HD Video Conference Solution for Police-District Court

Preliminary Product Overview

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





AddPac Technology

2011, Sales and Marketing

www.addpac.com

Contents

- HD Video Conference Service Diagram
- Product Solution
 - AP-HVC200 HD Video Codec (One(1) Channel)
 - AP-MP100 Acoustic Echo Canceller Micro Phone for Video Conference
 - AP-NR10000 IP Video Recording Server

HD/SD Video Conference Network Diagram

Site 1 Site N District Court District Court Intranet (HD, SD) AP-HVC200 HQ HD vided Local Local Video Call Recording Police Police codec AddPac www.addpac.com

AP-HVC200 One(1) Channel HD Video Codec





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Contents

- Product Overview
- Benefits and Features
- Hardware Specification
- Multimedia Service
- Software Service
- Network Service and Features
- OSD Software Features
- Application Area
- Ordering Information





Product Overview

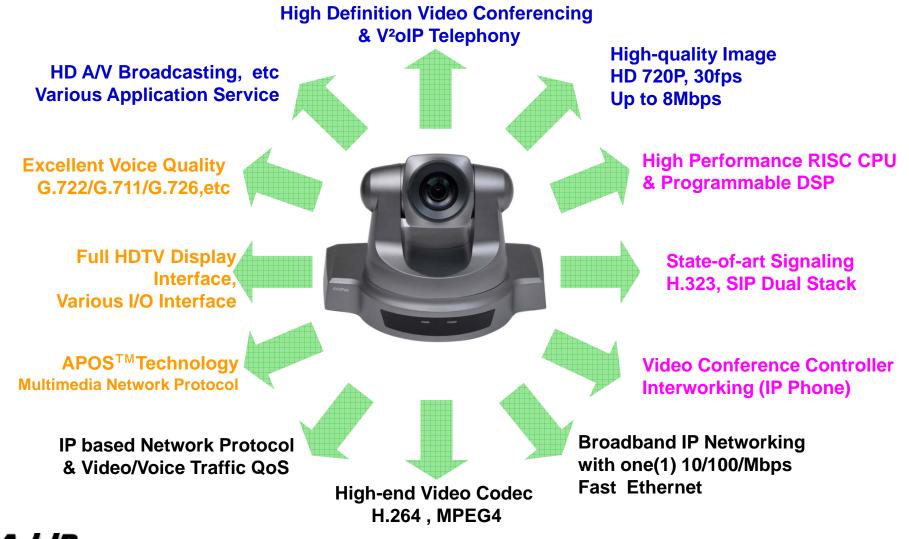
AP-HVC200 HD Video Conference Equipment

- IP based Video Conference Solution
- High-End HD Video Camera Features
- CCD Camera Sensor, 1.3Mega Pixel Camera
- Various Video Format Support
- PAN/TILT/Zoom Housing Features
- Optical 18 x Zoom Camera
- High-performance Video, Audio, and Voice Service
- Flexible Videoconferencing Deployment
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

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Product Highlights

AP-HVC200 HD Video Conference Equipment

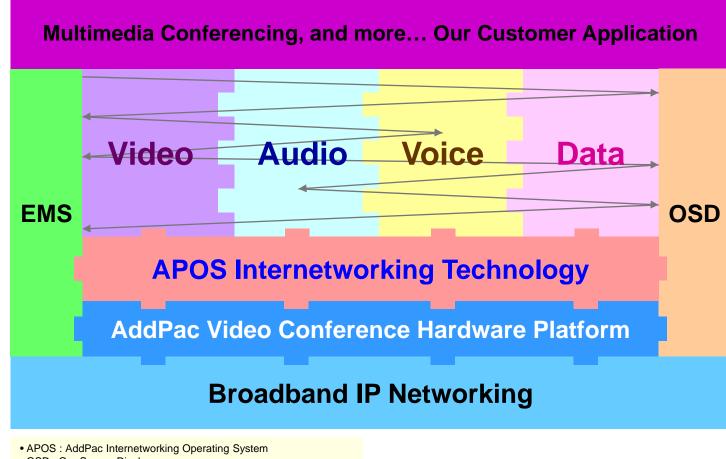


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Multimedia Service

AP-HVC200 HD Video Conference Equipment



OSD : On- Screen Display

EMS : Element Management System



Benefits and Features

- Various Video Output Interface
 - Composite (RCA), Component (Y, Pb, Pr), HDMI
- High-performance Video Codec Support
 - H.264, MPEG4
- Powerful Image Resolution Support
 - CIF(352x288), QVGA(320x240), HVGA(640x240), VGA(640x480), 4CIF(704x576), 720P(1280x720)
- Up to 30fps with HD-Resolution(H.264)
- Video Conference Call Support (External MCU)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



AP-HVC200 HD Video Conference Equipment

- High-end Programmable DSP Hardware Architectur
- Video Output Interface
 - Composite RCA Out, Component Out, HDMI Out
- Audio Interface
 - Stereo RCA Type Audio Output Connector (Left, Right)
 - Stereo Audio Input(3.5mm) for External MIC input
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet(RJ45)
 - One(1) RS-232C Interface (RJ45) for Console
- USB Interface
 - USB 2.0 Interface for Mouse, etc
- Voice Interface
 - FXS Interface for Analog Phone, Analog Conference Phone, etc



High

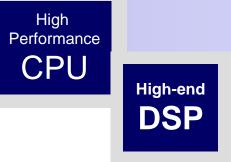
Performance

CPU

High-end

DSP

- Camera Specification
 - 1/3 Type Solid State Progressive Scan CCD
 - HD: 1280(H) x 720(V), 30/25/22.5fps
 - Auto Focus 18 x Optical Zoom, 12 x Digital Zoom
 - 1.3 Mega Pixel
 - Wide Angle Lens for Video Conference Application
 - PELCO-D Control Protocol
 - Position Preset
- Video I/O Interface
 - Composite RCA Out, Component Out, HDMI Out Interface
- RS232/RS485 Interface for External PTZ Control
- IR Interface for Remote Control (Remocon)
- Power ON/OFF Switch





AP-HVC200 HD Video Conference Equipment

High Performance CPU

High-end

DSP

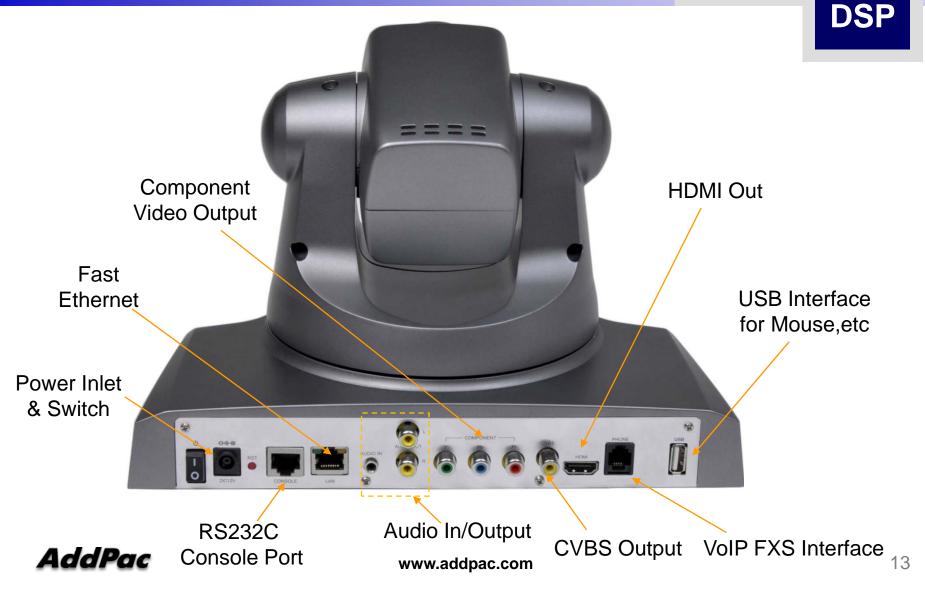




AP-HVC200 HD Video Conference Equipment

High Performance

High-end



Software Service

- Built-in APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- Programmable Video, Audio, and Voice Services
 - Video Codes, Audio, and Voice Codec
- Firmware Upgradeable Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features



Network Service and Features

- Basic Routing
 - Static Routing (IPv4)
 - Static / DHCP / PPPoE
 - VRRP (Virtual Redundancy Routing Protocol)
- Network Management
 - SNMPv2/SNMPv3 Support
 - Standard & Enterprise SNMP MIB Support
 - Web Based Management using HTTP/HTTPS
 - Console / Telnet / Rlogin / SSH Interface
- Security Function
 - Standard & Extended IP Access List
 - HTTPS / SSH Interface
 - Auto-disconnect Telnet/Console Session
 - Access Control for Local Service (FTP/Telnet/HTTP.)
 - Enable/Disable Network Services
 - Multi-Level User Account Management



Network Service and Features

- Operation & Management
 - Configuration Backup & Restore for APOS Managements
 - Use Multiple APOS[™] and Configuration
 - Auto Upgrade via HTTP/HTTPS
 - Debugging, System Auditing, and Diagnostics Support
 - FTP/TFTP/Telnet/SSH Server and Client
 - HTTP Server
 - Remote logging using Syslog
 - Local System Logging (Local HDD model)
 - RADIUS Authentication / Account
- Other Scalability Features
 - Network time Protocol (NTP) Support
 - Cisco Style Command Line Interface (CLI)
 - DHCP Server & Relay Functions
 - DNS Server



OSD Software Features

AP-HVC200 HD Video Conference Equipment OSD Service

- Menu Control Mode
- Dial Mode
- Conversation View Mode
- Display Layout Call Mode
- Key Pad Mode for Dialing Number
- Phone Book OSD
- Phone Book : New Contact
- Recent Call OSD
- Tools OSD Mode
- Codec Configuration : IP address, etc
- Status Bars OSD
- PTZ Control OSD



OSD Software Features (Example)

AP-HVC200 HD Video Conference Equipment OSD Service











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AP-HVC200 HD Video Conference Equipment

Application Area

- Audio/Video Real-time Broadcasting
- Video on Demand Application
- Video Telephony
- Video Conference

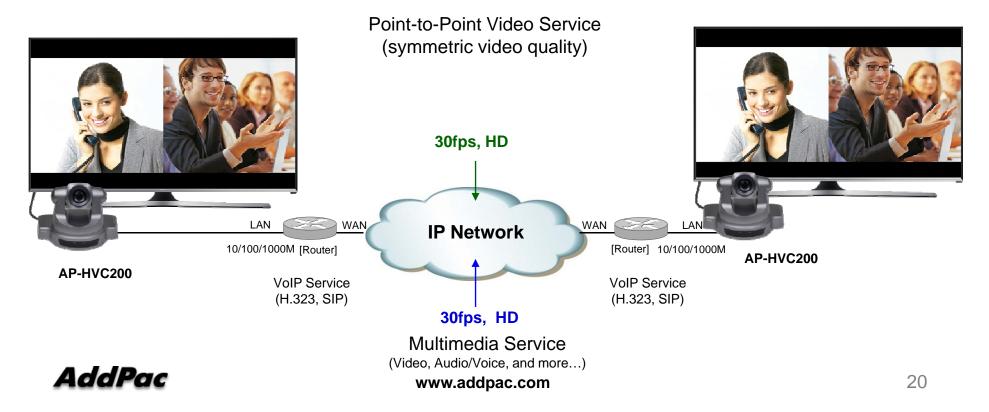


Video Telephony Application

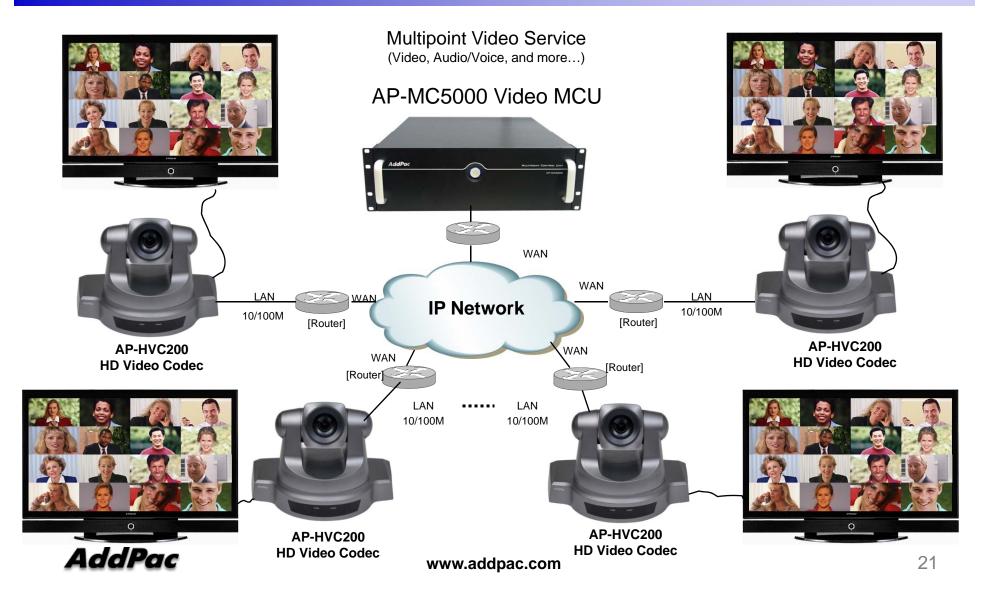
AP-HVC200 HD Video Conference Equipment

H.264, 720P, 30frame

H.264, 720P, 30frame



Video Conference



AP-MP100 Acoustic Echo Canceller Micro Phone





Contents

- Product Overview
- Hardware Specification
- Application Area
- Ordering Information



Product Overview

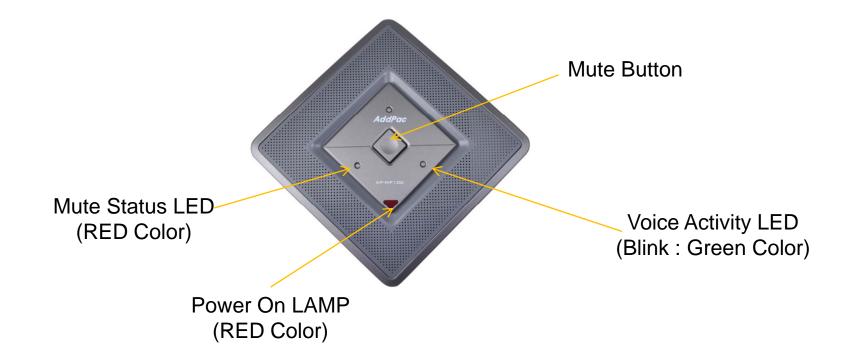
- Acoustic Echo Canceller Micro Phone Solution for Video Conference
- Wide band(16bits, 16kHz sampling) operation
- Support CNG(comport noise generation) to generate white noise
- Support double talk
- Noise reduction algorithm
- Support HDMI speaker mode & analog speaker mode
- S/W upgrade by y-modem protocol via RS232C
- Support CLI(Command Line Interface) to configure AEC parameters
- Voice Activity Detection
- Mute button
- Status LED (Mute, Active)
- Compact Design & Die Casting
- Power On/Off Switch



- DSP based Acoustic Echo Canceller Hardware Architecture
- Status LED (Mute, Active)
- Audio Mute Key Support
- RS232C based Firmware Upgrade Architecture
- Compact Design & Die Casting
- Power On/Off Switch
- MIC Interface
 - Power Input
 - Audio Output







AP-MP100 AEC Micro Phone





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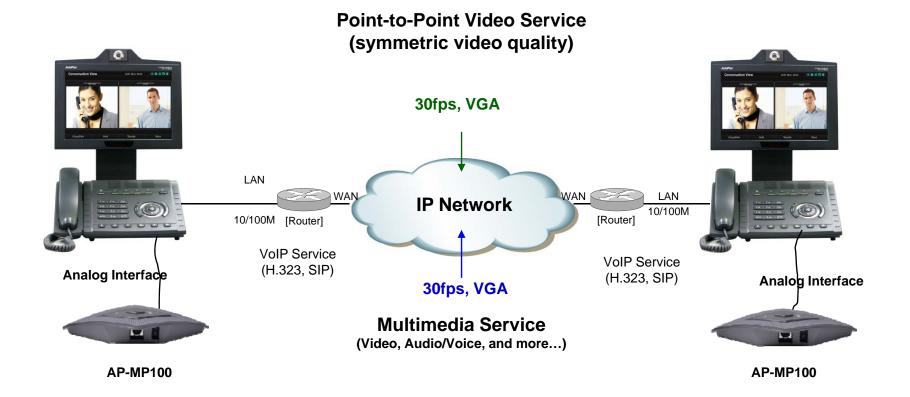
AP-MP100 AEC Micro Phone

Application Area

- Video Telephony
- Video Conference



Video Telephony Application

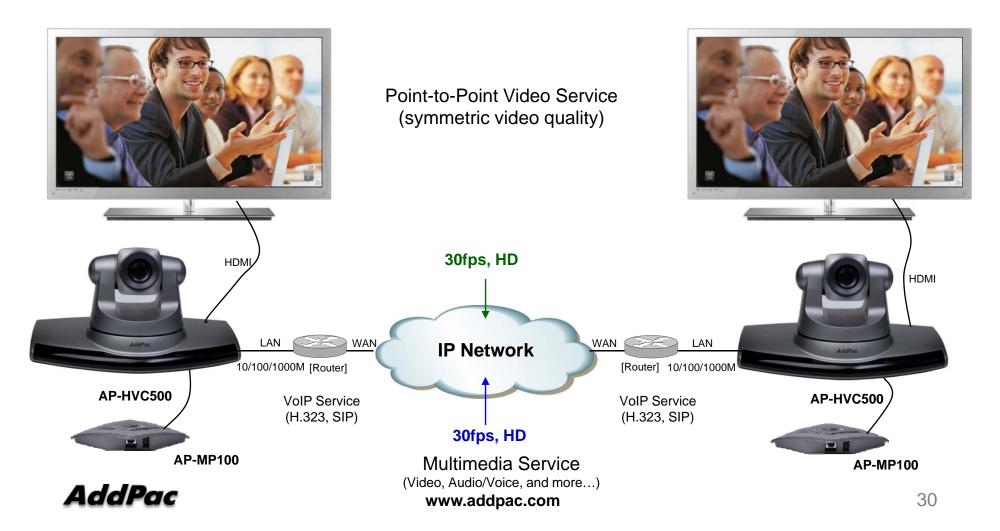


Video Conference

AP-MP100 AEC Micro Phone

H.264, 720P, 30frame

H.264, 720P, 30frame



AP-NR10000 IP Video Recording Server



Contents

- Product Overview
- Product Highlight
- Hardware Specification
- Software Service
- Smart Recording Manager Program
- Application Service
- Ordering Information

Product Overview

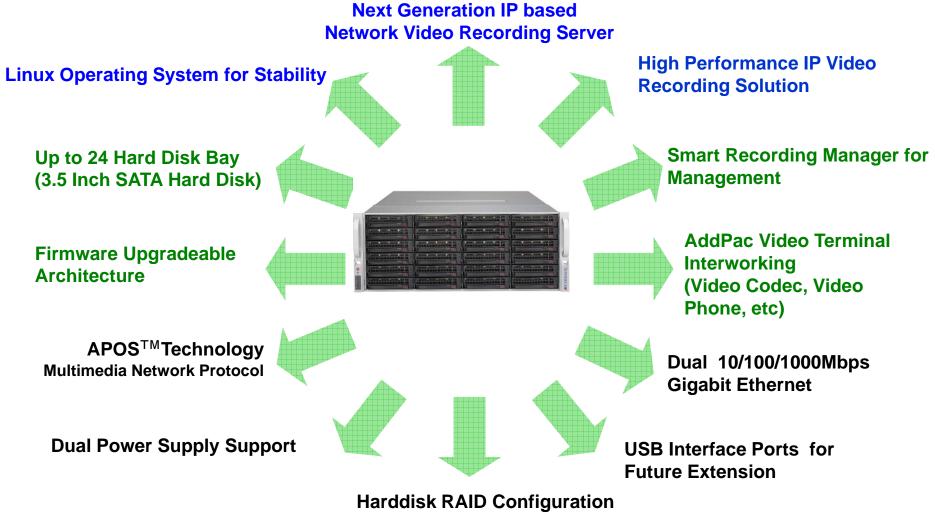
AP-NR10000 IP Video Recoding Server

- IP based Network Video Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Video Recording Service
- External AddPac Video Terminal (Ex: Video Phone) Interworking Support
- Firmware Upgradeable Architecture
- 24 Harddisk Bay
- Hardisk Raid Support (LSISAS RAID 0,1,5,6,10,50,60)
- Dual Power Supply
- SATA2/SATA3 Harddisk Support



Product Highlights

AP-NR10000 IP Video Recording Server



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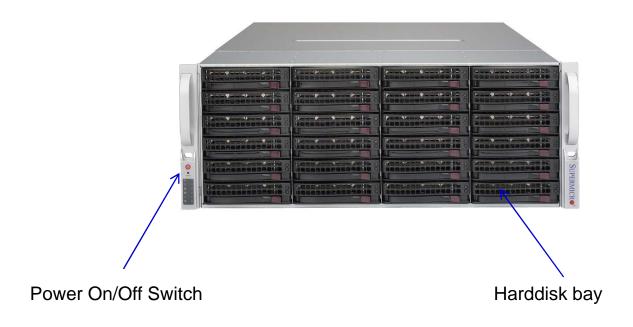
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AP-NR1000 IP Video Recording Server

- High Performance Computing Power
- System Hardware Specification
 - Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 and E5-1600 v4 \pm / v3 family
 - Up to 1TB† ECC 3DS LRDIMM, up to DDR4- 2400†MHz; 8x DIMM slots
 - Intel® C612 Express PCH
 - 24-port 4U SAS2 6Gbps single-expander backplane, support up to 24x 3.5-inchSAS2/SATA3 HDD
 - 1U 920W Redundant Platinum Level Power Supply
 - 7 full-height & full-length expansion slot(s)
 - 3 x 8cm hot-swap redundant PWM cooling fan(s)
 - 7x PCI-E slots total: 2 PCI-E 3.0 x8, 2 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x4 (in x8) or 1 x8 + 1 x0 (auto-switch), & 1 PCI-E 2.0 x4 (in x8)
 - 4x USB 3.0 ports, 8x USB 2.0 ports
 - Intel® i210 Dual port GbE LAN
- Processor : Intel® Xeon E5-2620 v4 (8 Core, 20M Cache, 2.1GHz)
- Memory : 16GB DDR4 ECC REG 2133MHz PC4-17000 ۲
- Raid : AOC-S3108L-H8iR (LSISAS RAID 0,1,5,6,10,50,60) AddPac www.addpac.com

AP-NR10000 IP Voice Call Recording Server

AP-NR10000 Front Side

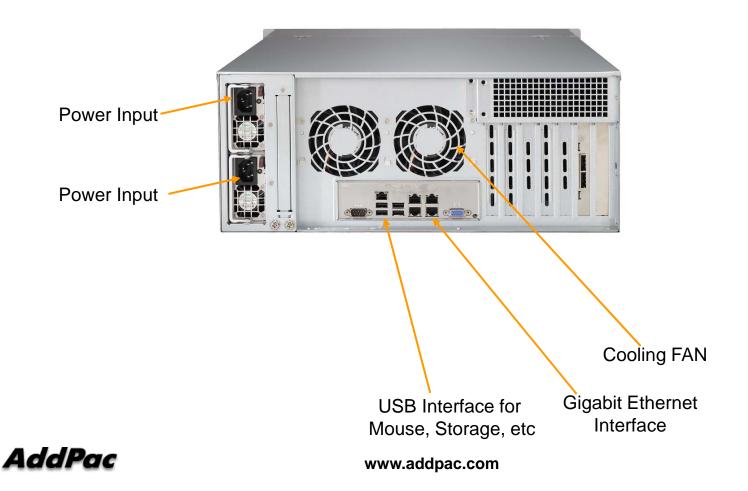


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Hardware Specification

AP-NR10000 IP Video Recording Server

AP-NR10000 Back Side



Software Service

AP-NR10000 IP Video Recording Server

- Built-in AddPac Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Advanced Network Video Recording & Live Streaming Features
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - PC based Window Program
 - Smart Recording Manager

ddPac APOS
AddPac Smart DVR Manager



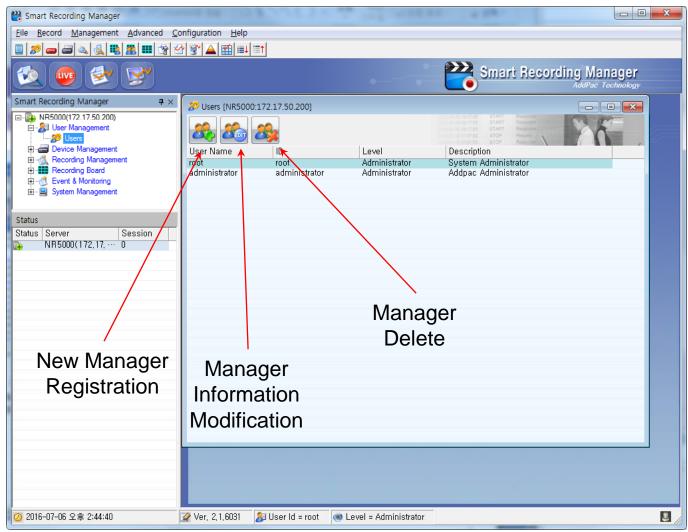
Smart Recording Manager Program

AP-NR10000 IP Video Recording Server

- User Management (registration/modify/delete/search)
- Recording Server Management
- Recording File Management
- Recording File Play with VLC application
- Export Recording History to File(EXEL)
- Live Call Monitoring (Play)
- Event Management
- Recording Board Management
- Smart Recording File Manager

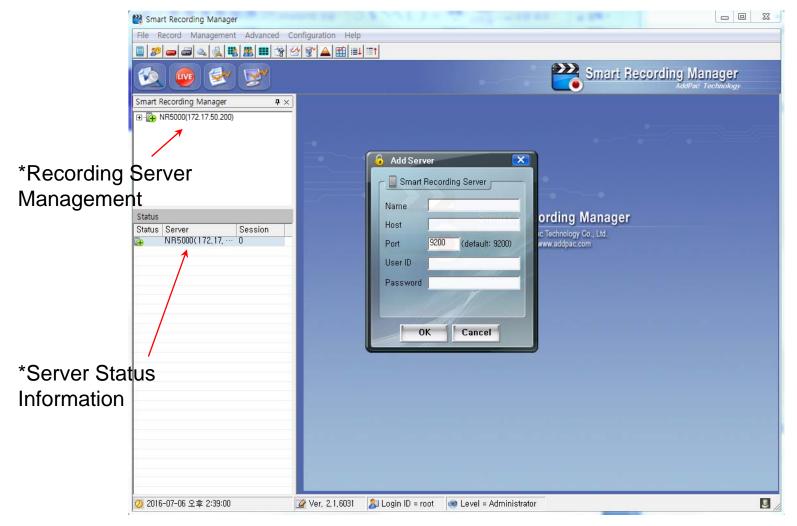


User Management





Recording Server Management





Recording Server Status Monitoring



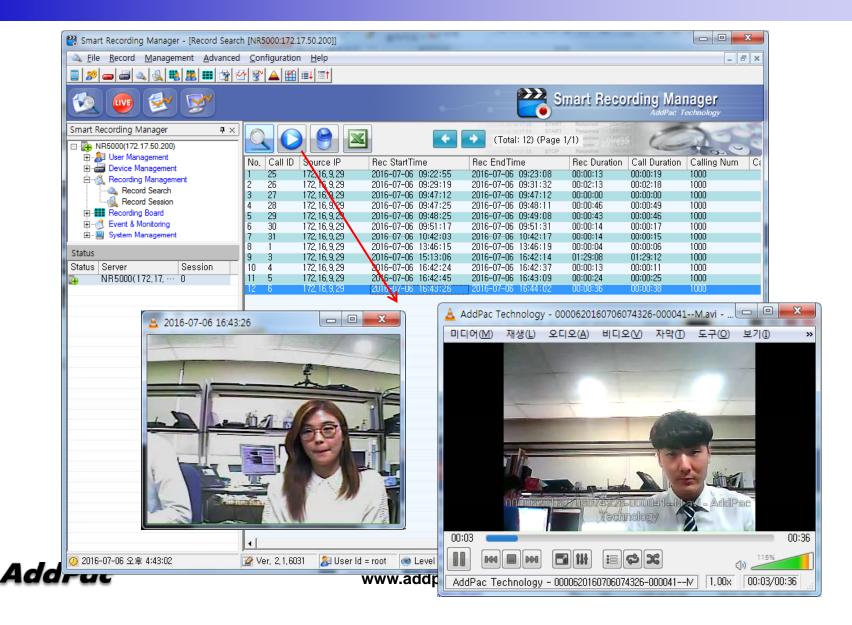


Recording File Management

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Recording File Play with VLC application



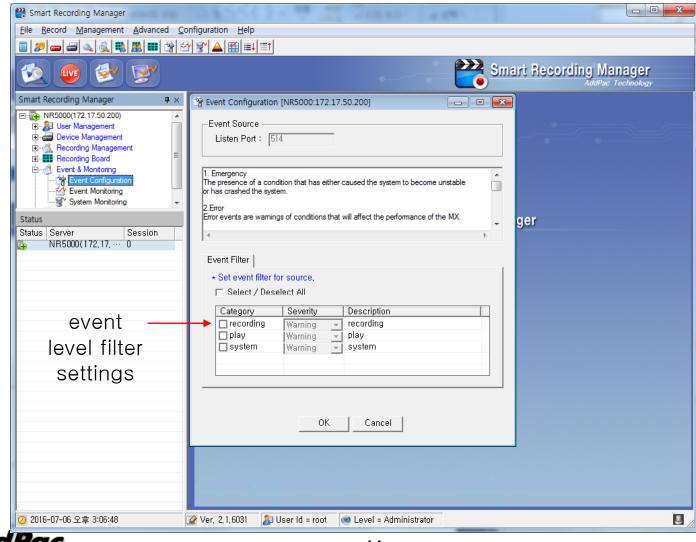
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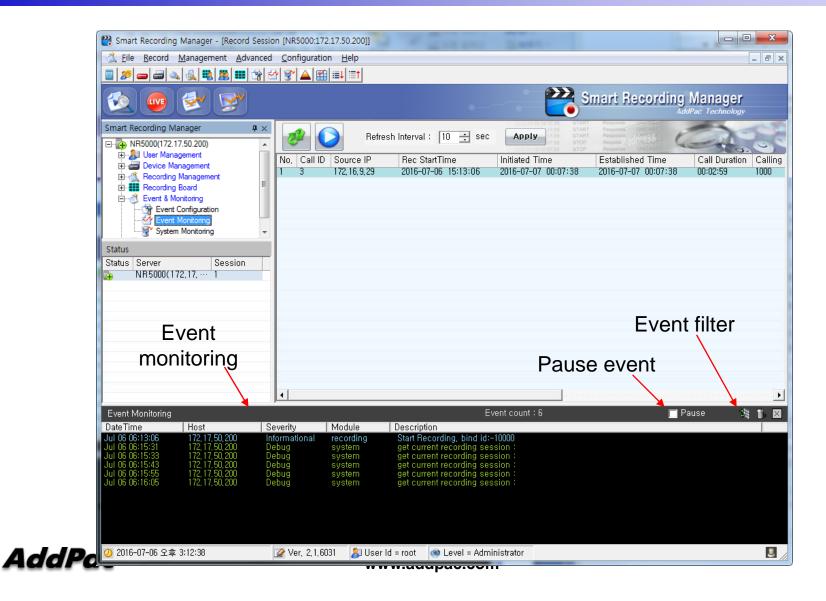
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Event Configuration





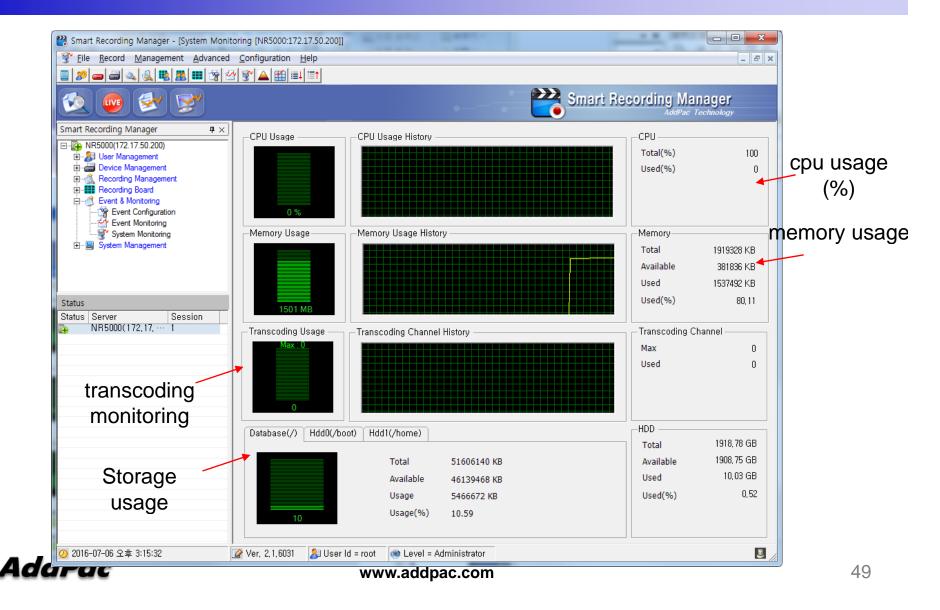
Event Management (Monitoring)



48

Event Management

(System Monitoring)



Recording Board

😤 Smart Recording Manager - [Users [NR500	0:172.17.50.200]]	1.1		-	
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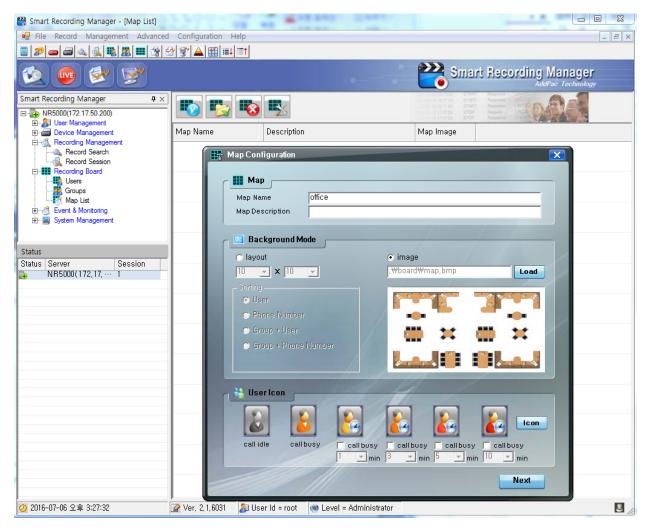


Recording Board (Group)

🞇 Smart Recording Manager - [Groups [NR50	000:172.1	.7.50.200]]				
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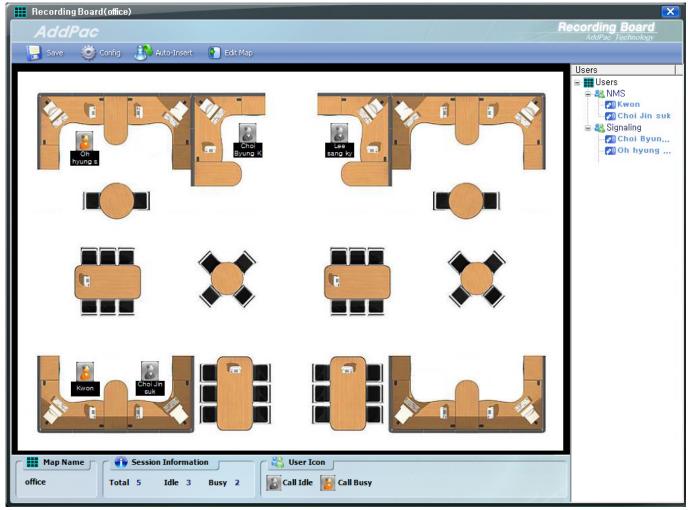


Recording Board (Map)





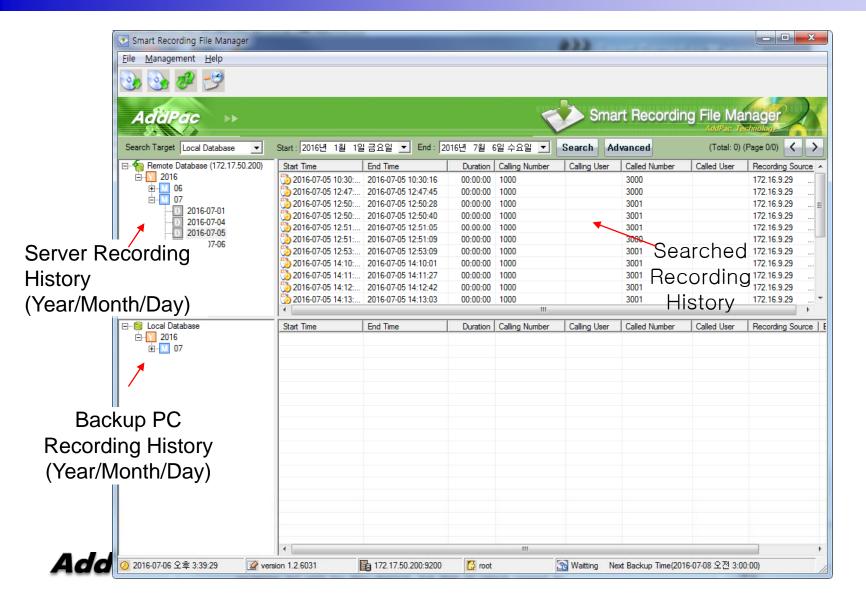
Recording Board (Map Editing and user monitoring)





Smart Recording File Manager

(Recorded Call List Search)



54

Smart Recording File Manager (Configuration)

File Managemen	t Help							
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Smart Recording File Manager

(Call List Properties)

Smart Recording File Manager					#22	-	and Section 1			
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Smart Recording File Manager

(Server to Local Backup)

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Smart Recording File Manager (Recorded Call List Search)

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Smart Recording File Manager (Periodical Backup)

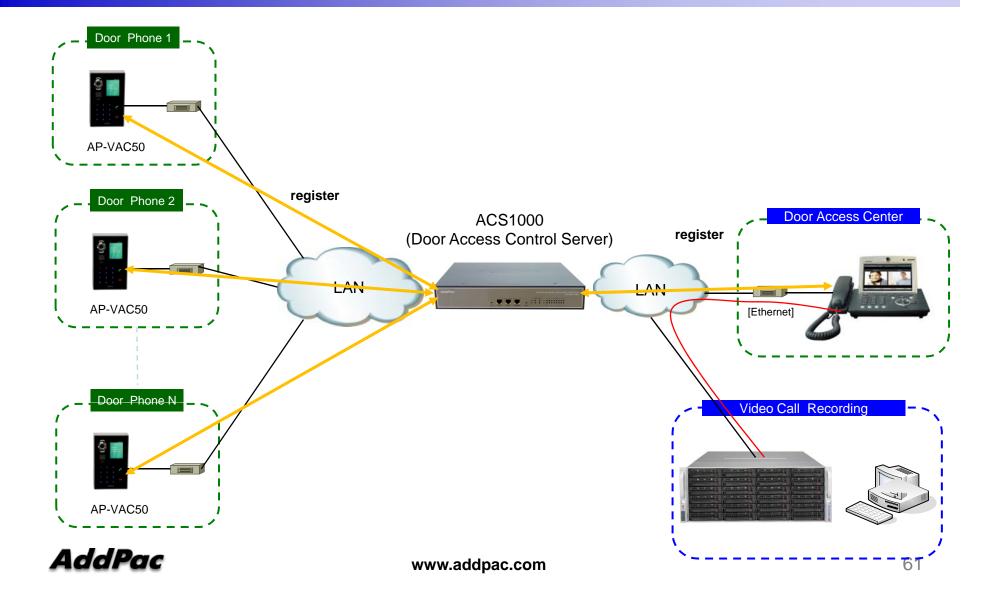
File Management Help				
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			OK Cancel	

Application Service

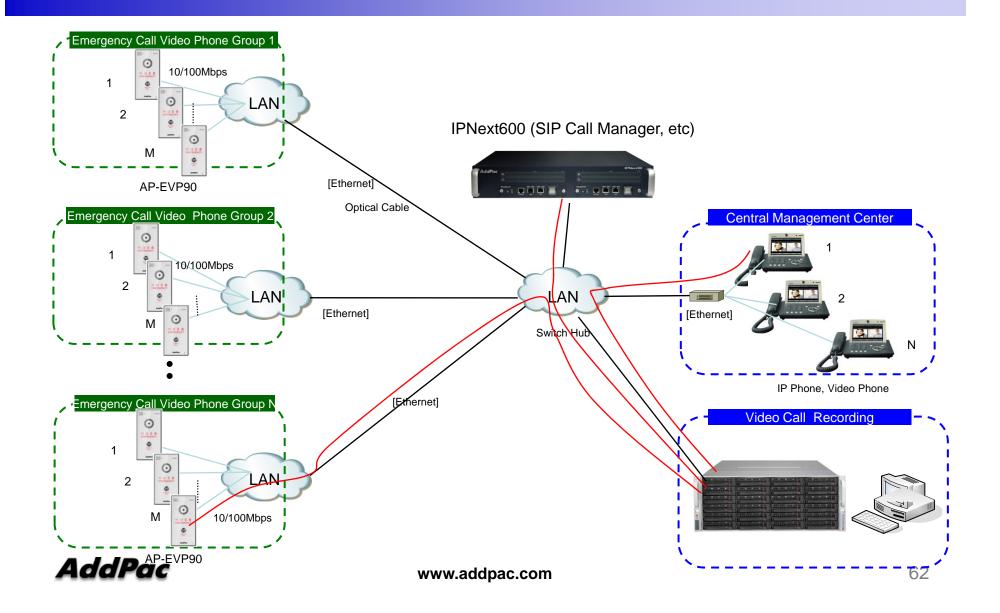
AP-NR10000 IP Video Recording Server

- IP Video Door Phone Application
- IP Video Telephony Application
- Video Conference Application
- Emergency Call Video Phone Application

IP Video Door Phone Application



Emergency Video Call Center Application



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

