# AP-HIC200<sup>TM</sup> HD IP Camera High-performance Network DVR Solution



#### **Preliminary Product Overview**

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



AddPac Technology

2011, Sales and Marketing

www.addpac.com

# 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



www.addpac.com

#### 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



High-End RISC+ VP



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





00 % 80

Mag Session Collive Play Record

2005-12-21 오후 3:13:05

I 172 17, 101, 252 : 8020 2 version 1.0.02 for (DVR)

Manager

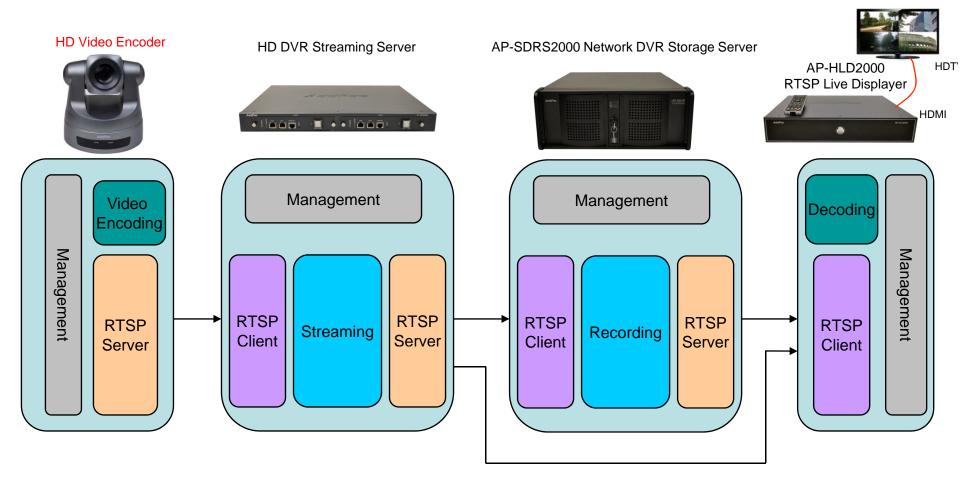
AddPac

APOS

# NVR Storage Server Protocol Block Diagram

#### AP-HIC200 HD IP Camera

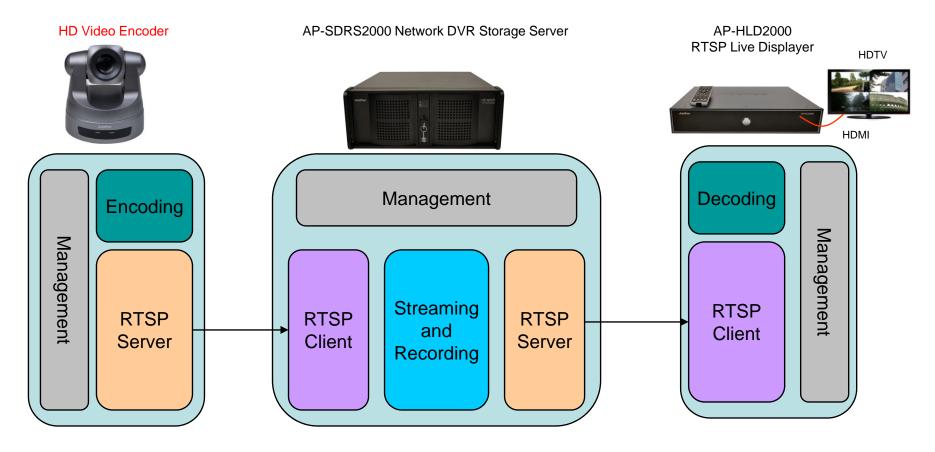
#### Medium & Large Scale Network DVR Solution



# NVR Storage Server Protocol Block Diagram

#### AP-HIC200 HD IP Camera

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

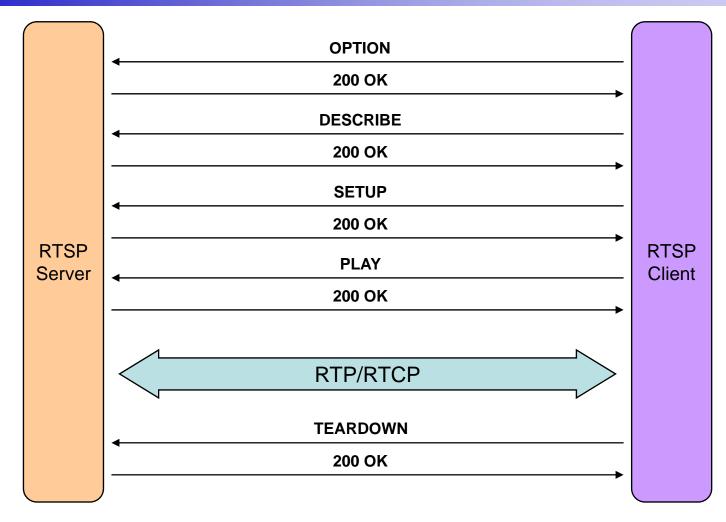


AddPac

www.addpac.com

# **Basic RTSP Message Flow**

#### AP-HIC200 HD IP Camera



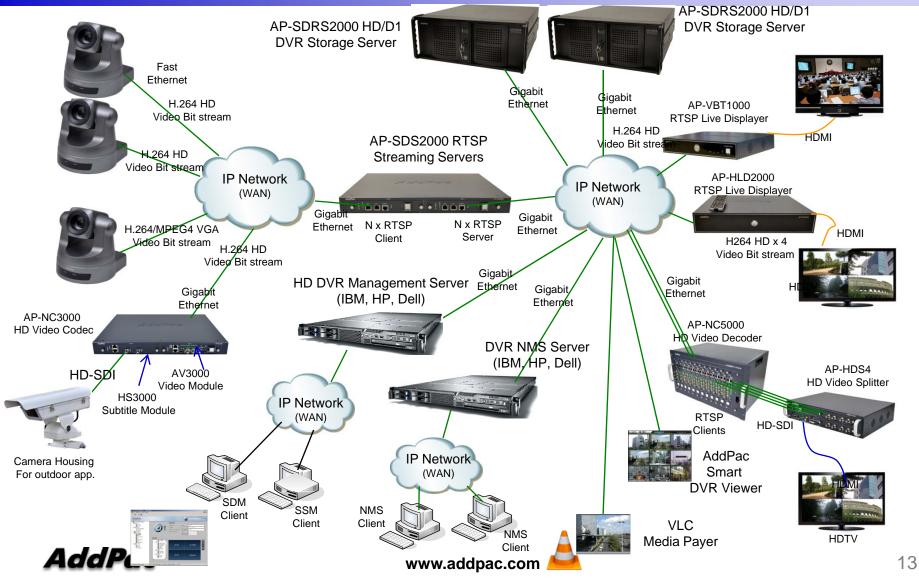


# **IP** Camera Interworking



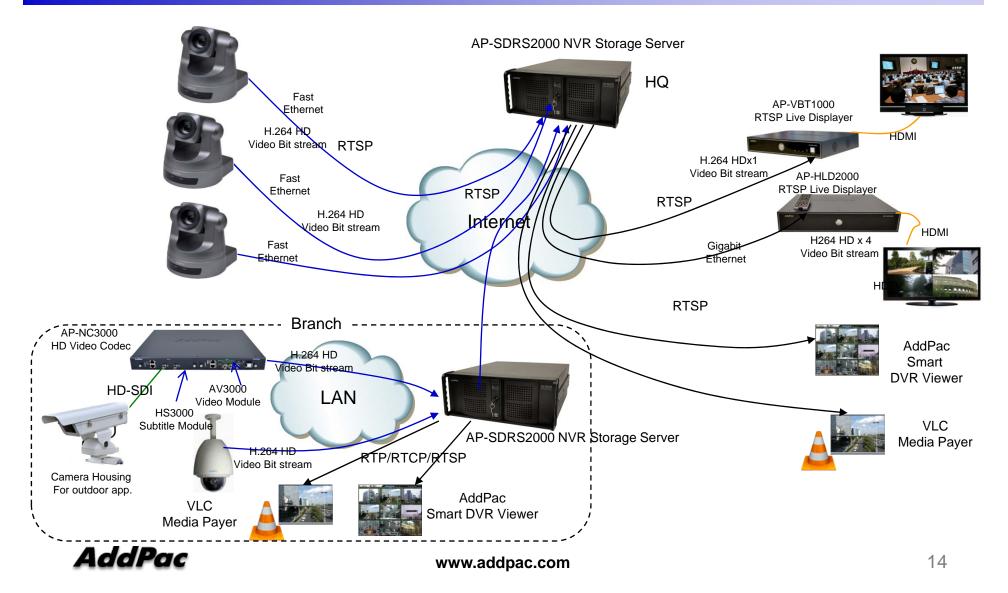
## IP Camera Interworking Diagram (Large Scale)

#### 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

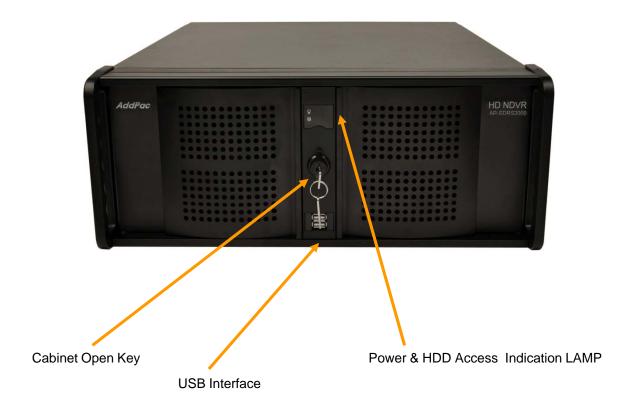
- High Performance Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100/1000Mbps Fast Ethernet
  - Video Output Interface
    - HDMI, DVI, RGB Video Output
  - USB 2.0 Interfaces for Mouse, Keyboard, etc
  - One(1) DVD Writer for Video File Backup
  - Up to Four(4) Hard Disk

High End Processor

AP-SDRS2000 HD NVR Storage Server

High End Processor

#### AP-SDRS2000 Front Side

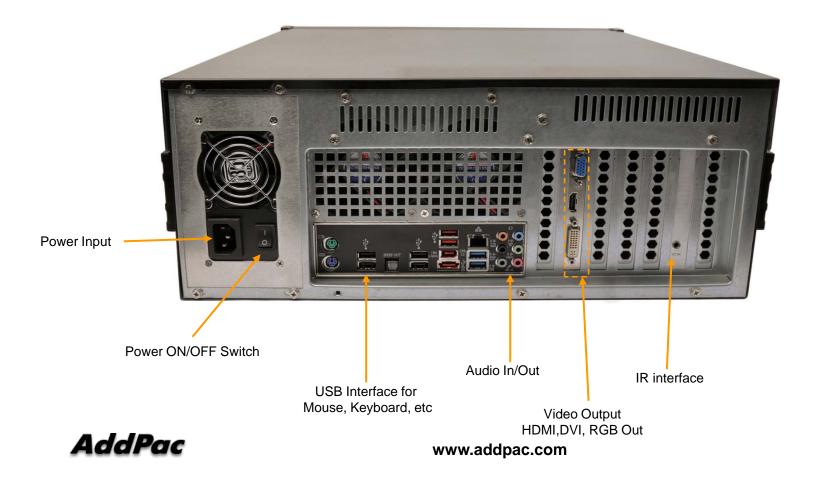


www.addpac.com

AP-SDRS2000 HD 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

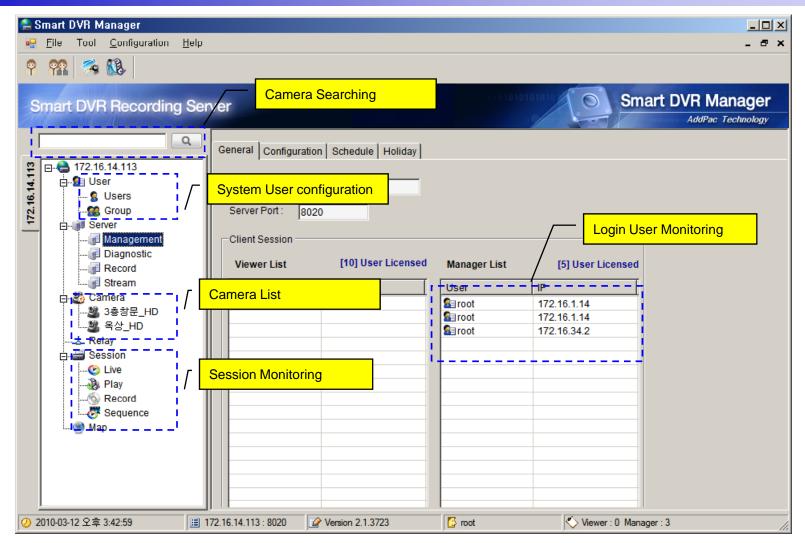


# Smart DVR Manager Features

- 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

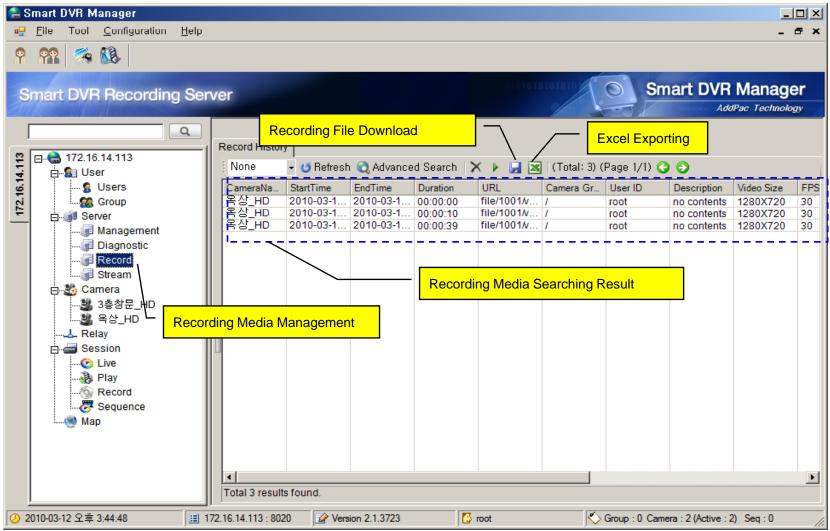


## Smart DVR Manager : Main Layout





# Smart DVR Manager : Recording File Searching



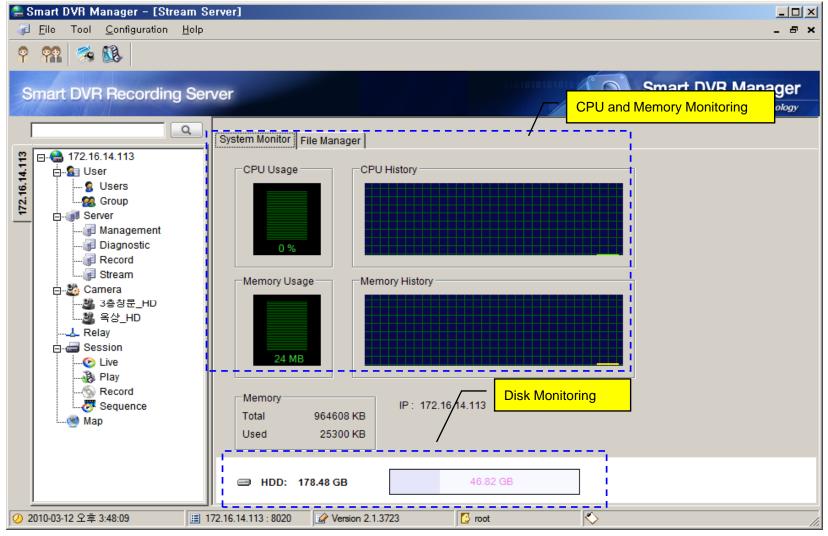


# Smart DVR Manager : Advanced Recording Searching

🔮 Smart DVR Manager	
Elle Tool Configuration Help	
<ul> <li>P PR Sever</li> <li>Banagement</li> <li>Diagnostic</li> <li>Stream</li> <li>Stream</li> <li>Stream</li> <li>Stream</li> <li>Stream</li> <li>Sever</li> <li>Banagement</li> <li>Diagnostic</li> <li>Relay</li> <li>Secord</li> <li>Stream</li> <li>Secord</li> <li>Secord</li> <li>Secord</li> <li>Sequence</li> </ul>	Advanced Search         Record Time       FROM       2010-03-12       ♀↗ 12:00:00       ↓         TO       2010-03-12       ♀ 章 11:59:59       ↓         Content       Relation         Camera Name like 3       AND       ↓         Time       2010-03-12       ♀ 章 11:59:59       NONE         Advanced Searching Rules       Advanced Searching Rules         Selected Searching Rule Clear       Searching Rule All Clear
— 🛞 Мар	Search Cancel
Total 3 results found.	
/ 2010-03-12 仝章 3:44:48 III 172.16.14.113 : 8020	Group: 0 Camera: 2 (Active: 2) Seq: 0

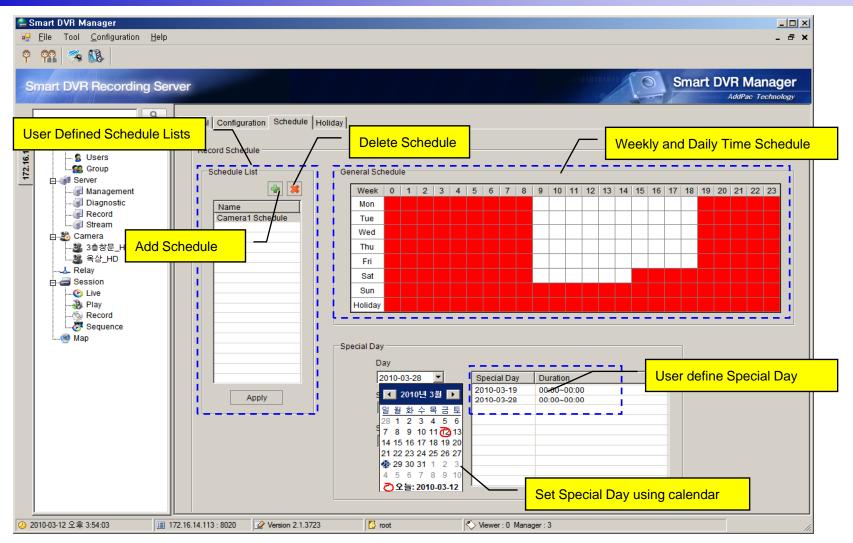


## Smart DVR Manager : System Monitoring





## Smart DVR Manager : Schedule





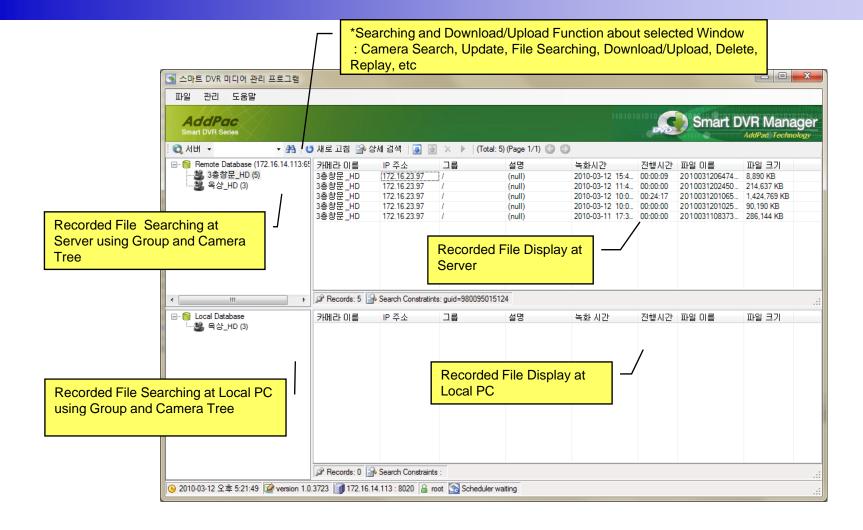
# Smart DVR Media Manager



## 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

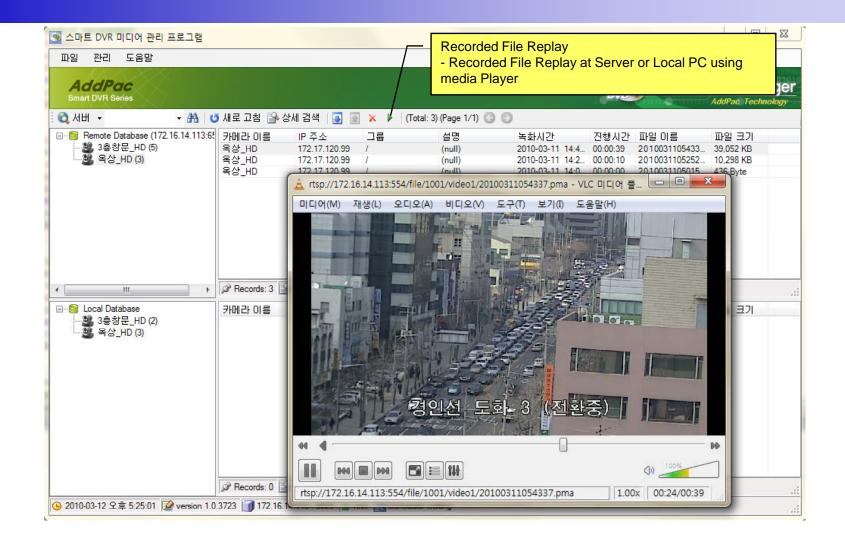


AddPac

# Smart DVR Media Manager : Recorded File Upload / Download

파일 관리 도움말								
	Download					0481048+0+04		01010101 1015010
AddPac Smart DVR Series	Total : 2			Progree	ss Time : 00:00:03		VR Manag	_
💐 서버 🔸 🛛 🔺 📕	파일 이름	총 시간	파일 크기	녹화시간	상태			
	✓ 20100312064746.pma	00:00:09	8,890 KB	2010-03-12 15:4	Done	·일 이름	파일 크기	
월 3층창문_HD (5) 월 옥상_HD (3)	S 20100312024507.pma	00:00:00	214,637 KB	2010-03-12 11:4	Downlo	010031206474 010031202450 010031201065 010031201025	214,637 KB 1,424,769 KB	
Backup Status								
	파일 다운로드 980095015124/2010/03/12/2010	00312024507.pma	downloading	(2/2)				
	and a second state of the second state of the	1	7%	(2/2)				
	980095015124/2010/03/12/2010 받은 크기: 38,438,428 / 2 전체 크기: 47,541,688 / 2	1	7%	(2/2) Time : 00:00:03		e File Transfe Backup (Serv		
∃⊜ Local Database	980095015124/2010/03/12/2010 받은 크기 : 38,438,428 / 2	1 2 219,787,909 Bytes	7%		Status for	e File Transfe	r Progress	
∃⊜ Local Database	980095015124/2010/03/12/2010 받은 크기: 38,438,428 / 2 전체 크기: 47,541,688 / 2	1 219,787,909 Bytes 228,891,169 Bytes	7% 0% Transfer	Time : 00:00:03	Status for PC)	e File Transfe Backup (Serv	r Progress	
∃	980095015124/2010/03/12/2010 받은 크기: 38,438,428 / 2 전체 크기: 47,541,688 / 2	1 219,787,909 Bytes 228,891,169 Bytes	7% 0% Transfer	Time : 00:00:03	Status for PC) 20100312064746 Display Fi	e File Transfe Backup (Serv	r Progress er to Local Progress S	;;;
∃⊜ Local Database	980095015124/2010/03/12/2010 받은 크기: 38,438,428 / 2 전체 크기: 47,541,688 / 2 · 파일 변환 (*.PMA to *.AVI) Converting D:\work\sdv\sdmm Converting Time : 00:00:03	1 219,787,909 Bytes 228,891,169 Bytes	7% 0% Transfer	Time : 00:00:03	Status for PC) 20100312064746 Display Fi	e File Transfe Backup (Serv .P ile Conversion	r Progress er to Local Progress S	.:: Ctatus

## Smart DVR Media Manager : Media Replay





# Smart DVR Media Manager : Media File Attribute

S 스마트 DVR 미디어 관리 프로그램	work the	ATA MANA						
파일 관리 도움말								
AddPac Smart DVR Series		************************************	_	X	)10101		Smart D	VR Manager AddPac Technology
	새로 고침 💁 :	속성 이름	값		1			
	카메라 미름 옥상_HD 옥상_HD 옥상_HD 옥상_HD	Record ID Comment Camera GUID Camera Name Camera Group Camera URL Camera IP Address Description	3 No Comment 745430054867 & & HD / rtsp://172.16.14.113/1001 172.17.120.99 (null)	l/video1	14:2	진행시간 00:00:39 00:00:10 00:00:00	파일 이름 2010031105433 2010031105252 2010031105015	10,298 KB
< •	P Records: 3	Video Codec Video Bandwidth Resolution FPS Audio Codec Audio Bandwidth SDP	H264 8192 1280*720 30 G711A 8192		ecorde	ed File A	ttribute Displ	ay
금·· 🥞 Local Database 3충창문_HD (2) 요청 옥상_HD (3)	카메라 이름	Start Time End Time Duration File Directory File Name File Size File URL User	2010-03-11 14:43:37 2010-03-11 14:44:16 00:00:39 745430054867/2010/03/1 20100311054337.pma 39,052 KB file/1001/video1/201003 AddPac (root)			진행시간	파일 이름	파일 크기
④ 2010-03-12 오후 5:26:28   wersion 1.0.3	-	Search Constraints :	Scheduler waiting	닫기	J			

AddPac

# Smart DVR Media Manager : Schedule

	S 스마트 DVR 미디어 관리 프로그램	Narous 18, Bir. Nor.	
	파일 관리 도움말 AddPac Smart DVR Series	Add	R Manager Pac Technology
	응 Remote Database (172.16.14.113.68 	옥상_HD 옥상_HD 옥상_HD 옥상 HD 시작 시간 : 15:15:00 중 Schedule Backup Option -Backup Duration, File Delet Conversion, Camera Setting	
Automati	ed Backup Configuration for c File Backup me, Repetition (Daily, Week	r kly, ◎ 주간: 매 3숮 째주 Friday ▼	
	< <u>III</u> ▶ ☐ 월 Local Database 월 3층창문_HD (2) 월 옥상_HD (3)	Image: Weight of the second secon	.: 일 크기
		확인 취소	
	<mark>ⓒ</mark> 2010-03-12 오후 5:28:00 📝 version 1.0		

AddPac

#### **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

Phone +82.2.568.3848 (KOREA) FAX +82.2.568.3847 (KOREA) E-mail sales@addpac.com

