

AP-ISMS200

Integrated Security Management System

High-performance Integrated Security Management System
Solution

Product Overview

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



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

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Product Overview

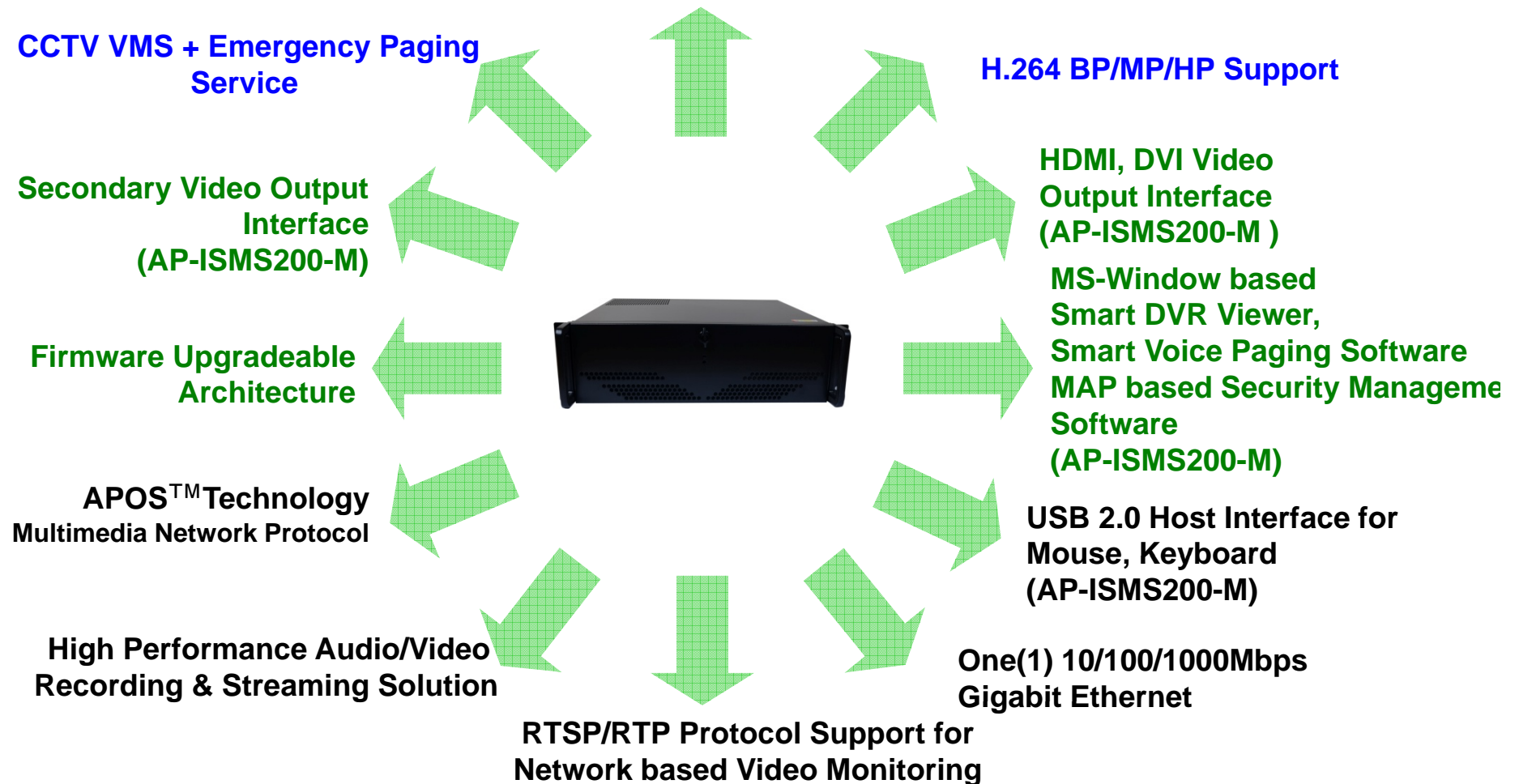
AP-ISMS200 Integrated Security Management System

- 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



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

Hardware Specification

AP-ISMS200 Integrated Security Management System

High End
Processor

Front Side
(AP-ISMS200-M)



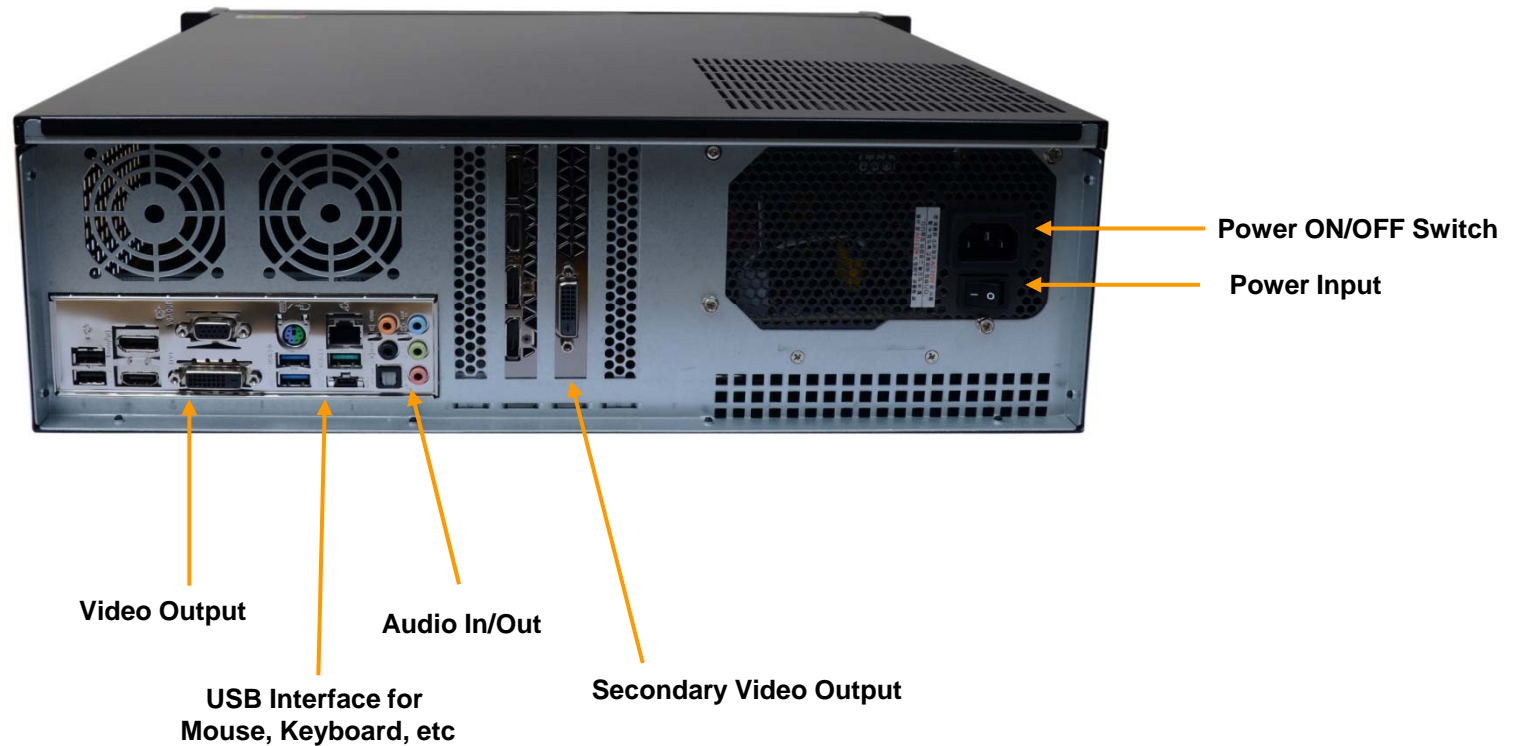
Cabinet Open Key

Hardware Specification

AP-ISMS200 Integrated Security Management System

High End Processor

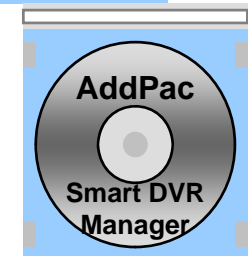
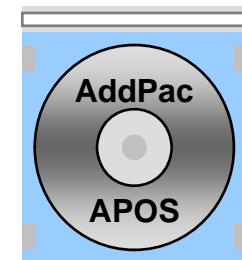
Back Side
(AP-ISMS200-M)



Software Service

AP-ISMS200 Integrated Security Management System

- 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





CCTV NVR Service

Smart DVR Viewer

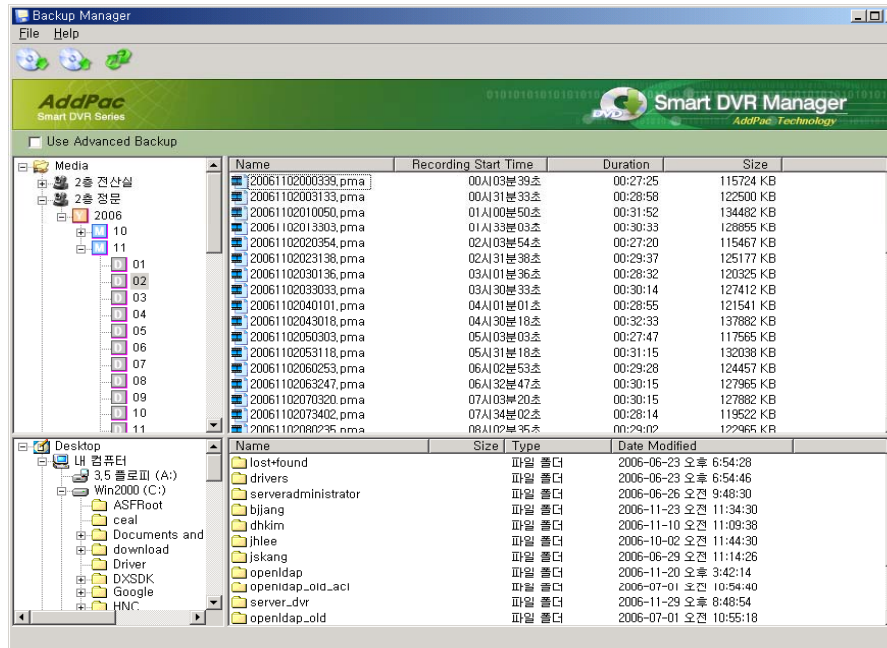
AP-ISMS200 Integrated Security Management System



- 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.

Smart DVR Backup Manager

AP-ISMS200 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

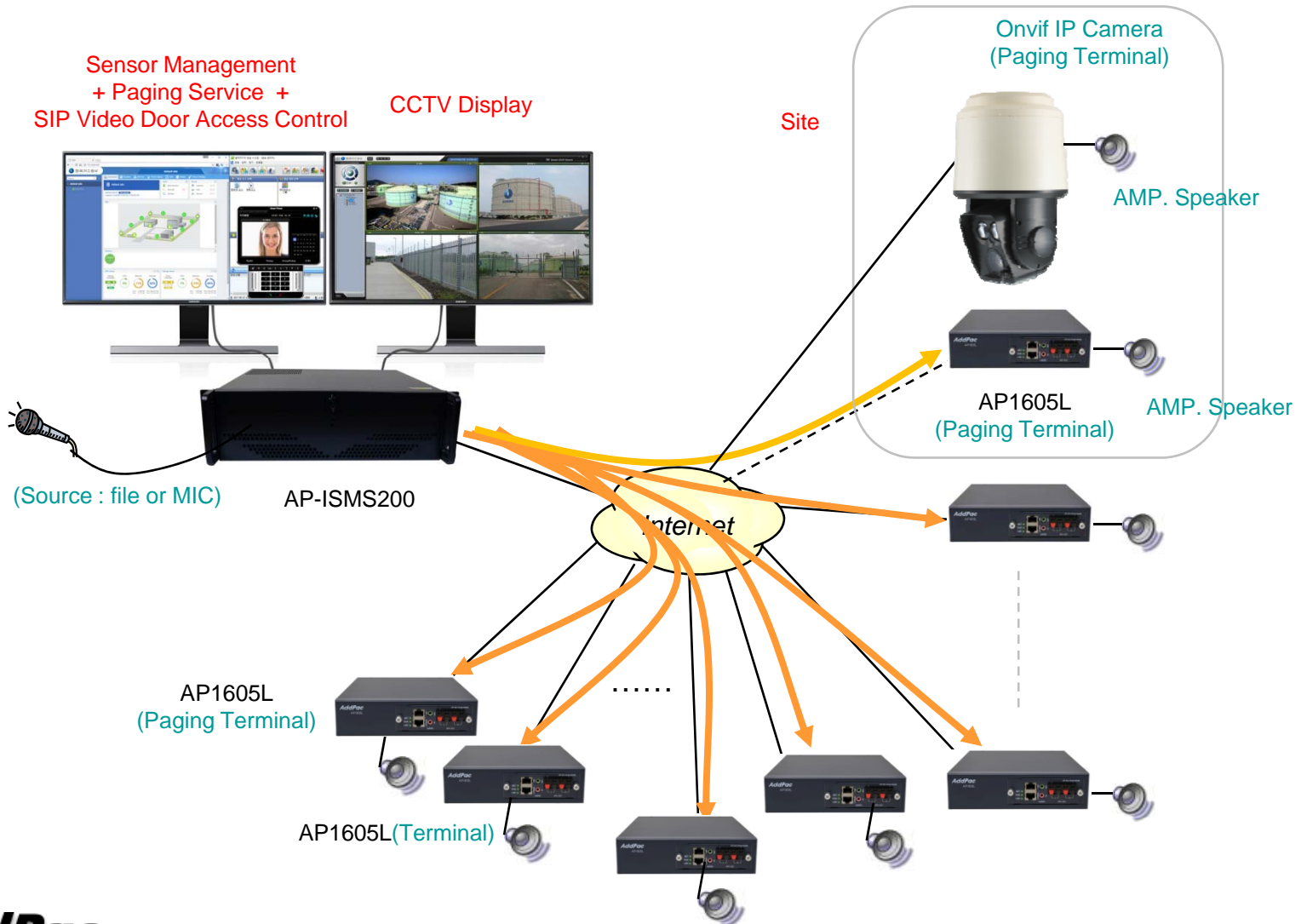


Emergency Paging Service

Contents

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

Network Configuration



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

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

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..

WBS GUI Initial Screen

Broadcasting Source

media_source nms broadcast video broadcast

Broadcasting Group

media_group multimedia team nms team

Broadcasting Session Status

Device Name	IP Address	Status
<input checked="" type="checkbox"/> media_server	172.17.101.247	No response
<input checked="" type="checkbox"/> media_group		
<input checked="" type="checkbox"/> vp200_hqiang	172.16.253.106	Broadcasting in ...

Favorites

Media Server broadcast

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting T.type	Start Time	Number of terminals bei...	Number of terminals fail...	Schedule Name	Broadcasting Time
Media Server broadca...	media_source	Video Broadcasting	2008-03-27 10:13:46	1	1		00:00:13

3/27/2008 10:13:59 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

Broadcasting Device Management

Device Properties

Device Name: media_server
 Description:
 IP Address: 172.17.101.247
 Device Model: AP3120
 Remote control of Broadcasting:
 Module Information:

Slot	Module
0 (Slot)	<N/A>
1 (Slot)	AP-AUDIO2

Ok Cancel

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting Type	Start Time	Number of terminals bei...	Number of terminals faile...	Schedule Name	Broadcasting Time
Media Server broadca...	media_source	Video Broadcasting	2008-03-27 10:13:46	1	1		00:03:09

3/27/2008 10:16:57 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

Broadcasting Group Management

Group Properties

Group Name:

Description:

Setup for Amplifier

Amplifier 1

Amplifier 2

Amplifier 3

Add Device Add Group

Broadcasting Device List			
Device Name	IP Address	Module	Port Number
tandberg	172.16.19.100	AP-AV1000	(1/1) (1/0)
media_server	172.17.101.247	AP-AUDIO2	(1/0) (1/0)
media_server	172.17.101.247	AP-AUDIO2	(1/1) (1/1)
172.16.41.11	172.16.41.11	AP-VP300	(0/1) (0/0)
NMS_VP300	172.16.16.30	AP-VP300	(0/1) (0/0)
vp200_meeting_ro...	172.17.201.108	AP-VP300	(0/1) (0/0)
vp200_hgjang	172.16.253.106	AP-VP300	(0/1) (0/0)
phone_jschoi	172.16.19.101	AP-VP300	(0/1) (0/0)
VP200_phkwon	172.16.40.30	AP-VP300	(0/1) (0/0)

Broadcasting device included in the group		
Device Name	IP Address	Port Number
172.16.41.11	172.16.41.11	(0/1) (0/0)

Ok Cancel

3/27/2008 10:18:54 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin [administrator]

User Management

The screenshot shows the 'User Properties' dialog box in the Multimedia Broadcasting Management System. The dialog has two tabs: 'User Management' and 'Permitting User Access Management'. The 'User Management' tab is active and contains a table with the following data:

User ID	User Name	Description	Connect Status
root	administrator	super user	127.0.0.1

Below the table, there are input fields for 'User ID', 'Password', 'User Name', 'Description', 'Access Authority' (a dropdown menu), and 'Number of Maximum Acc'. At the bottom of the dialog are buttons for 'Add', 'Modify', 'Delete', and 'Save'. The background application window shows a menu bar (Broadcasting, Management, View, Help), a toolbar with various icons, and a main area with three panes: 'Broadcasting Source', 'Broadcasting Group', and 'Broadcasting structure'. A 'Favorites' section is also visible on the left. The status bar at the bottom of the application window displays the date and time (3/27/2008 10:18:54 AM), version (ver 1.2.2965.20959), IP address (127.0.0.1:8089), and the user name (Super Admin (administrator)).

Reserved Broadcasting Management

The screenshot displays the 'Multimedia Broadcasting System - [Reservation of Broadcasting Management]' application window. The main interface includes a menu bar (Broadcasting, Management, View, Help), a toolbar with various icons, and a central table for managing broadcast schedules. A 'Schedule Properties' dialog box is open, allowing for the configuration of a specific broadcast.

Schedule Name	Broadcasting ...	Start Time
Morning Broadcasting	General	10:21:27

Schedule Properties

Selecting Broadcasting: **Media Server broadcast**

Schedule Name:

Description:

Scheduled Broadcasting: General Time Information

Scheduling Method: Day Date

Select Day: Mon Tue Wed Thu Fri Sat Sun

Broadcasting Time

Start Time: 3/27/2008 10:22:16

End Time: 3/27/2008 10:22:16

Audio File:

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting Type
Media Server broadca...	media_source	Video Broadcasti...

3/27/2008 10:22:10 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)

TTS Broadcasting

The screenshot displays the 'Multimedia Broadcasting System - [Broadcasting Manager]' interface. The main window is titled 'TTS Broadcasting' and features a 'Favorites Name' dropdown menu set to 'Media Server broadcast'. Below this, there are two tabs: 'TTS' and 'TTS List'. The 'TTS' tab is active, showing a text area with the following content:

WASHINGTON (AFP) - The Pentagon on Wednesday said an eruption of violence in southern Iraq, where US-backed government forces were battling Shiite militias, was a "by-product of the success of the surge."

Pentagon press secretary Geoff Morrell said it showed that the Iraqi government and security forces were now confident enough to take the initiative against Shiite extremists in the southern port of Basra.

At the bottom of the 'TTS' tab, there is an 'Audio File Name' input field and a 'Start' button. A 'Close' button is located at the bottom right of the 'TTS' tab.

The 'TTS List' tab is also visible, showing a table with the following data:

IP Address	Status
nms team	172.16.41.11

The interface also includes a 'Broadcasting Source' section with icons for 'media_source', 'nms broadcast', and 'video broadcast'. A 'Favorites' section shows 'Media Server broadcast'. The 'Broadcasting Session' section at the bottom has columns for 'Broadcasting Name', 'Broadcasting Source', and 'Bro...'. The system tray at the bottom shows the date and time as '3/27/2008 10:18:54 AM', the version as 'ver 1.2.2965.20959', the IP address as '127.0.0.1:8089', and the user as 'Super Admin (administrator)'.



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)

The screenshot displays the 'Smart Security Manager' interface for 'Local Headquarters'. The interface includes a navigation sidebar on the left with options for 'Local Headquarters', 'Gangnam area', 'Seocho area', and 'Yeoksam area'. The main content area features a top navigation bar with 'Dashboard', 'Sections', 'Devices', 'Active Alarms', 'Task', 'History', 'Server Settings', and 'Section Settings'. Below this, there are summary cards for 'Local Headquarters' (showing user 'Root(Administrator)' and last login), 'Device' status (Camera: 0/10, Hub: 1/4, Sensor: 7/10), and 'Alarm' status (Door Access: -, Security: 1, System: 1). A table titled 'Active Alarm (21)' lists recent incidents:

Date Time	Level	Category	Section	Device	Message	Alarm ID
2017-03-02 15:43:09	Warning	System	Hardware Team	ZW Device	off-line	1547
2017-03-02 15:08:11	Warning	System	Hardware Team	Conference Siren	siren-on	1546
2017-03-02 14:27:56	Warning	System	Hardware Team	Light	off-line	1545

At the bottom, a map titled 'MAP #1' shows a floor plan with various security devices and their status indicated by icons (e.g., cameras, sensors, sirens).

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

The screenshot displays the 'Smart Security Manager' interface for 'Local Headquarters'. The dashboard includes a navigation menu on the left with options for 'Local Headquarters', 'Gangnam area', 'Seocho area', and 'Yeoksam area'. The main content area features a search bar, a navigation bar with tabs for 'Dashboard', 'Sections', 'Devices', 'Active Alarms', 'Task', 'History', 'Server Settings', and 'Section Settings', and a central panel with several widgets.

Local Headquarters
Root(Administrator)
Last login at June 06 10:37:20 AM(172.16.63.150)

Device

Camera	0/10
Hub	1/4
Sensor	7/10

Alarm

Door Access	-
Security	1
System	1

Active Alarm (21)

Date Time	Level	Category	Section	Device	Message	Alarm ID
2017-03-02 15:43:09	Warning	System	Hardware Team	ZW Device	off-line	1547
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2017-03-02 14:27:56	Warning	System	Hardware Team	Light	off-line	1545

MAP #1 and **MAP #2** show two map views with various security icons and a red alarm icon.

NAS (Network-Attached Storage)

Master

CPU	Memory	Storage
25%	50%	15%

Total : 4,096 MB Free : 3,072 MB
Total : 256,000 MB Free : 251,520 MB

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

The screenshot displays the 'Smart Security Manager' interface for 'Local Headquarters'. The interface includes a navigation menu on the left with options for 'Local Headquarters', 'Gangnam area', 'Seocho area', and 'Yeoksam area'. The main dashboard features several key components:

- Local Headquarters Summary:** Shows the user 'Root(Administrator)' with a last login time of 'June 06 10:37:20 AM(172.16.63.150)'. It also displays counts for 'Device' (Camera: 0/10, Hub: 1/4, Sensor: 7/10) and 'Alarm' (Door Access: -, Security: 1, System: 1).
- Active Alarm (21):** A table listing recent alarm events.
- MAP #1 and MAP #2:** Two satellite maps showing the physical layout of the headquarters with various security icons overlaid.
- NAS (Network-Attached Storage) Status:** A section for 'Master' storage showing CPU (25%), Memory (50%), and Storage (15%) usage. It also indicates 'Active' status and provides total and free space information for both Master and Slave units.

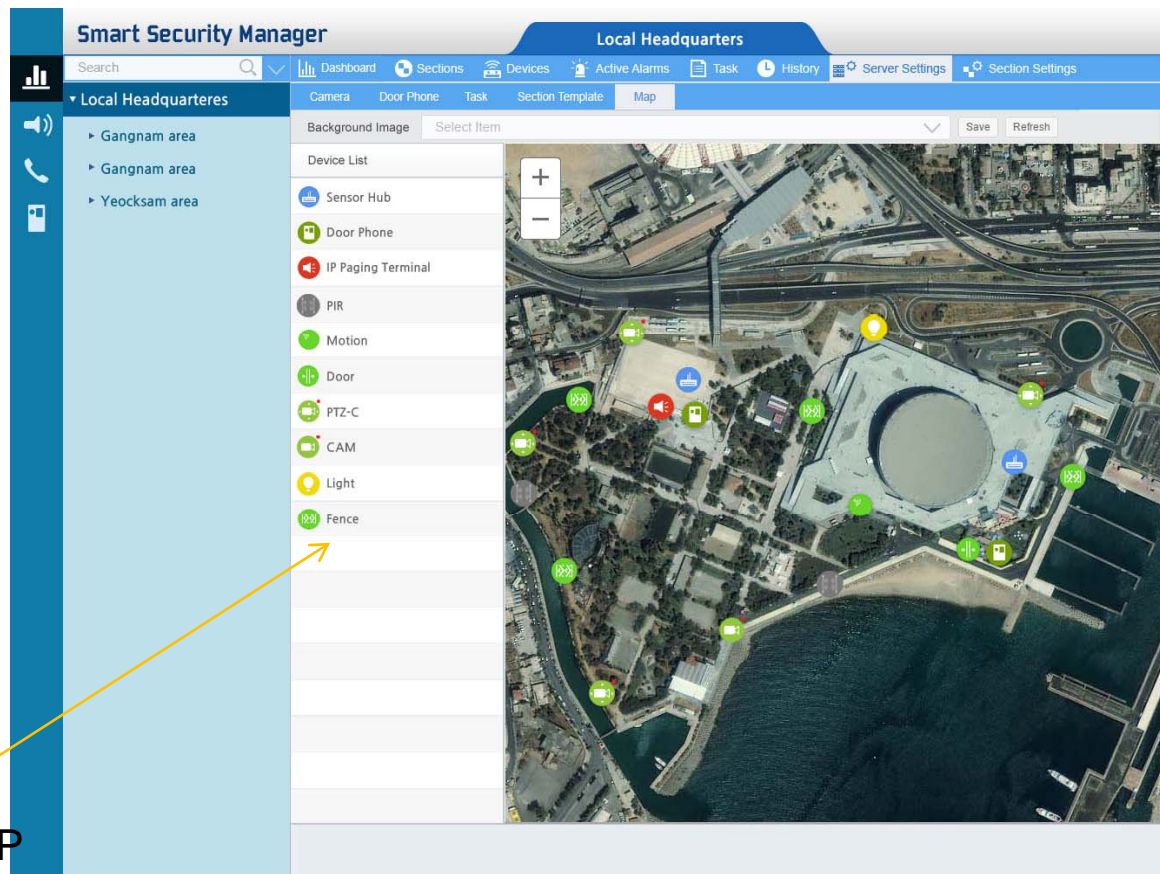
Date Time	Level	Category	Section	Device	Message	Alarm ID
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2017-03-02 14:27:56	Warning	System	Hardware Team	Light	off-line	1545

Metric	Value
CPU	25%
Memory	50%
Storage	15%

Master Status: Active

Total : 4,096 MB Total : 256,000 MB
Free : 3,072 MB Free : 251,520 MB

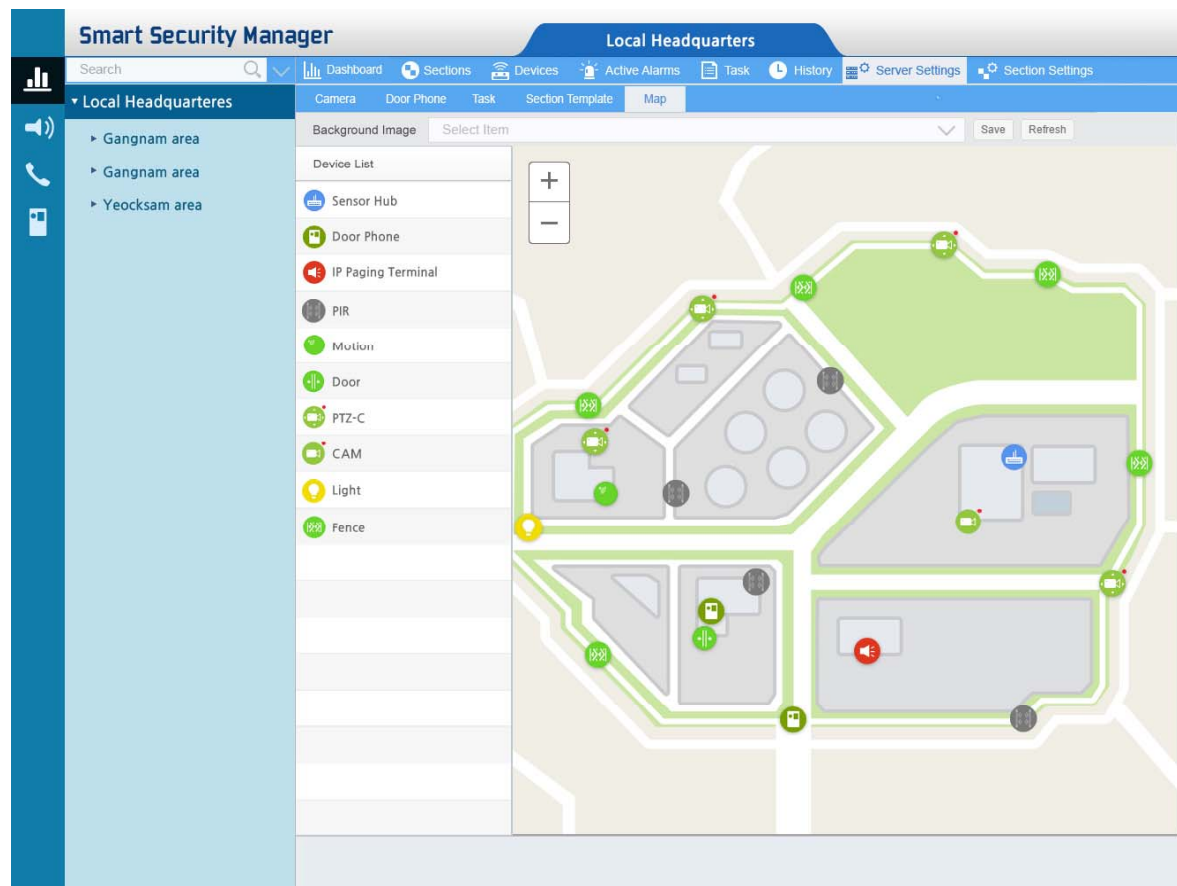
MAP based Integrated Security Management Service Overview (MAP Editor Service)




Device Lists : IP camera, IP paging terminal etc

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MAP based Integrated Security Management Service Overview (MAP Editor Service)





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

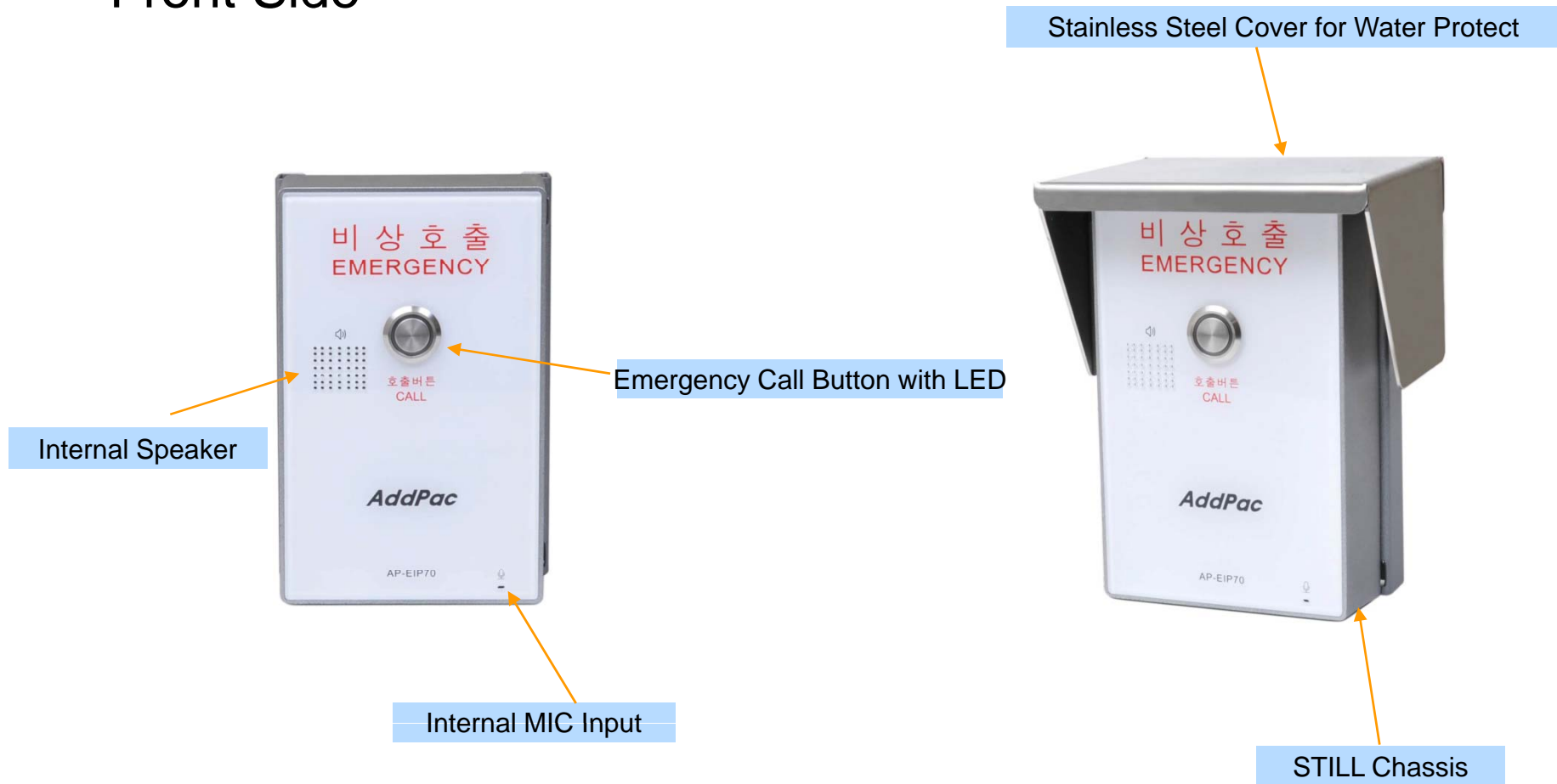
AP-EIP70 Emergency IP Phone

- 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)

Hardware Specification

AP-EIP70 Emergency IP Phone

Front Side



Hardware Specification

AP-EIP70 Emergency IP Phone

Back Side



Backside Wall Mount Bracket

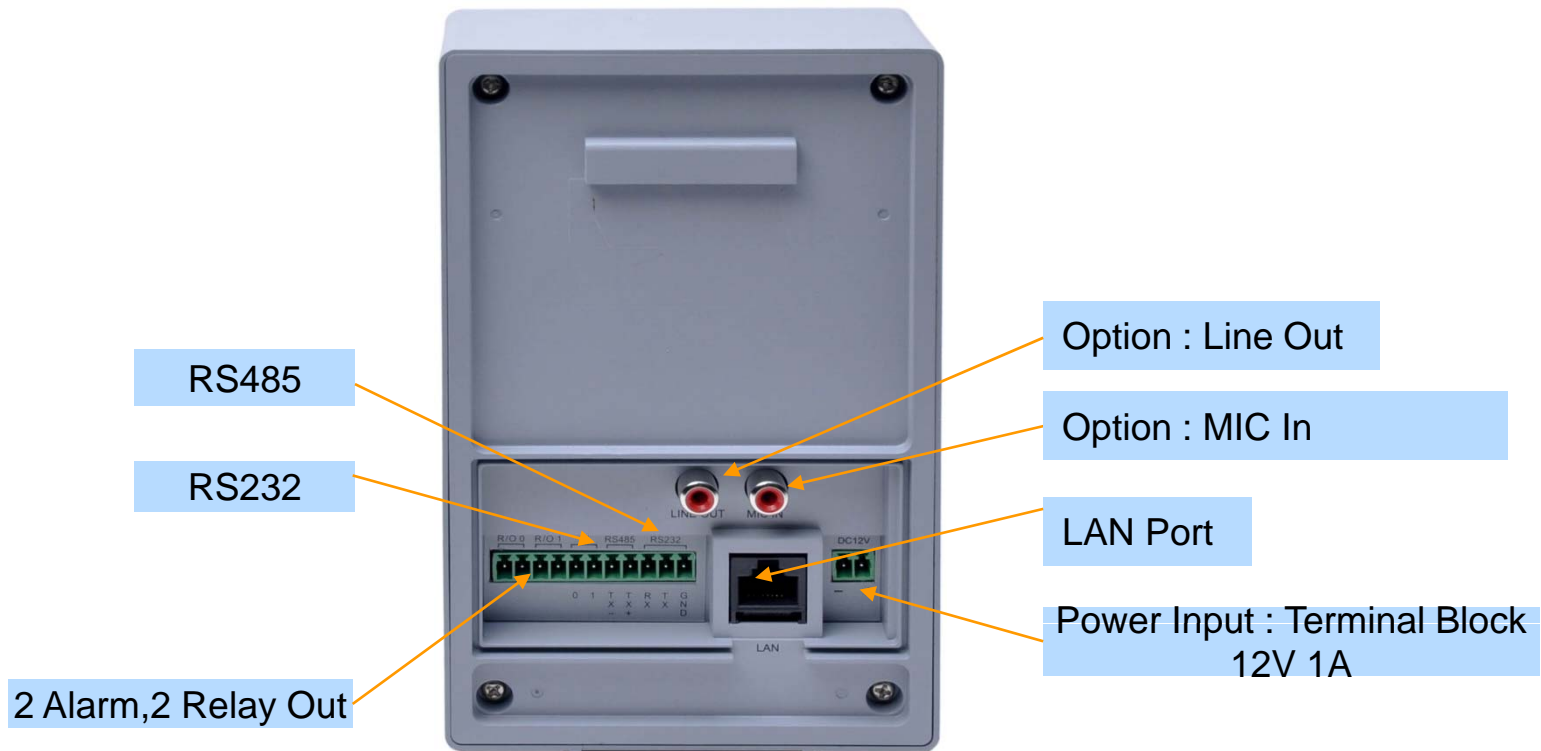


Rubber Cover for Water Protect

Hardware Specification

AP-EIP70 Emergency IP Phone

Back Side



IP Phone (AP-IP120)



Product Overview

AP-IP120 IP Phone

- 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

Hardware Specification

AP-IP120 IP Phone

- 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)

Hardware Specification

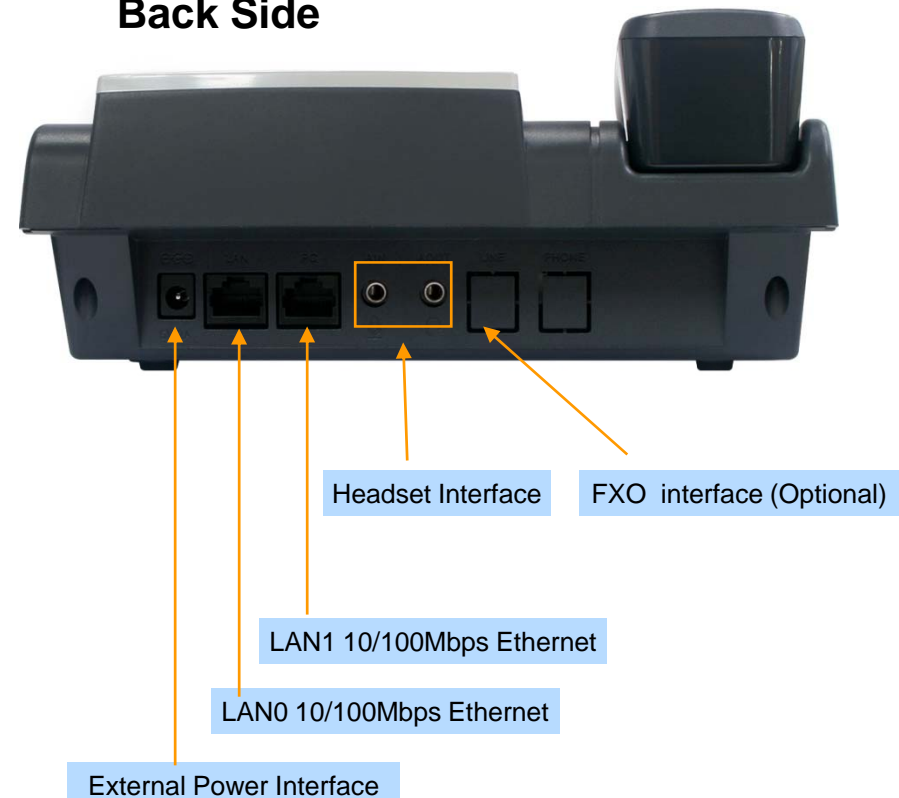
AP-IP120 IP Phone

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	0°C ~ 45°C (32 °F ~ 122°F)
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
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





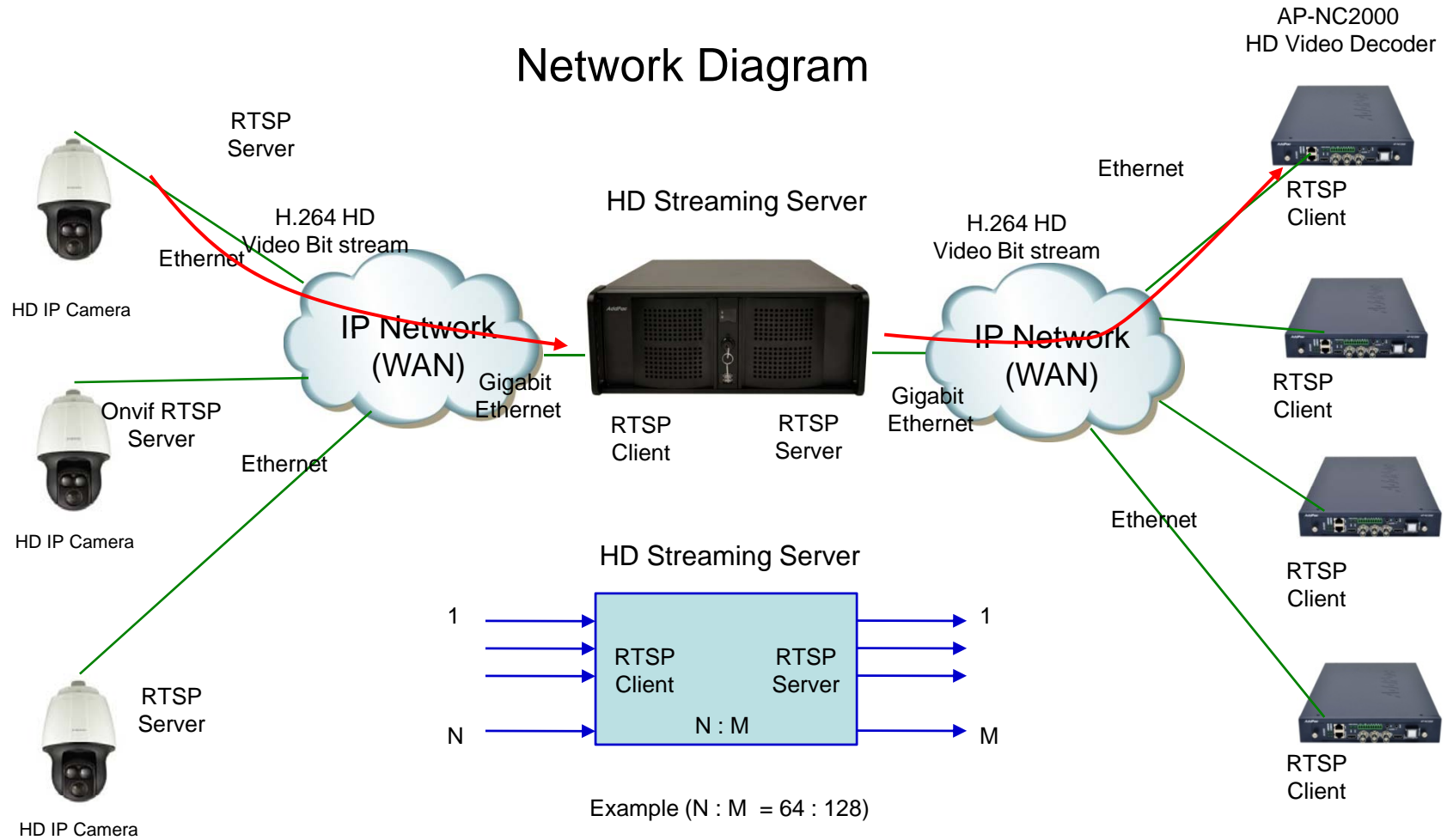
RTSP Streaming Service

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

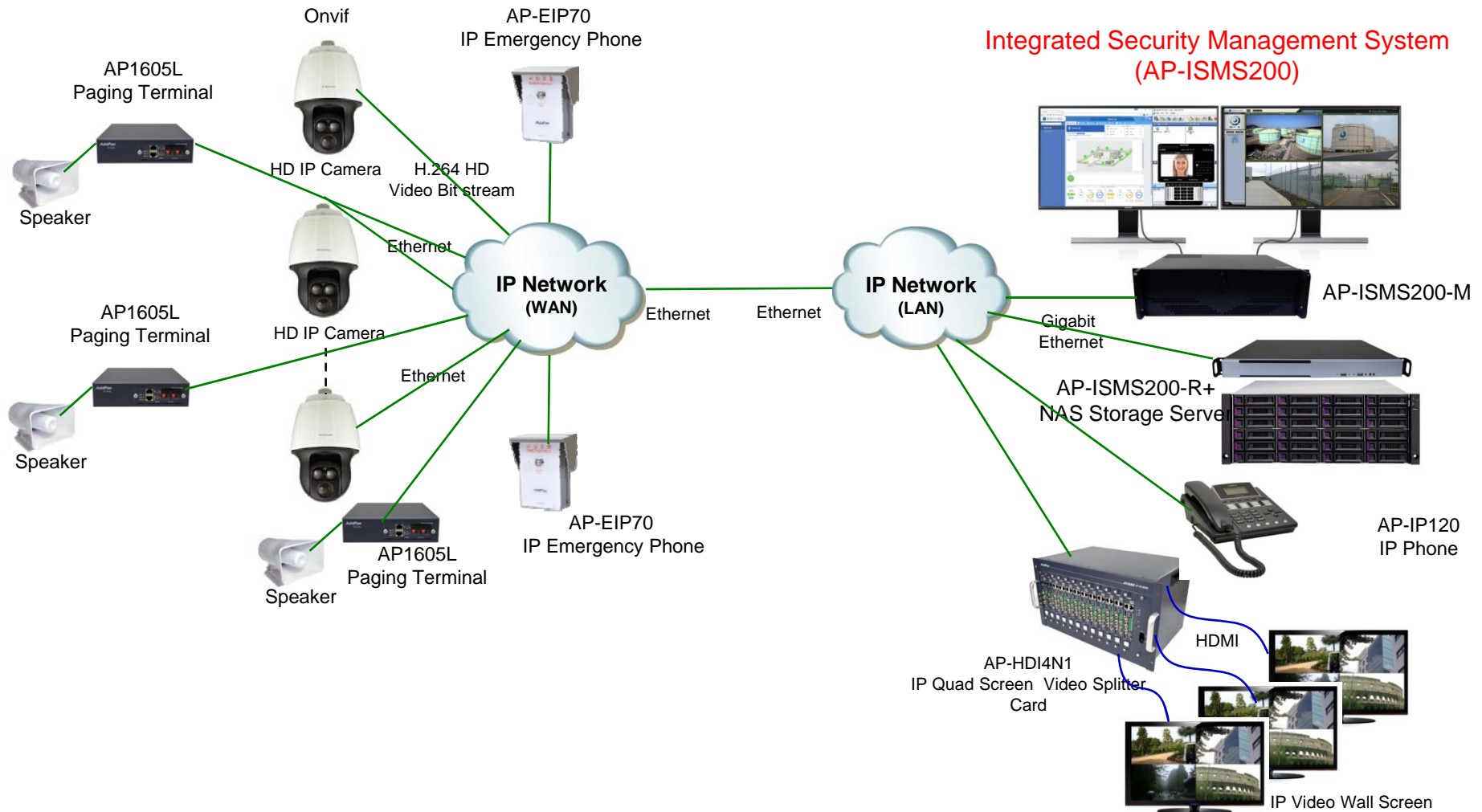
Network Diagram









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

Standard Application Diagram



Integrated Security Management System Product Component for Regional Command Center

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



Thank you!

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