AP-ISMS200

Integrated Security Management System

High-performance Integrated Security Management System Solution

Integrated Security Application for Large Size Ship, Cargo Ship, Cruise Ship, etc.

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AddPac Technology

Sales and Marketing

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- Product Overview
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- Ordering Information

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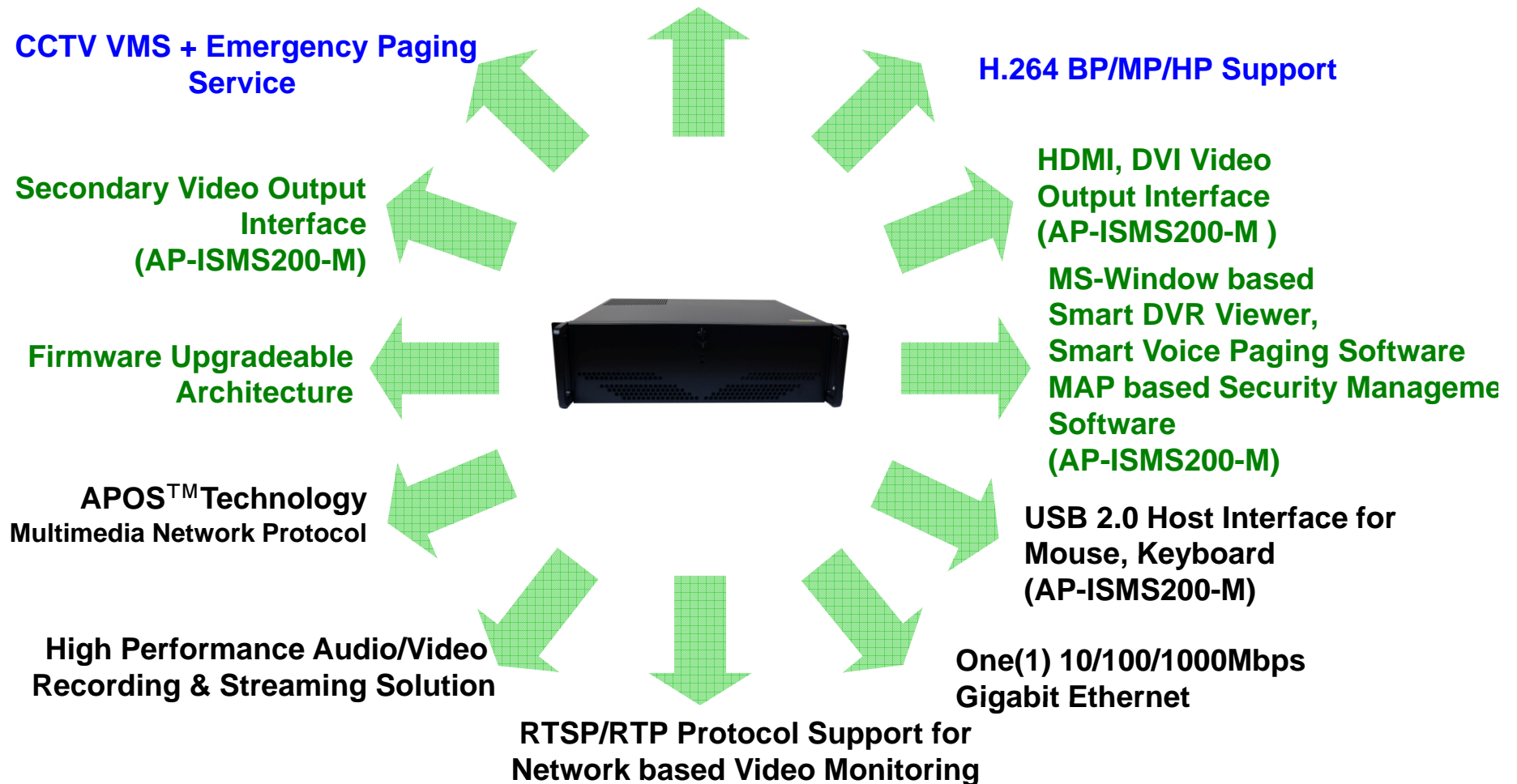# Product Overview

- CCTV NVR Service + Emergency Paging Service + Security Sensor Management Service + SIP Video Door Phone Attendant Service for Access Control + RTSP Video Streaming Service
- Window or Linux based Operating System
- High-Performance Full HD, HD, SD Network DVR
- H.264 Video Codec BP/MP/HP
- Onvif Standard based IP Camera, Video Codec Support
- Full HD, HD, D1 Video Resolution Support
- Video Out : HDMI, DVI Interface (AP-ISMS200-M)
- Secondary Video Output Interface (AP-ISMS200-M)
- 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

Product Highlights

AP-ISMS200 Integrated Security Management System

Next Generation Security Service Integration System

CCTV VMS + Emergency Paging Service

H.264 BP/MP/HP Support

Secondary Video Output Interface (AP-ISMS200-M)

HDMI, DVI Video Output Interface (AP-ISMS200-M)

MS-Window based Smart DVR Viewer, Smart Voice Paging Software MAP based Security Manageme Software (AP-ISMS200-M)

Firmware Upgradeable Architecture

APOS^{TM}Technology Multimedia Network Protocol

USB 2.0 Host Interface for Mouse, Keyboard (AP-ISMS200-M)

High Performance Audio/Video Recording & Streaming Solution

One(1) 10/100/1000Mbps Gigabit Ethernet

RTSP/RTP Protocol Support for Network based Video Monitoring

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Hardware Specification

AP-ISMS200 Integrated Security Management System

High End Processor

- AP-ISMS200-M Management System

- High Performance Computing Power

- Main Chassis
    - Network Interface
        - One(1) 10/100/1000Mbps Gigabit Ethernet
    - Video Output Interface
        - HDMI, DVI Video Output
    - Secondary Video Output Interface
    - USB 2.0 Interfaces for Mouse, Keyboard, etc
    - SATA Hard Disk

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Hardware Specification

AP-ISMS100 Integrated Security Management System

Front Side
(AP-ISMS200-M)

Cabinet Open Key

Hardware Specification

AP-ISMS100 Integrated Security Management System

High End Processor

Back Side
(AP-ISMS200-M)

Power ON/OFF Switch

Power Input

Video Output

Audio In/Out

USB Interface for
Mouse, Keyboard, etc

Secondary Video Output
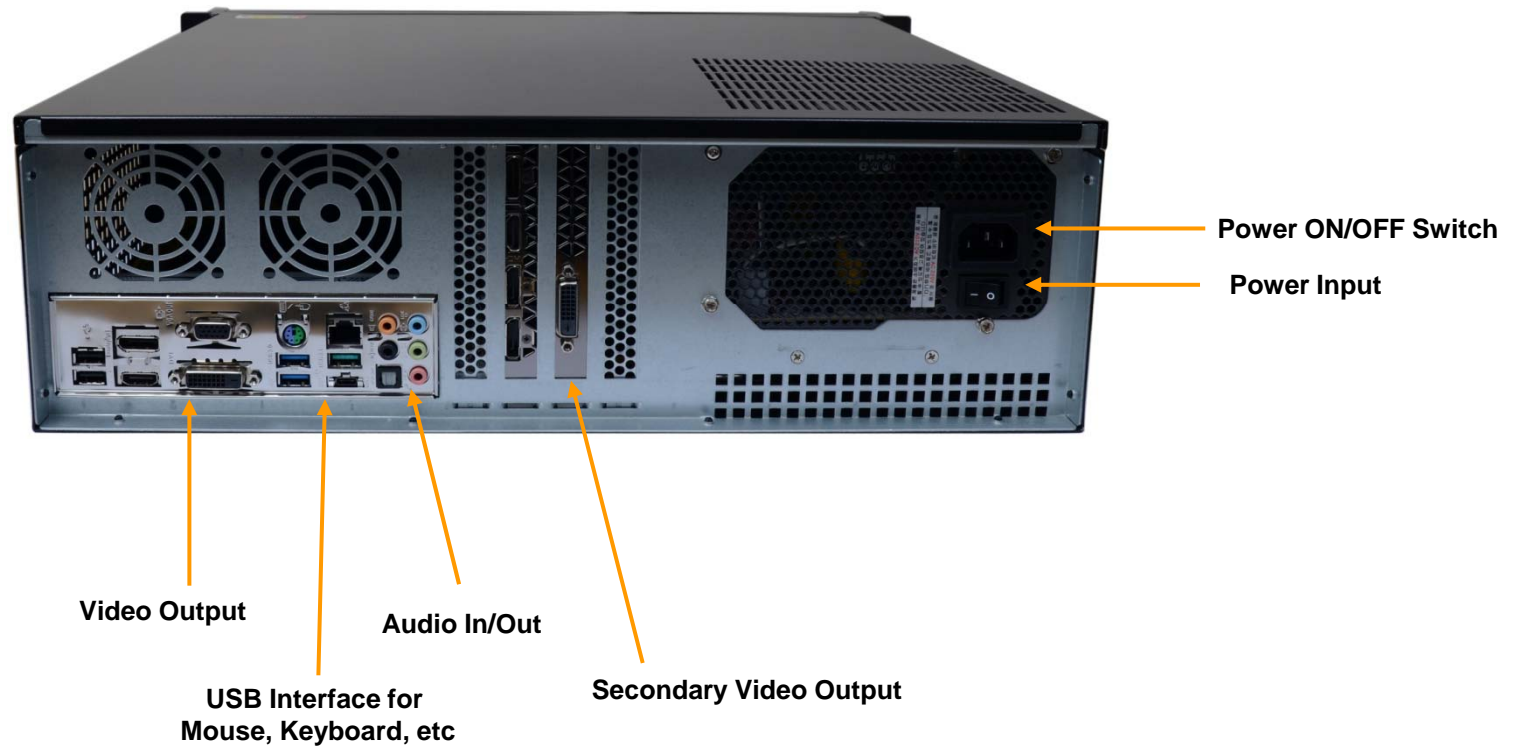
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Software Service

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

AddPac APOS

AddPac Smart DVR Manager

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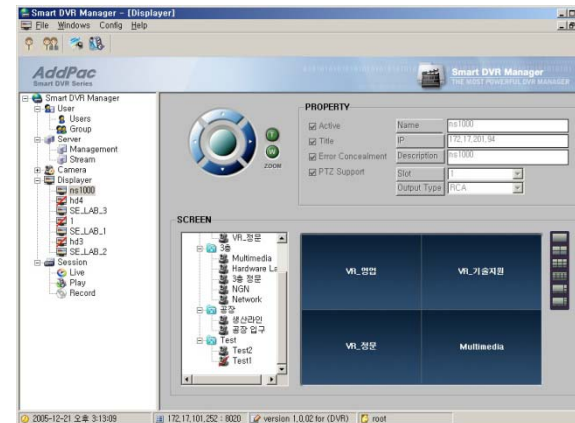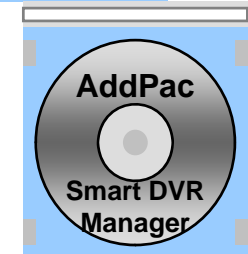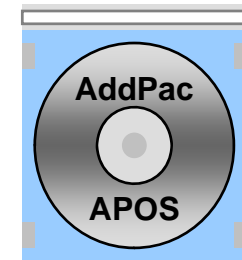
CCTV NVR Service

Smart DVR Viewer

AP-ISMS100 Integrated Security Management System

- Multi-Standalone DVR Server Support
- Onvif Protocol Support for CCTV Device Control
- PAN/TILT/ZOOM Control, Layout & Screen Mode Change
- Multi-Live View, Multi-Recording View, Time Synchronization View
- Fast Search, Jog Shuttle Slow Motion & Rewind
- Recording ZOOM View
- Audio/Video Support.

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Smart DVR Backup Manager

AP-ISMS100 Integrated Security Management System
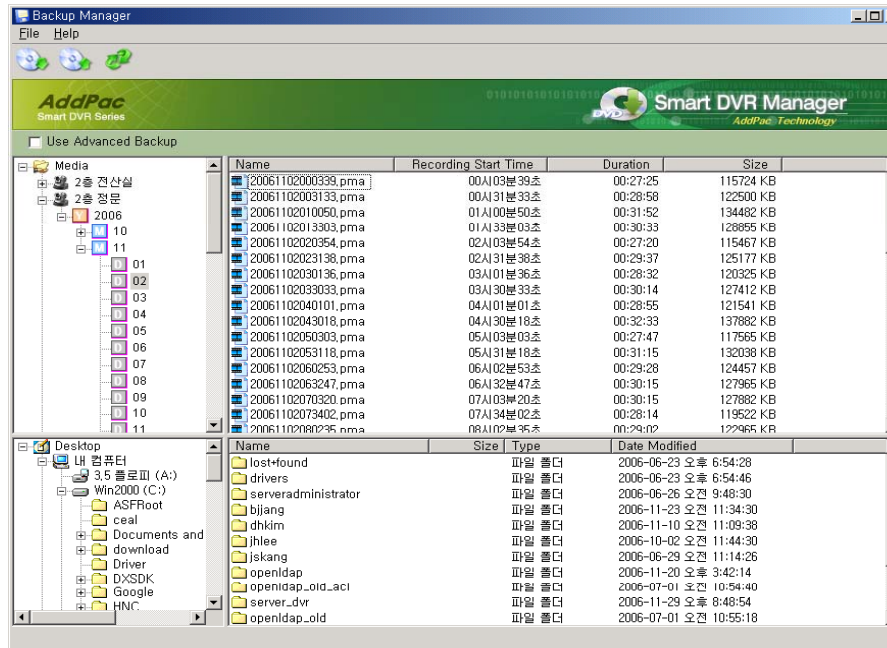
- DVR Backup Software for AddPac DVR Solution
- User can backup DVR data by using DVR Backup Manager.
- Support the Advanced Backup Function
- Support the Backup Data Restore Function
- DVD Burning Support

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Emergency Paging Service

Contents

- Network Diagram
- Main Features
- Software Requirement
- Hardware Requirement
- GUI examples

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Network Configuration

Sensor Management
+ Paging Service +
SIP Video Door Access Control

CCTV Display

Site

Onvif IP Camera
(Paging Terminal)

AMP. Speaker

(Source : file or MIC)

AP-ISMS200

Internet

AP1605L
(Paging Terminal)

AMP. Speaker

AP1605L
(Paging Terminal)

......

AP1605L(Terminal)

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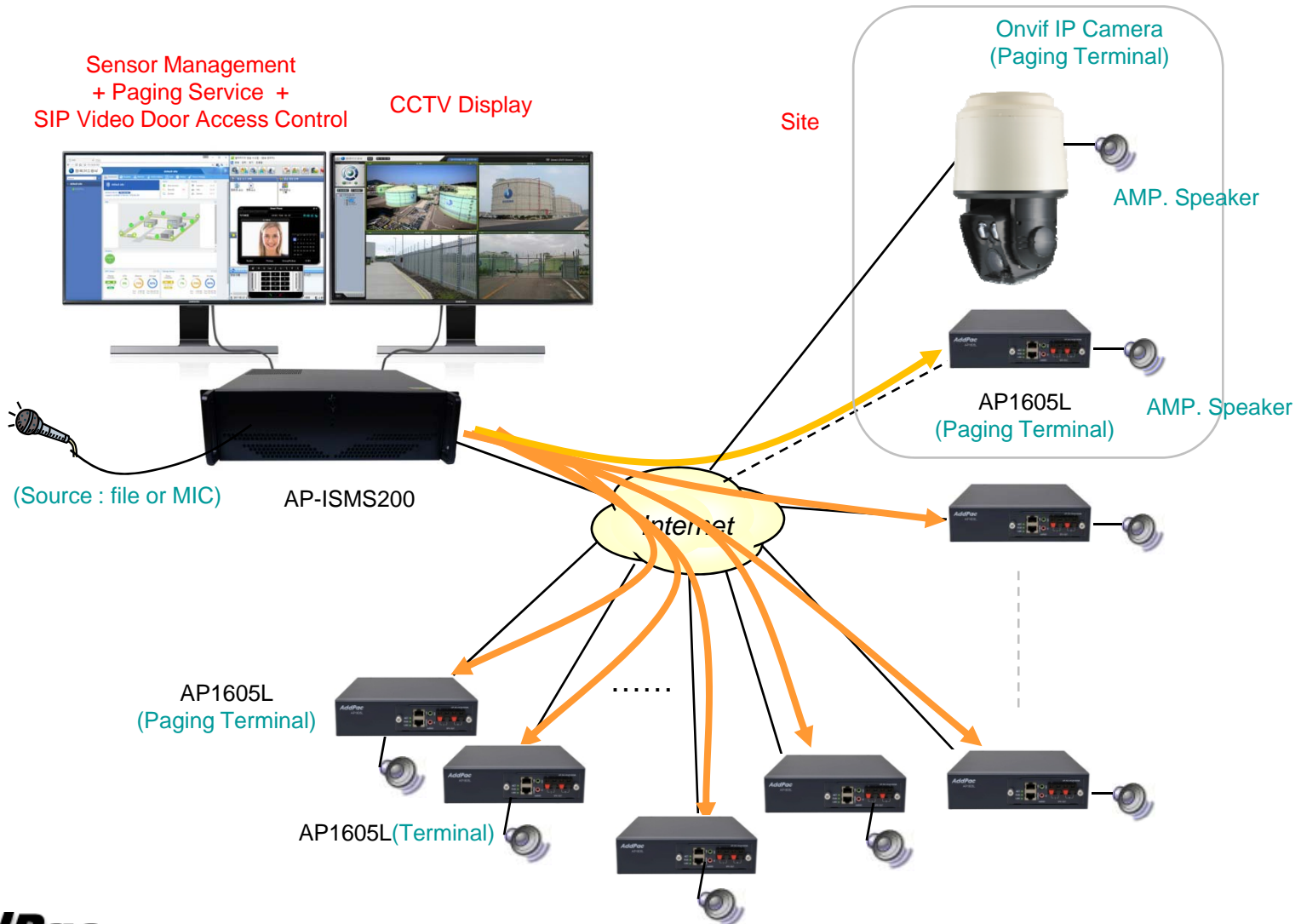
Main Feature

- Window based IP Broadcasting Server with Management Software

- Unicasting/Multicasting Service Support

- Onvif aware RTSP Protocol Support

- Onvif IP Camera Support for Broadcasting

- RTP (Real-time Transmission Protocol) Support

- Various Voice/Audio Codec Support (G.711, SPEEX, etc)

- User Register and Access Restriction Management

- Broadcasting Device Management

- Broadcasting Source, Group, Favorite List Management

- Reserved Broadcasting and Time Signal Broadcasting

- TTS Broadcasting

- IP Broadcasting Terminal Status Check, etc

- Search Event Log

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Software Requirement

1. Database : MySQL Server 5.0

2. e-MBMS Server
   - Java JRE 1.5
   - e-MBMS Server

3. e-MBMS Client
   - e-MBMS Client

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Hardware Requirement

1. **e-MBMS Server H/W Requirement**
   - CPU: Intel Pentium4 1GHz (minimum)
   - MEMORY: 512Mbyte (minimum)
   - HDD: 40GB
   - OS: Windows XP, Windows 2000, Windows 7..

2. **e-MBMS Client H/W Requirement**
   - CPU: Intel Pentium Series
   - MEMORY: 256Mbyte (minimum)
   - OS: Windows XP, Windows 2000, Windows 7..

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WBS GUI Initial Screen

Broadcasting Device Management

Broadcasting Group Management

User Management

Reserved Broadcasting Management

TTS Broadcasting

MAP based Integrated Security Management Service

MAP based Integrated Security Management Service Overview

- JavaScript based Interactive MAP Service
- Integrated Security Management Service via MAP based Device Overlay Display
- CCTV Camera, Sensor Hub, Sensors, IP Paging Terminal, Video Door Phone, etc, Geographical Display on MAP for Instinctive Control Service
- MAP Editor Service (Background Image, Device Lists, etc)
- MAP based Sensor Device Alarm & Status Display
- Click IP Camera ICON to View on MAP
- Click IP Paging Terminal ICON for Emergency or Warning Paging Service
- Zoom to Area, Double Click Zoom, Scroll Wheel Zoom, etc
- Tile Layer, etc

MAP based Integrated Security Management Service Overview (Example)

MAP based Integrated Security Management Service Overview (Tile Layer Example)

MAP based Integrated Security Management Service Overview (MAP Editor Service)
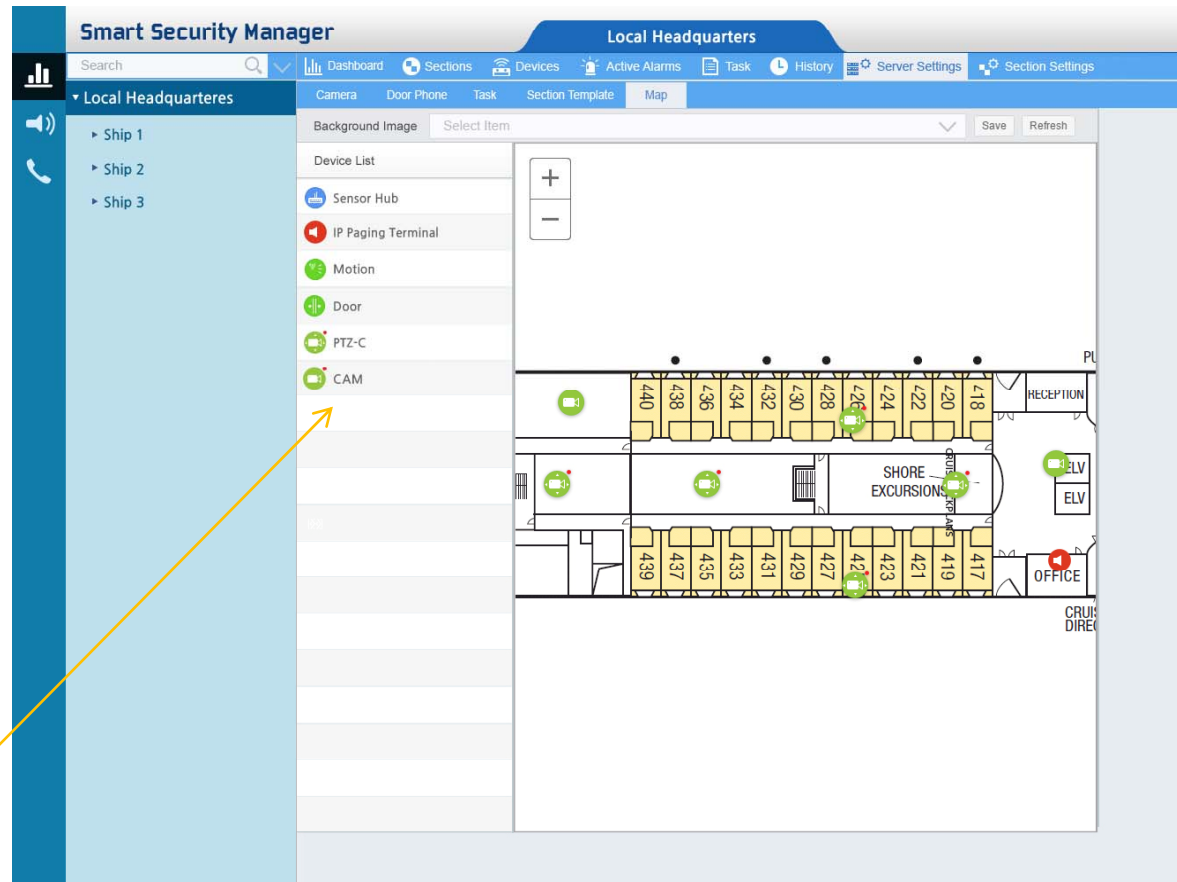
Device Lists : IP camera, IP paging terminal etc

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IP Emergency Intercom Service (AP-EIP70 + AP-IP120)

IP Emergency Intercom
(AP-EIP70)

Product Overview

AP-EIP70 Emergency Call IP Phone

- High Performance Emergency Call IP Phone Solution
- Emergency Call IP Phone Solution for Outdoor Application
- Water Resistance Function Support
- Full Duplex Voice Communication
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- SIP VoIP Signaling Stack Embedded
- Powerful Acoustic Echo Canceller Chip Embedded
- Optional External Audio In/Out Interface Support for Noisy Street Installation
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism
- Die-Casting STILL Chassis

Hardware Specification

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
- Emergency Call Button & LAMP
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface
- RS232/RS485 Interface
- External RCA Audio Line Out and MIC In (back side)
- Power Supply
  - Power over Ethernet (Option)
  - External Power Adaptor
- Die-Casting STILL Chassis (Option)

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Hardware Specification
AP-EIP70 Emergency IP Phone

Front Side

Stainless Steel Cover for Water Protect

Emergency Call Button with LED

Internal Speaker

Internal MIC Input

STILL Chassis

Hardware Specification

Back Side

Backside Wall Mount Bracket

Rubber Cover for Water Protect

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Hardware Specification

Back Side

RS485

RS232

2 Alarm,2 Relay Out

Option : Line Out

Option : MIC In

LAN Port

Power Input : Terminal Block 12V 1A

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IP Phone
(AP-IP120)

Product Overview

- IP Phone Solution
- 12 Speed-Dial Key with Presence Indication Lamp
- High-performance Audio, and Voice Service
- Firmware Upgradeable Architecture
- VoIP Solution with Outstanding Network Service Capability
- Audio Privacy Protection

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Hardware Specification

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Optional PSTN Backup (FXO) Interface
- Optional PoE (Power over Ethernet)
- High quality Audio and Voice Interface
    - Stereo Audio Input Connector
    - Stereo Audio Output Connector
- Network Interface
    - Two(2) 10/100Mbps Fast Ethernet
- LCD Window : Graphic LCD (4 Line Text)
- 12 Speed-Dial Key with Presence Indication LAMP
- Power Supply
    - External Power Adaptor (5V, 2A)

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Hardware Specification

AP-IP120 IP Phone

Hardware Specifications

AP-IP120 IP Phone	Basic Specifications
CPU	RISC Microprocessor
Ethernet Interface	2-Ports 10/100Mbps Ethernet Interface(RJ-45)
PSTN Backup Port (Optional)	1-Port PSTN Backup Port(RJ-11)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	16Mbyte High-speed SDRAM
Power Requirement	External Power Supply Adaptor / VAC 110~220V, 50/60Hz, 10Watt(5V,2A)
	Power over Ethernet (option)
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimensions	H x W x D (70mm x 200mm x 210mm)
Weight (g)	1Kg

Network interface Configurations

Back Side

Headset Interface

FXO interface (Optional)

LAN1 10/100Mbps Ethernet

LAN0 10/100Mbps Ethernet

External Power Interface

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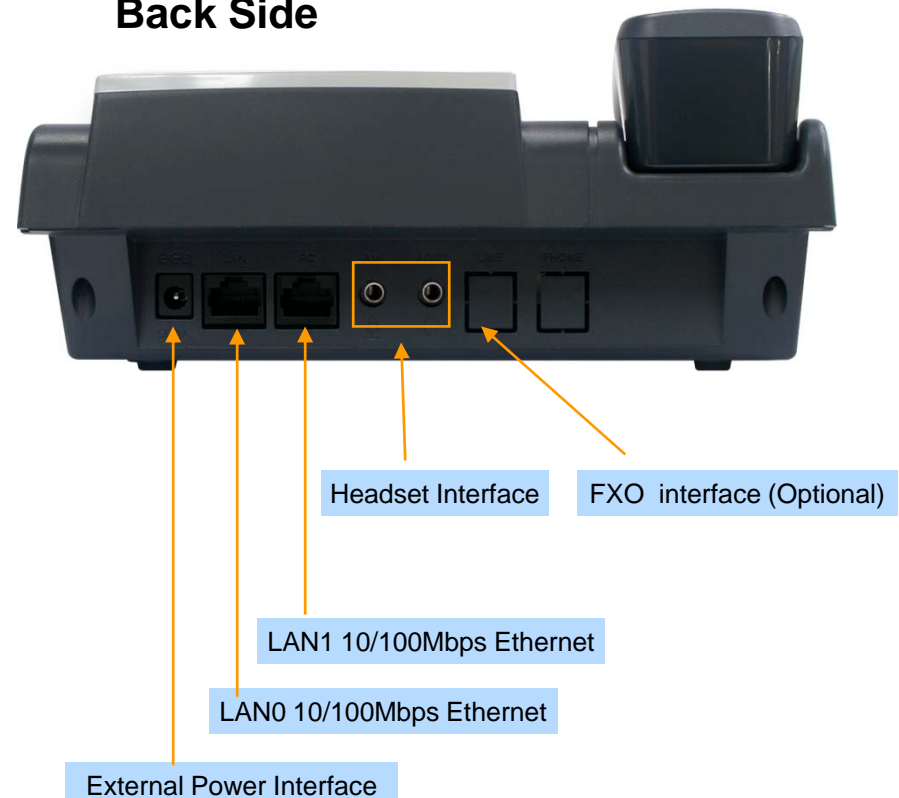
RTSP Streaming Service

RTSP Streaming Service Overview

- RTSP based Full HD/HD/D1 Streaming Service
- RTSP Server & Client Architecture
- TCP/UDP Protocol Support
- HD Video Encoder, HD Video Decoder, HD Storage Server, HD Display Server RTSP based Interworking
- HD Video Bit-Stream Input
- HD Video Bit-Stream Output
- Load Balance using RTSP Redirect Service
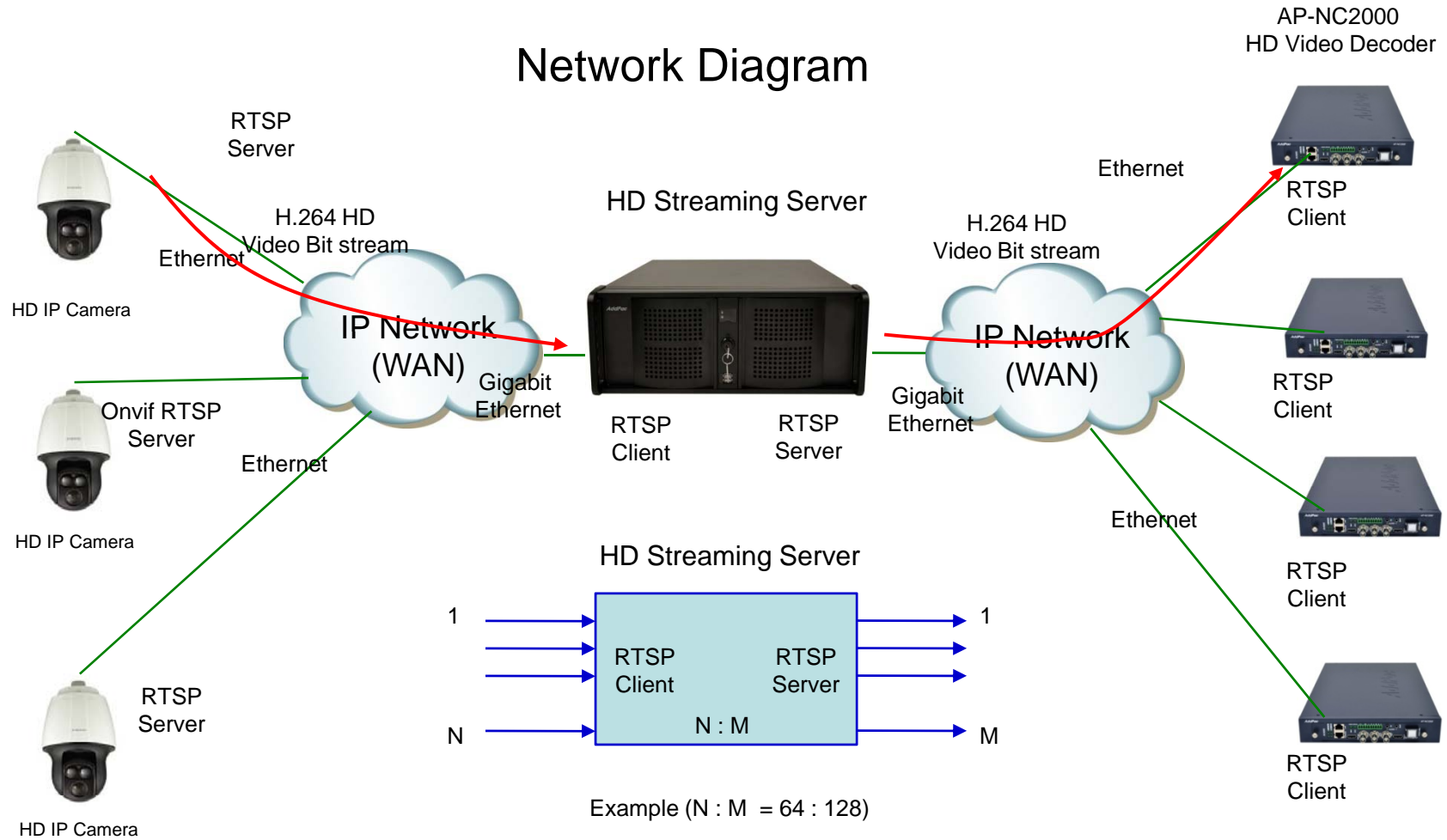- IP based Network Protocol Support

RTSP based Streaming Service Diagram

Network Diagram

AP-NC2000
HD Video Decoder

RTSP Server

HD Streaming Server

H.264 HD
Video Bit stream

Ethernet

HD IP Camera

Ethernet

RTSP Client

H.264 HD
Video Bit stream

Ethernet

RTSP Client

IP Network
(WAN)

Gigabit
Ethernet

RTSP Client

RTSP Server

IP Network
(WAN)

Gigabit
Ethernet

RTSP Client

Onvif RTSP
Server

Ethernet

HD IP Camera

RTSP Client

Ethernet

RTSP Client

RTSP Server

HD IP Camera

HD Streaming Server

1

N

RTSP
Client

RTSP
Server

N : M

1

M

Example (N : M = 64 : 128)

RTSP Client

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Network Service and Features

- **RTSP (Real Time Streaming Protocol)**
  - TCP transport
  - Session Description Protocol (SDP)

- **Load balance**
  - 302 Moved Temporarily
  - REDIRECT method (Optional, when the client support REDIECT)

- **Video and Audio Support**
  - Video Only
  - Audio Only
  - Video + Audio

Standard Application Diagram

Onvif

AP-EIP70
IP Emergency Phone

AP1605L
Paging Terminal

Integrated Security Management System
(AP-ISMS200)

Speaker

HD IP Camera   H.264 HD
Video Bit stream

Ethernet

AP-ISMS200-M

AP1605L
Paging Terminal

HD IP Camera

**IP Network
(WAN)**

**IP Network
(LAN)**

Ethernet   Ethernet

Gigabit
Ethernet

Ethernet

AP-ISMS200-R+
NAS Storage Server

Speaker

AP-EIP70
IP Emergency Phone

AP-IP120
IP Phone

AP1605L
Paging Terminal

HDMI

Speaker

AP-HDI4N1
IP Quad Screen Video Splitter
Card

IP Video Wall Screen

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Integrated Security Management System Product Component for

Model	AP-ISMS200 Integrated Security Management System		
Service			
Onvif based NVR CCTV Service (Large Capacity, Storage Backup) + RTSP Streaming Service		AP-ISMS200-R (Recording + Streaming Service)	Linux Server + NAS Storage Server
Voice Paging Service for emergency, MAP based Security Management Service		AP-ISMS200-M (Management PC)	MS_Window
SIP Call Manager (Option) (AP-ACS1000)		AP-ISMS200-C (Call Manager)	APOS
SIP Emergency Intercom Service		AP-EIP70 SIP Intercom	APOS
		AP-IP120 IP Phone	

Ordering Information

- **AP-ISMS200 Integrated Security Management System**
  - AP-ISMS200 Main Body
  - Secondary Video Output Interface
  - Including Power Supply Cable, etc.
  - Option : Video Cable (HDMI, DVI)
  - Option : Hard Disk (2ea ~ 4ea)
- **Built-in APOS Internetworking Software for AP-ISMS200**
- **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

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Thank you!

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Sales and Marketing

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