up to HD 720P(1280 x 720) Video Resolution

Firmware Upgradeable Architecture

APOS<sup>™</sup>Technology Multimedia Network Protocol

MIC In, Audio Out Interface for Audio Recording ,Broadcasting Service

High-End Programmable DSP Hardware Architecture

High Quality H.264 Video Encoder Features

Speed PAN/TILT Dome Camera Service Features

**Optical 18 x Zoom Video Camera** 

One(1) 10/100Mbps Fast Ethernet Interface, IO Interface ( 2 Alarm, 1 Relay)

RTSP Streaming
Protocol Support for NVR Service



#### AP-HIC200 HD IP Camera

- RISC + Video Processor Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100Mbps Fast Ethernet
    - One(1)-Port RS232C Port for CLI, Debug
  - Audio Interface
    - One(1) Audio 3.5mm Stereo Input Channel
    - Two(2) Audio RCA Output Channel (Left, Right)
    - Two-Way
  - CVBS Video Out Interface
  - Camera Features
    - 18x Optical Zoom, Up to 720P(1280x720) Resolution
    - 1/3Inch CCD Camera Sensor
    - 1.3 Mega Pixel
  - I/O Interface
    - 2 Alarm Input, 1 Relay
  - Speed PAN/TILT Features
    - PAN: 360 Degree Endless
    - TILT: 90+ Degree







AP-HIC200 HD IP Camera



Front Side



AP-HIC200 HD IP Camera



#### Software Service

#### AP-HIC200 HD IP Camera

- Built-in AddPac APOS Internetworking Software
  - Scalability, Functionality, and Stability Features
  - Advanced Standalone DVR Recording & Streaming Features
  - QoS Control Features
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
  - Smart DVR Manager





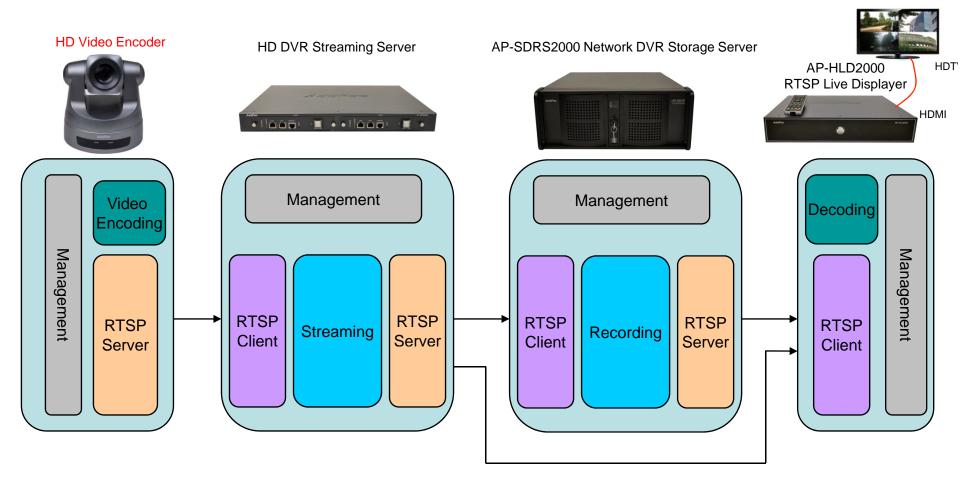




#### NVR Storage Server Protocol Block Diagram

AP-HIC200 HD IP Camera

#### Medium & Large Scale Network DVR Solution



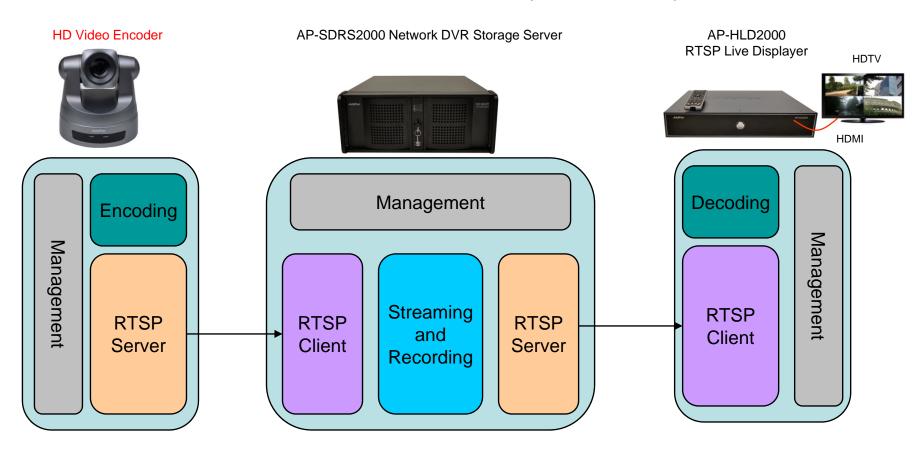


9

### NVR Storage Server Protocol Block Diagram

AP-HIC200 HD IP Camera

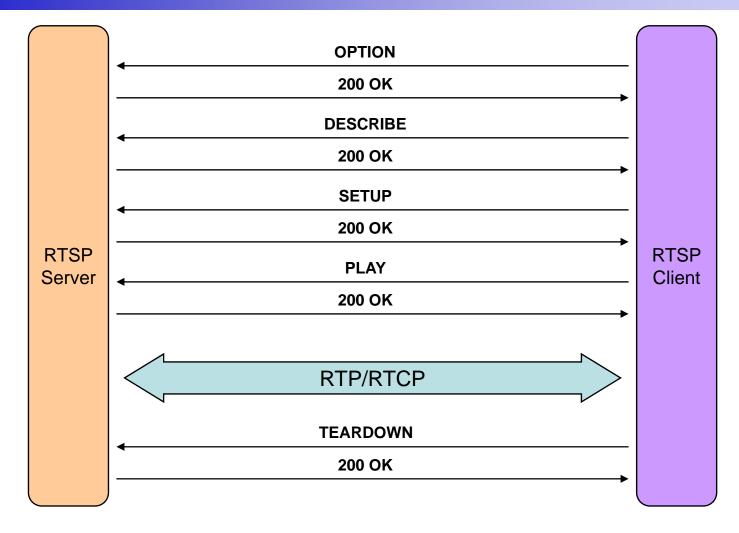
#### Small Scale Network DVR Solution (All in One)





## Basic RTSP Message Flow

AP-HIC200 HD IP Camera





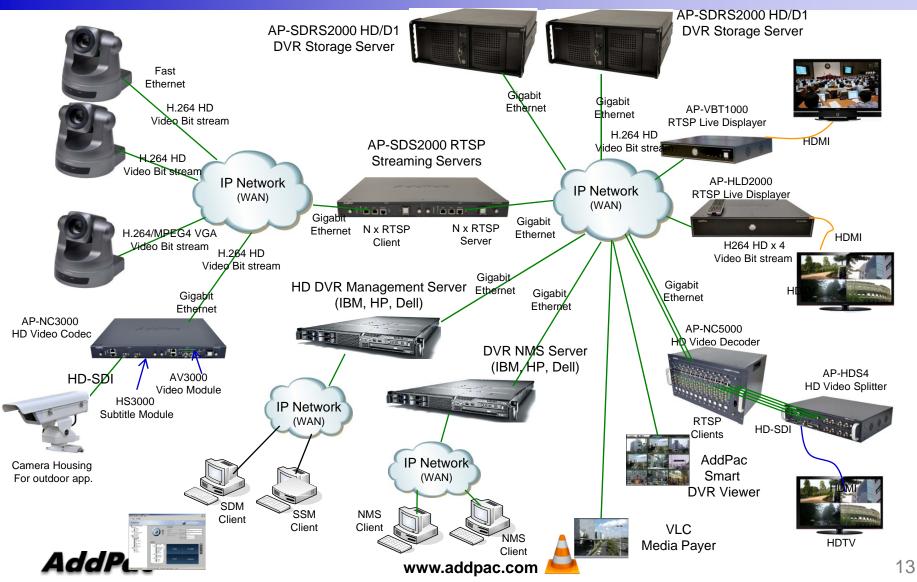
11

## IP Camera Interworking



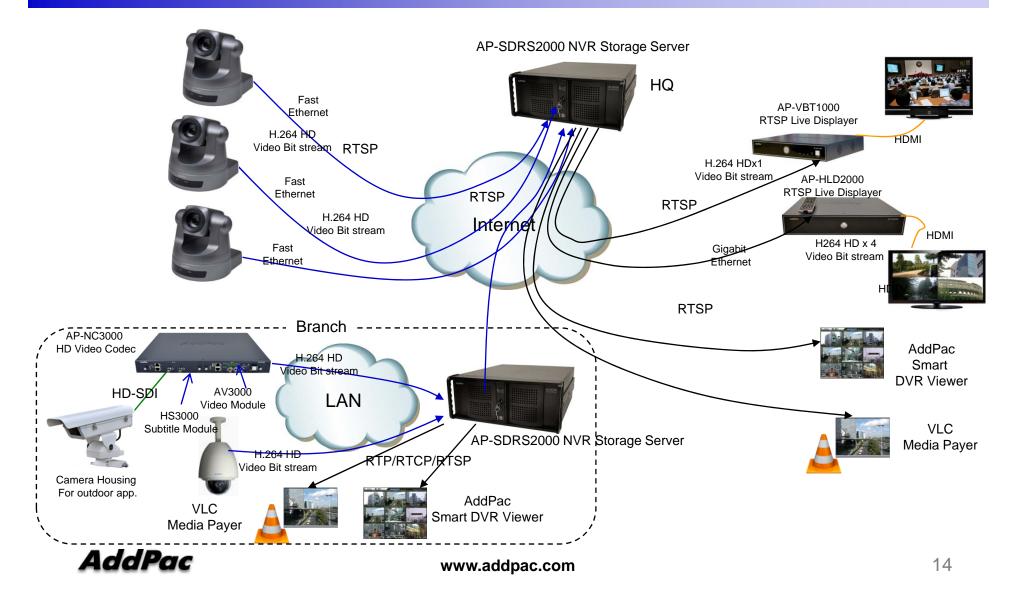
#### IP Camera Interworking Diagram (Large Scale)

AP-HIC200 HD IP Camera



#### IP Camera Interworking Diagram(Small Scale)

AP-HIC200 HD IP Camera



# HD NVR Storage Solution Component Features



## AP-SDRS2000 HD NVR Storage Server



#### **Product Overview**

#### AP-SDRS2000 HD 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)



AP-SDRS2000 HD NVR Storage Server



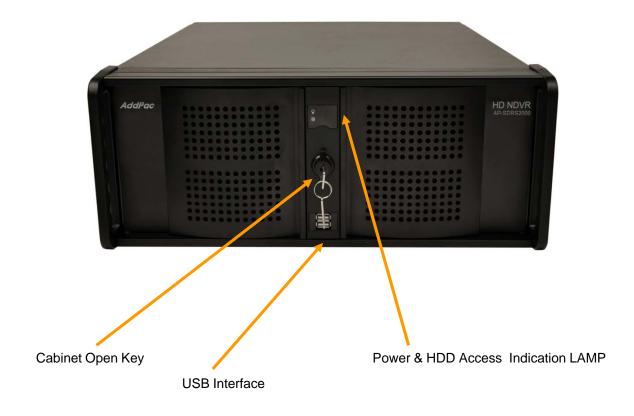
- High Performance Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100/1000Mbps Fast Ethernet
  - Video Output Interface
    - HDMI, DVI,RGB Video Output
  - USB 2.0 Interfaces for Mouse, Keyboard, etc
  - One(1) DVD Writer for Video File Backup
  - Up to Four(4) Hard Disk



AP-SDRS2000 HD NVR Storage Server



#### AP-SDRS2000 Front Side

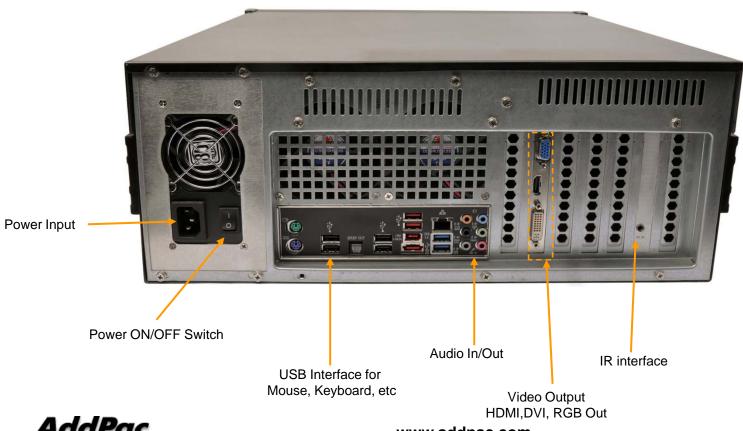




AP-SDRS2000 HD NVR Storage Server



#### AP-SDRS2000 Back Side





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#### 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

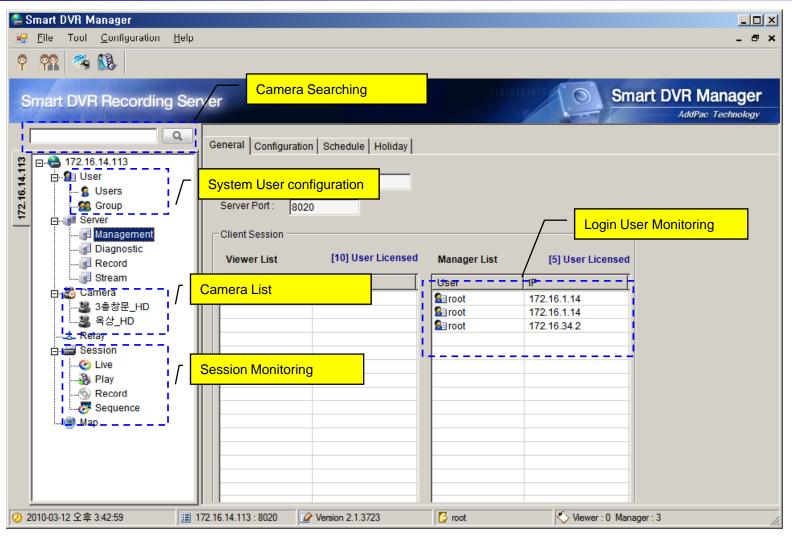
- Recording Start/Stop
- Recording Media File Searching and Maintenance
- File Download and Excel Exporting

#### Monitoring

- System Resource Monitoring (CPU, Memory, HDD and etc)
- Live Session Monitoring
- Media File Play Session Monitoring



## Smart DVR Manager: Main Layout

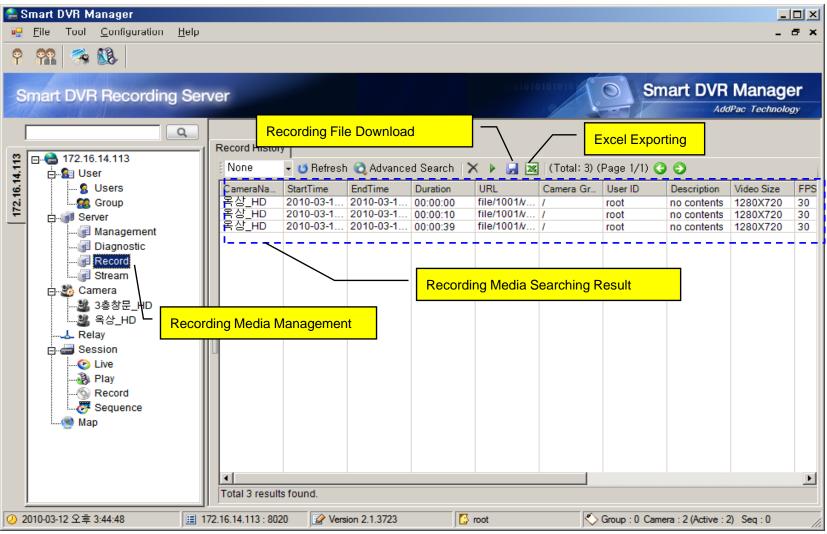


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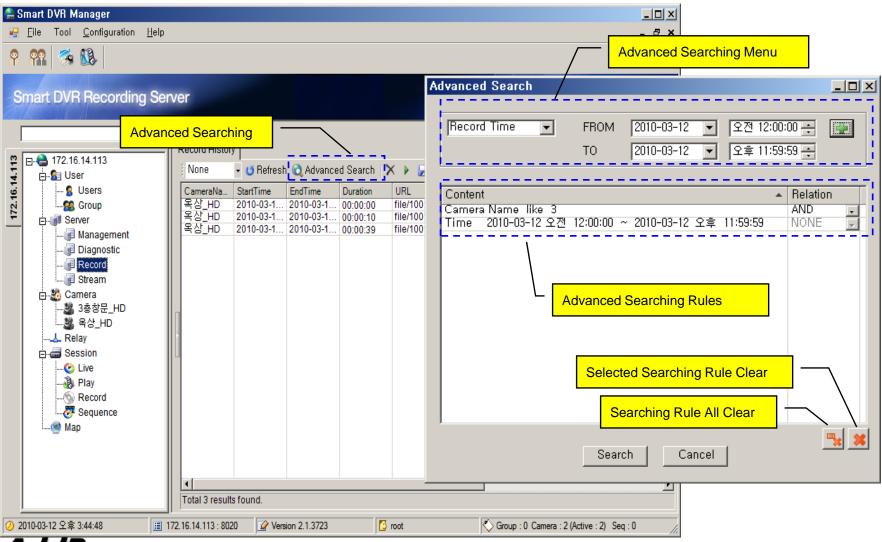
24

### Smart DVR Manager: Recording File Searching

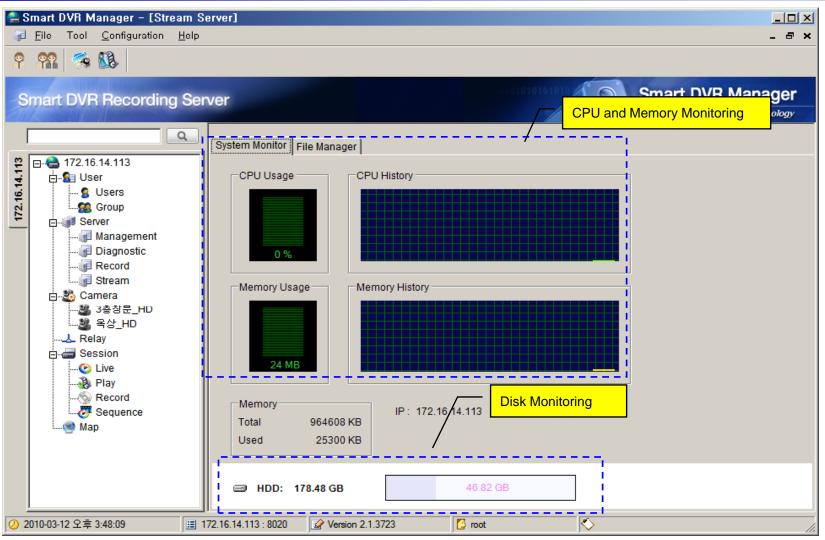




## Smart DVR Manager: Advanced Recording Searching

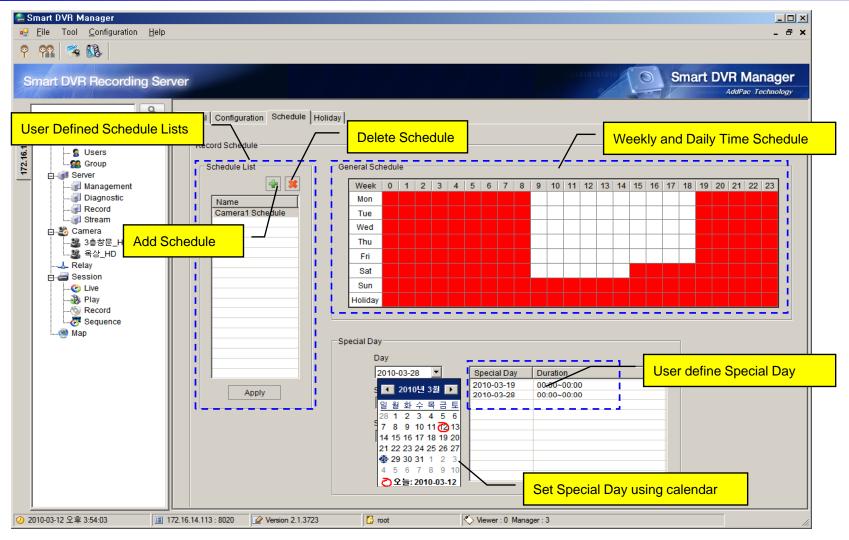


## Smart DVR Manager: System Monitoring





## Smart DVR Manager : Schedule





## Smart DVR Media Manager



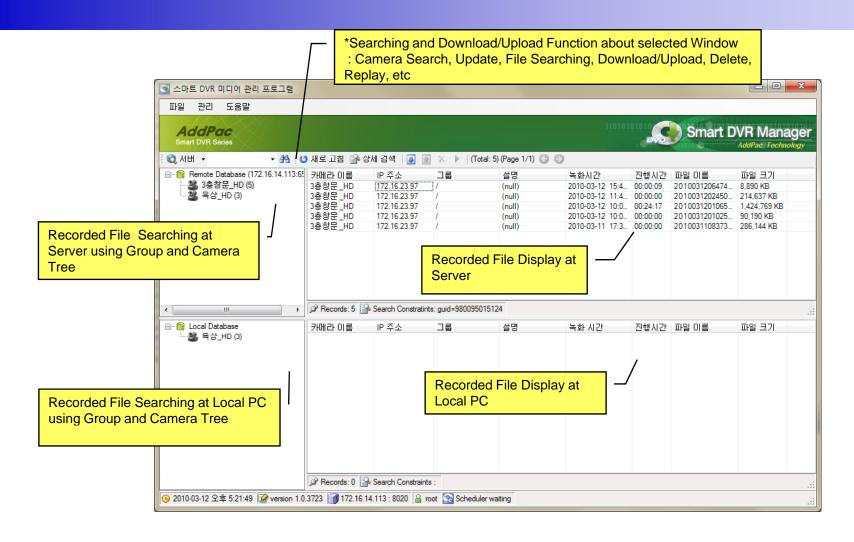
#### Smart DVR Media Manager Features

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

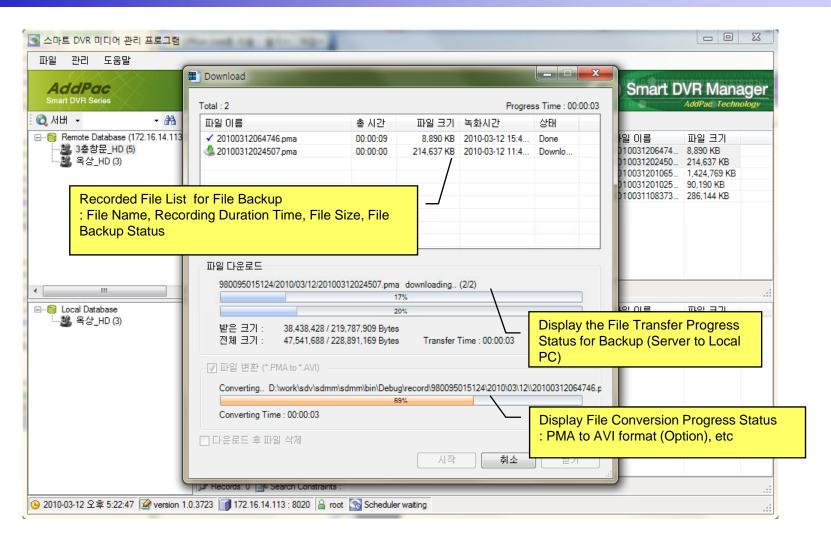


## Smart DVR Media Manager: Main Layout



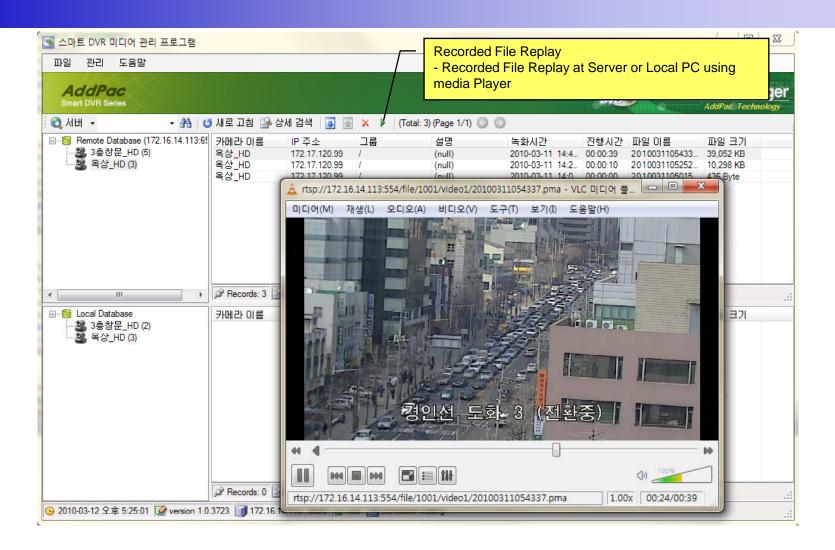


## Smart DVR Media Manager: Recorded File Upload / Download



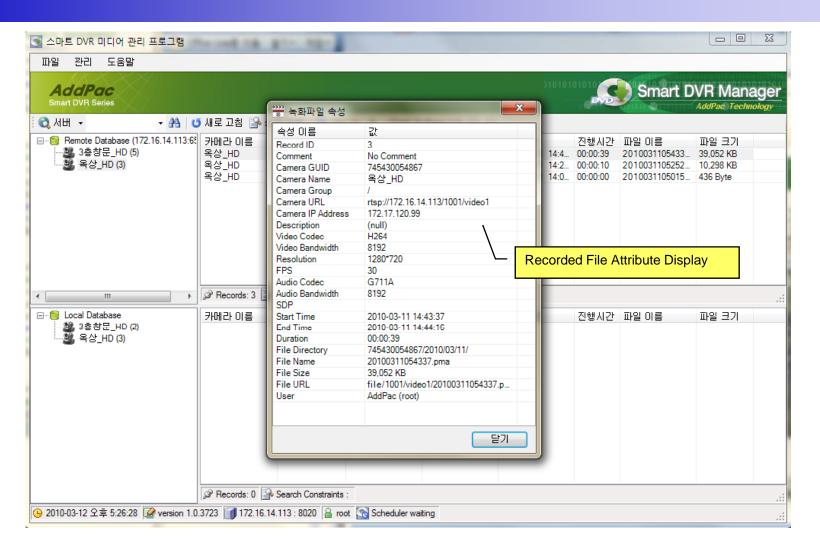


### Smart DVR Media Manager: Media Replay



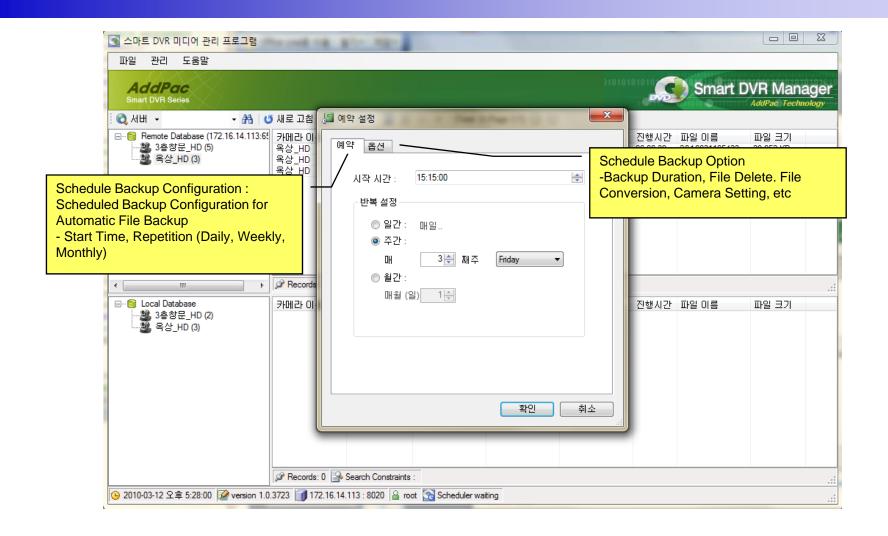


## Smart DVR Media Manager : Media File Attribute





### Smart DVR Media Manager : Schedule





#### Ordering Information

- AP-HIC200 HD IP Camera Hardware
  - AP-HIC200 Main Body
  - Including Network Cable Set & Power Supply Cable, etc.
- Built-in APOS Internetworking Software for AP-HIC200
- 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



## Thank you!

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

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