AP-VBT1000S

SD IP Video Broadcasting Terminal

Next Generation IP based SD IP Video Broadcasting Terminal Solution

Preliminary Product Overview

AddPac Technology

2011, Sales and Marketing

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AP-VBT1000S SD IP Video Broadcasting Terminal

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- Ordering Information

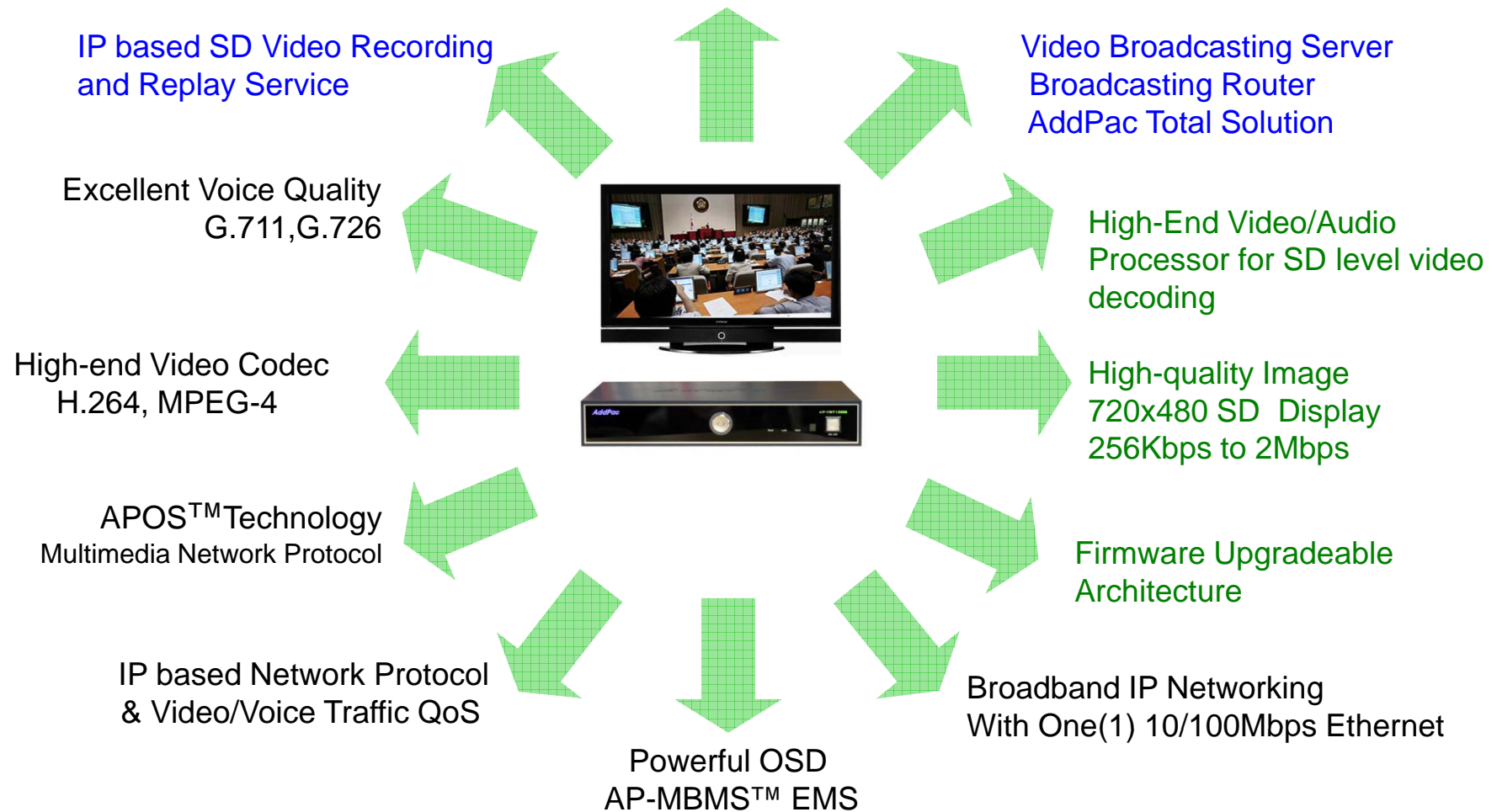**AddPac**

Product Overview

AP-VBT1000S SD IP Video Broadcasting Terminal

- IP based Audio/Video Broadcasting Solution
- Video on Demand Service Solution
- IP based Video Recording and Video Replay Solution
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
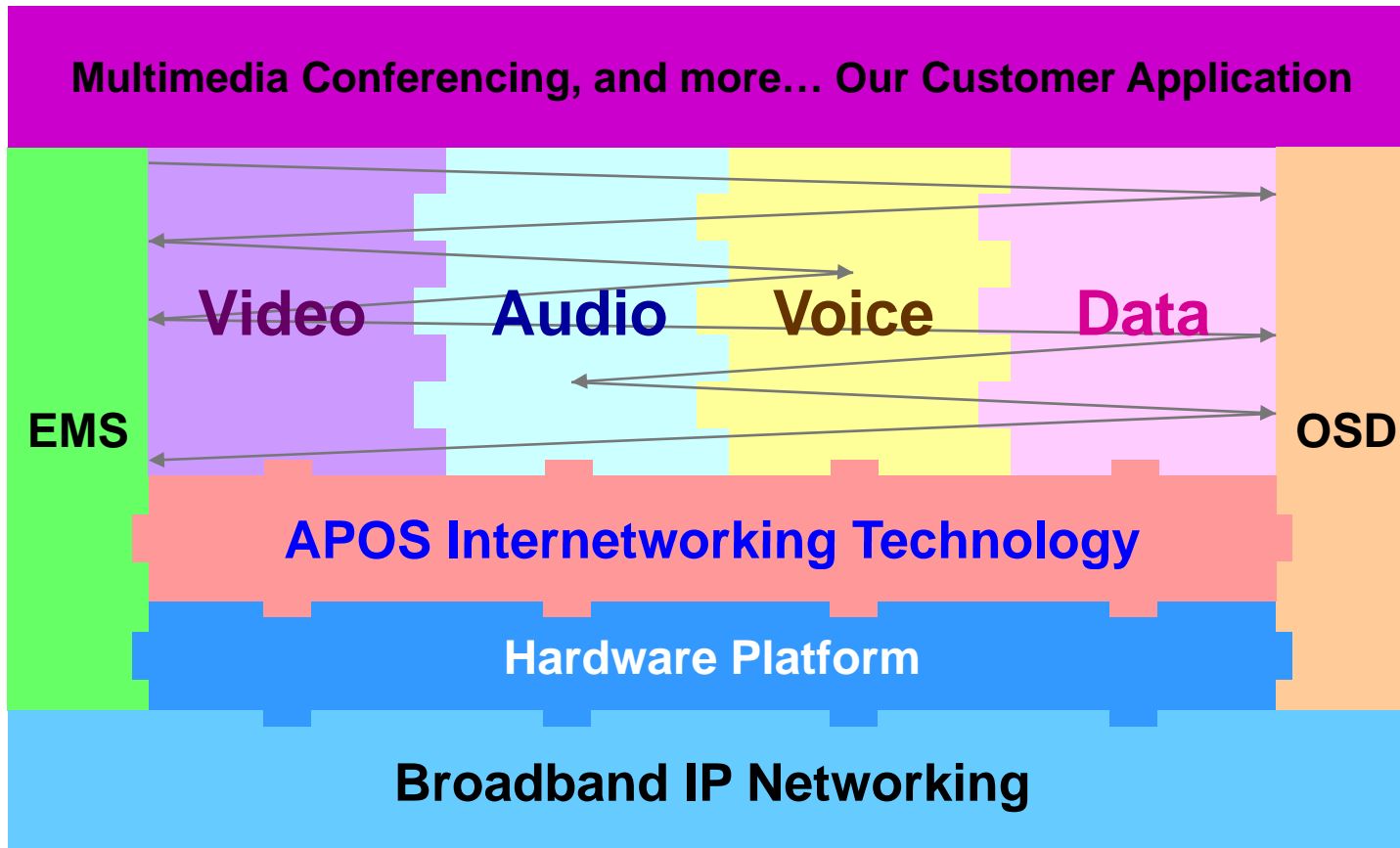- Audio/Video Privacy Protection

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Product Highlights

AP-VBT1000S SD IP Video Broadcasting Terminal

IP based SD Video Broadcasting Terminal

IP based SD Video Recording and Replay Service

Video Broadcasting Server
Broadcasting Router
AddPac Total Solution

Excellent Voice Quality
G.711,G.726

High-End Video/Audio Processor for SD level video decoding

High-end Video Codec
H.264, MPEG-4

High-quality Image
720x480 SD Display
256Kbps to 2Mbps

APOS™Technology
Multimedia Network Protocol

Firmware Upgradeable Architecture

IP based Network Protocol
& Video/Voice Traffic QoS

Broadband IP Networking
With One(1) 10/100Mbps Ethernet

Powerful OSD
AP-MBMS™ EMS

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Multimedia Service

AP-VBT1000S SD IP Video Broadcasting Terminal

Multimedia Conferencing, and more… Our Customer Application

Video   **Audio**   **Voice**   **Data**

EMS

OSD

APOS Internetworking Technology

Hardware Platform

Broadband IP Networking

- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS : Element Management System

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Benefits and Features

AP-VBT1000S SD IP Video Broadcasting Terminal

- **High Quality Images up to 256kbps and 2Mbps**
- **High-performance Audio & Video Codec Support**
  - H.264, MPEG-4 Video Codec
  - Line IN/OUT : G.726, G.711, etc, Audio Codec
- **Up to 30 frame/sec, 720x480 D1 Resolution**
- **RTP based Real-Time SD Broadcasting Service**
- HD Video Recording and Replay Service using Local HDD (Option)
- **IP based Network Protocol Support**
- **Video Application**
  - Audio & Video Broadcasting Solution
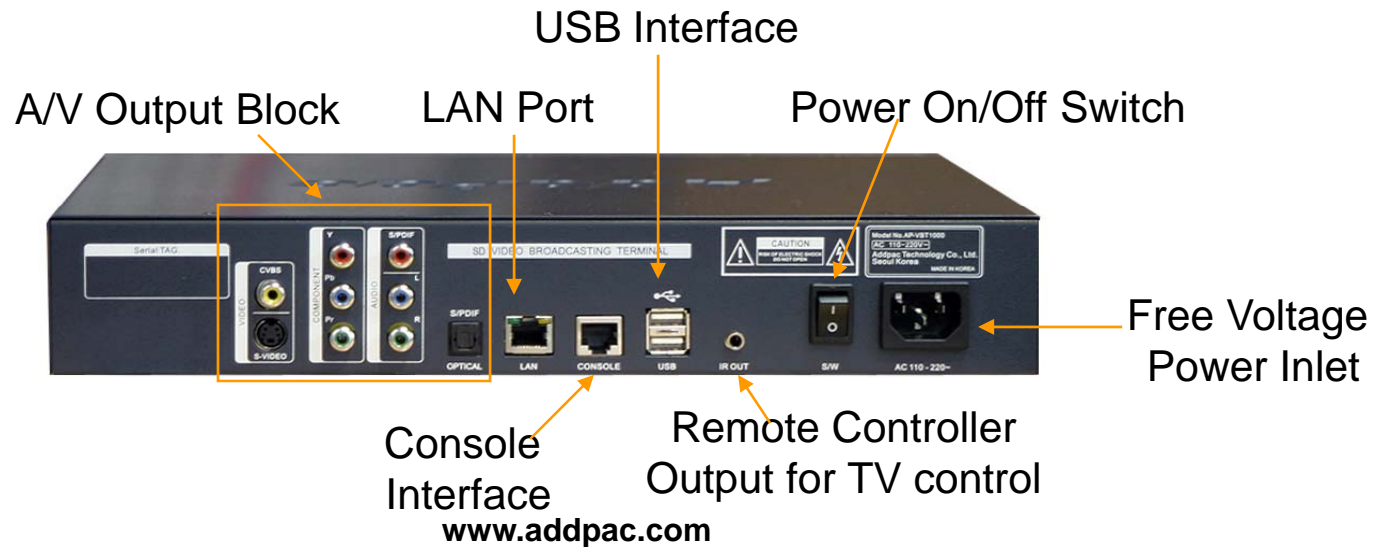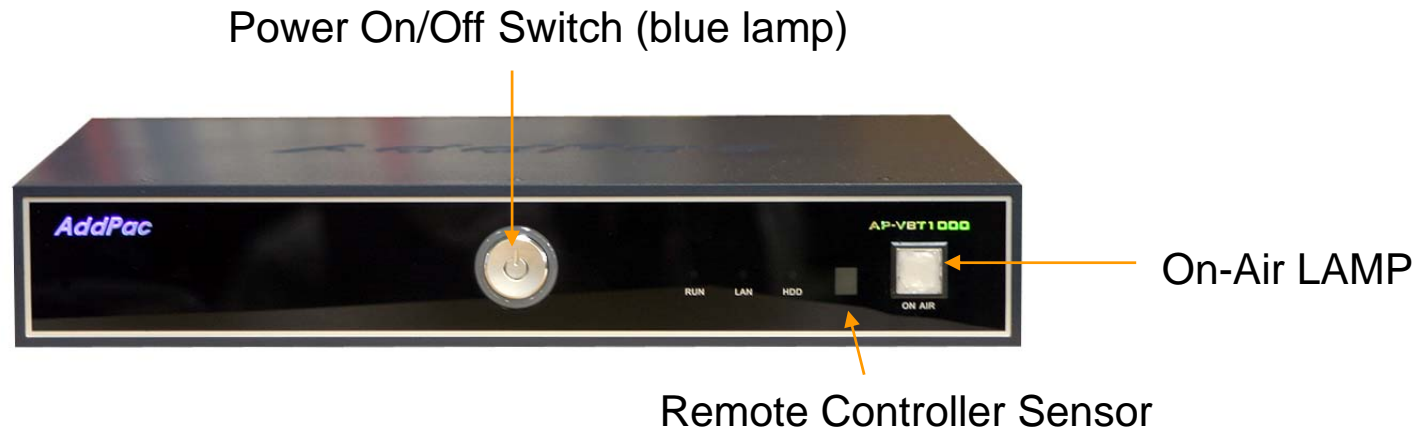 - Video on Demand Service Solution

Hardware Specification

AP-VBT1000S SD IP Video Broadcasting Terminal

- **High-End Audio/Video Processor**
- **Main Chassis**
  - **Power On/Off Switch (Front Panel)**
  - **Remote Controller Sensor (Front Panel)**
  - **On-AIR Indication LAMP (Front Panel)**
  - **Network Interface**
    - Two(2) 10/100Mbps Fast Ethernet
    - Two(2) USB 2.0 Interface
    - One(1) RS-232C Console (RJ45)
    - IR-Out Interface for External TV Control
  - **Powerful Video Interface**
    - S-Video, Component Output
  - **High quality Audio and Voice Interface**
    - Stereo Audio Output Connector
   - S/PDIF RCA Interface
    - S/PDIF Optical Interface

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Hardware Specification

AP-VBT1000S SD IP Video Broadcasting Terminal

Power On/Off Switch (blue lamp)

On-Air LAMP

Remote Controller Sensor

USB Interface

A/V Output Block   LAN Port   Power On/Off Switch

Free Voltage
Power Inlet

Console
Interface

Remote Controller
Output for TV control

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Software Service

- **Built-in AddPac APOS Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Video Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
  - Video Codec, Audio, and Voice Codec
- **Firmware Upgradeable DSP Architecture**
- **OSD (On-screen Display) Function Support**
- **Industry Standard IP based Network Protocol Features**
- **AP-MBMS (Multi-media Broadcasting Management System) Solution**
  - Server and Client Architecture
  - JAVA based EMS Solution
  - Broadcast Status Monitoring, Scheduling, Login Management, and Remote System Management Support
  - Intel Pentium Machine with MS Window Server OS and MS-SQL
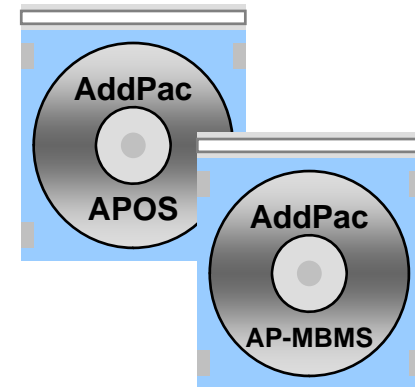
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Video Service and Features

- **High-performance Video Codec Support**
  - H.264, MPEG-4

- **Powerful Image Resolution Support**
  - SD(720x480)

- **Up to 30fps at HD-Resolution (H.264)**

- **256Kbps to 2Mbps Operating Video Traffic Bandwidth**

- **Video Buffer Control for Video Traffic QoS**

  - Ensuring Optimized Quality

  - Frame Rate with Limited Bandwidth

- RTP/UDP based Real-time Video Broadcasting Service

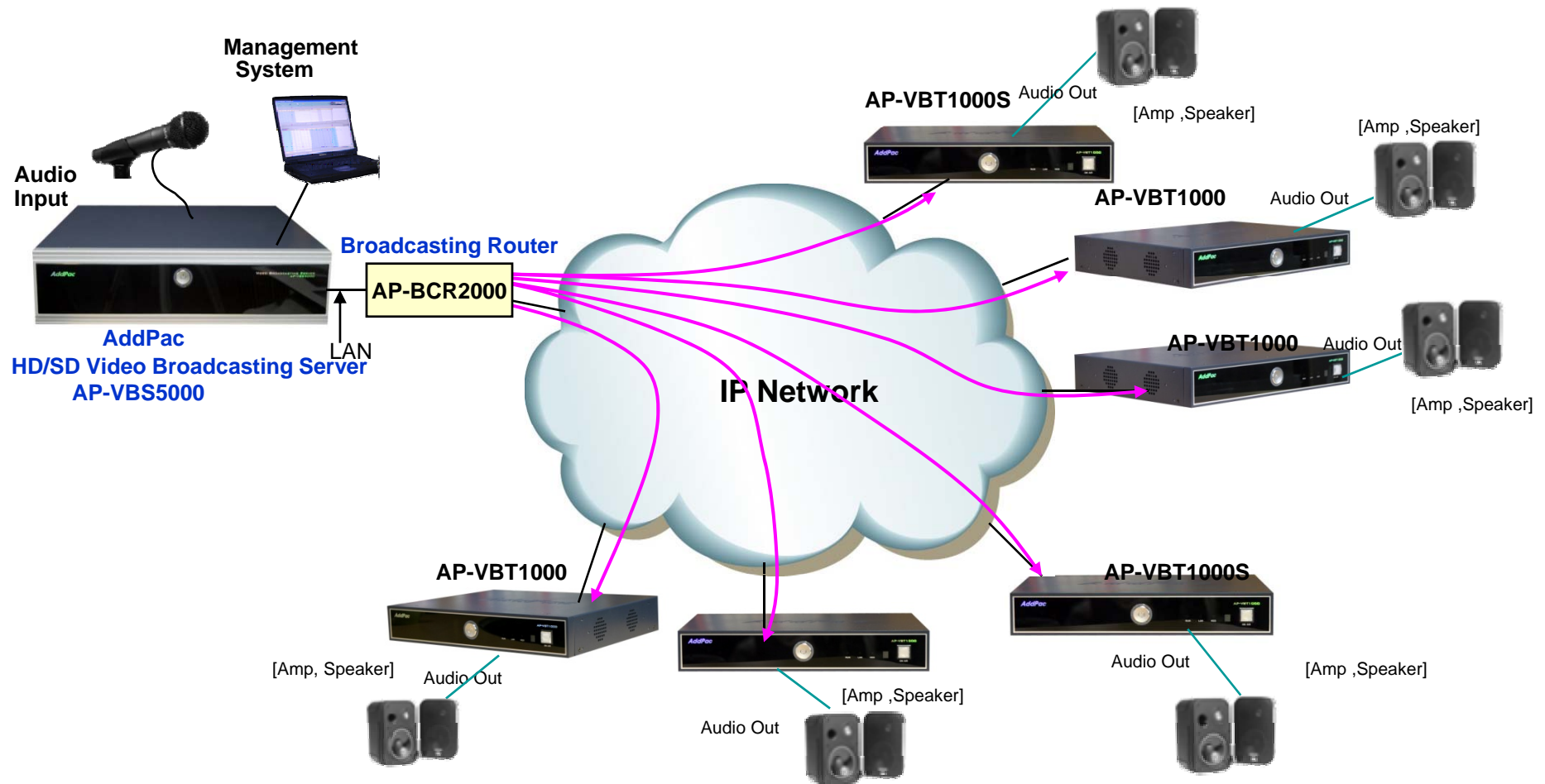# AP-VBT1000S SD IP Video Broadcasting Terminal
Application Area

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

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Audio Real-time Broadcasting
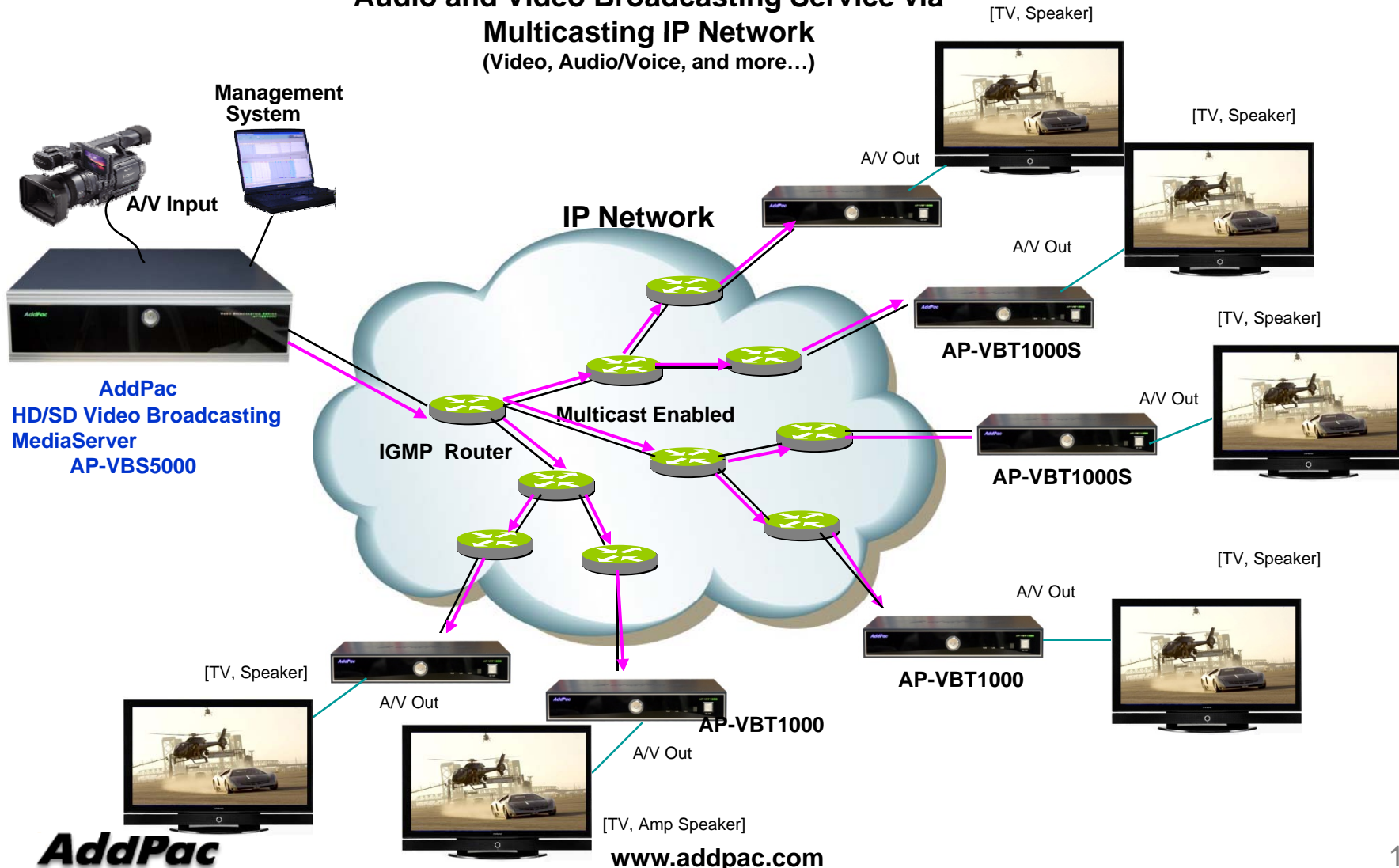
AP-VBT1000S SD IP Video Broadcasting Terminal

Audio Broadcasting Service via IP Network

Audio/Video Real-time Broadcasting

AP-VBT1000S SD IP Video Broadcasting Terminal

Audio and Video Broadcasting Service via Multicasting IP Network
(Video, Audio/Voice, and more…)

Management System

A/V Input

AddPac
HD/SD Video Broadcasting MediaServer
AP-VBS5000

IP Network

IGMP Router

Multicast Enabled

[TV, Speaker]

[TV, Speaker]

A/V Out

A/V Out

AP-VBT1000S

[TV, Speaker]

A/V Out

AP-VBT1000S

[TV, Speaker]

A/V Out

AP-VBT1000

[TV, Speaker]

A/V Out

AP-VBT1000

A/V Out

[TV, Amp Speaker]

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Audio/Video Real-time Broadcasting
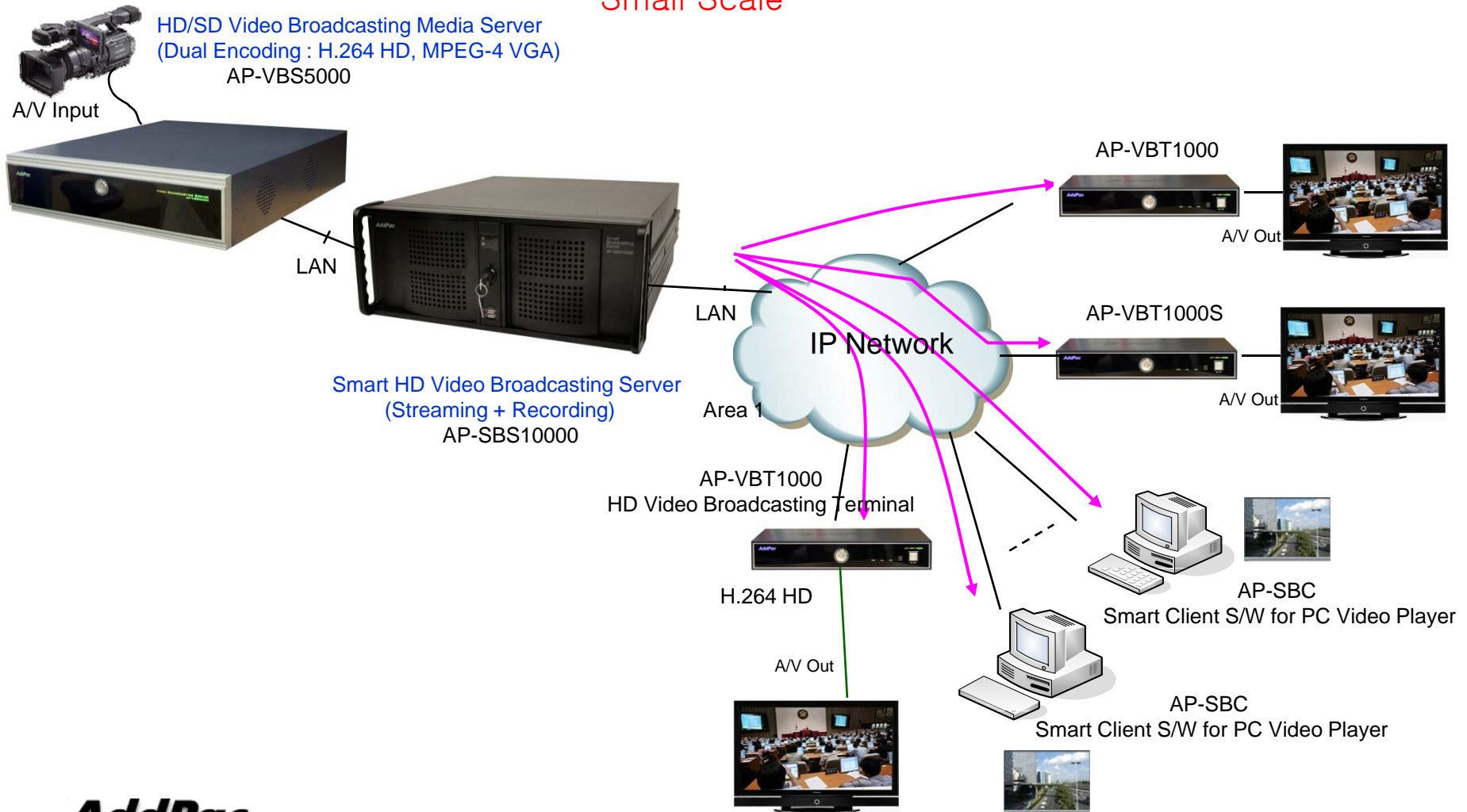## AP-VBT1000S SD IP Video Broadcasting Terminal

Audio and Voice Broadcasting Service via Unicasting IP Network
(Video, Audio/Voice, and more…)

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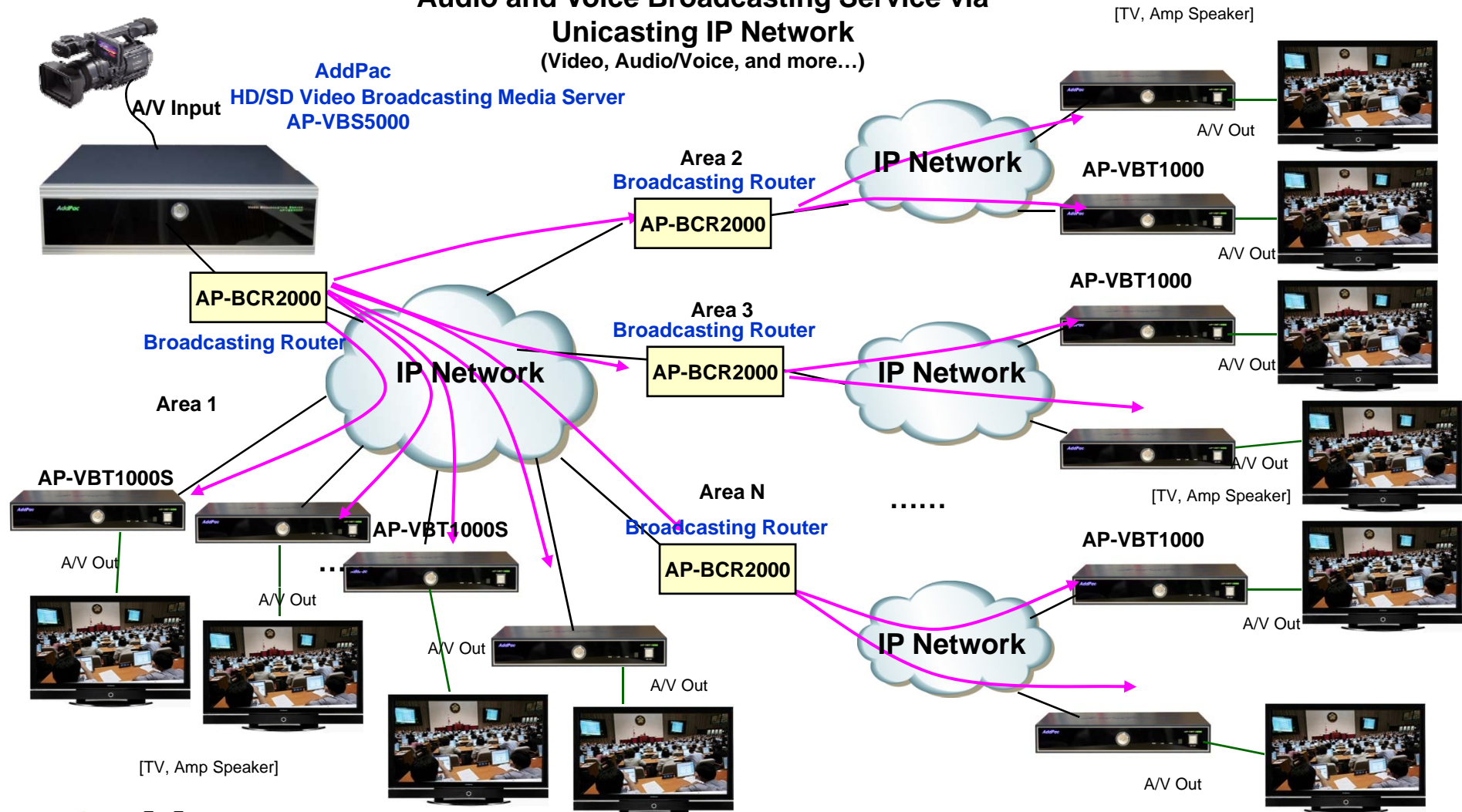
Video on Demand Service
AP-VBT1000S SD IP Video Broadcasting Terminal

Small Scale

HD/SD Video Broadcasting Media Server
(Dual Encoding : H.264 HD, MPEG-4 VGA)
AP-VBS5000

A/V Input

LAN

LAN

IP Network

Area 1

Smart HD Video Broadcasting Server
(Streaming + Recording)
AP-SBS10000

AP-VBT1000

A/V Out

AP-VBT1000S

A/V Out

AP-VBT1000
HD Video Broadcasting Terminal

H.264 HD

A/V Out

AP-SBC
Smart Client S/W for PC Video Player

AP-SBC
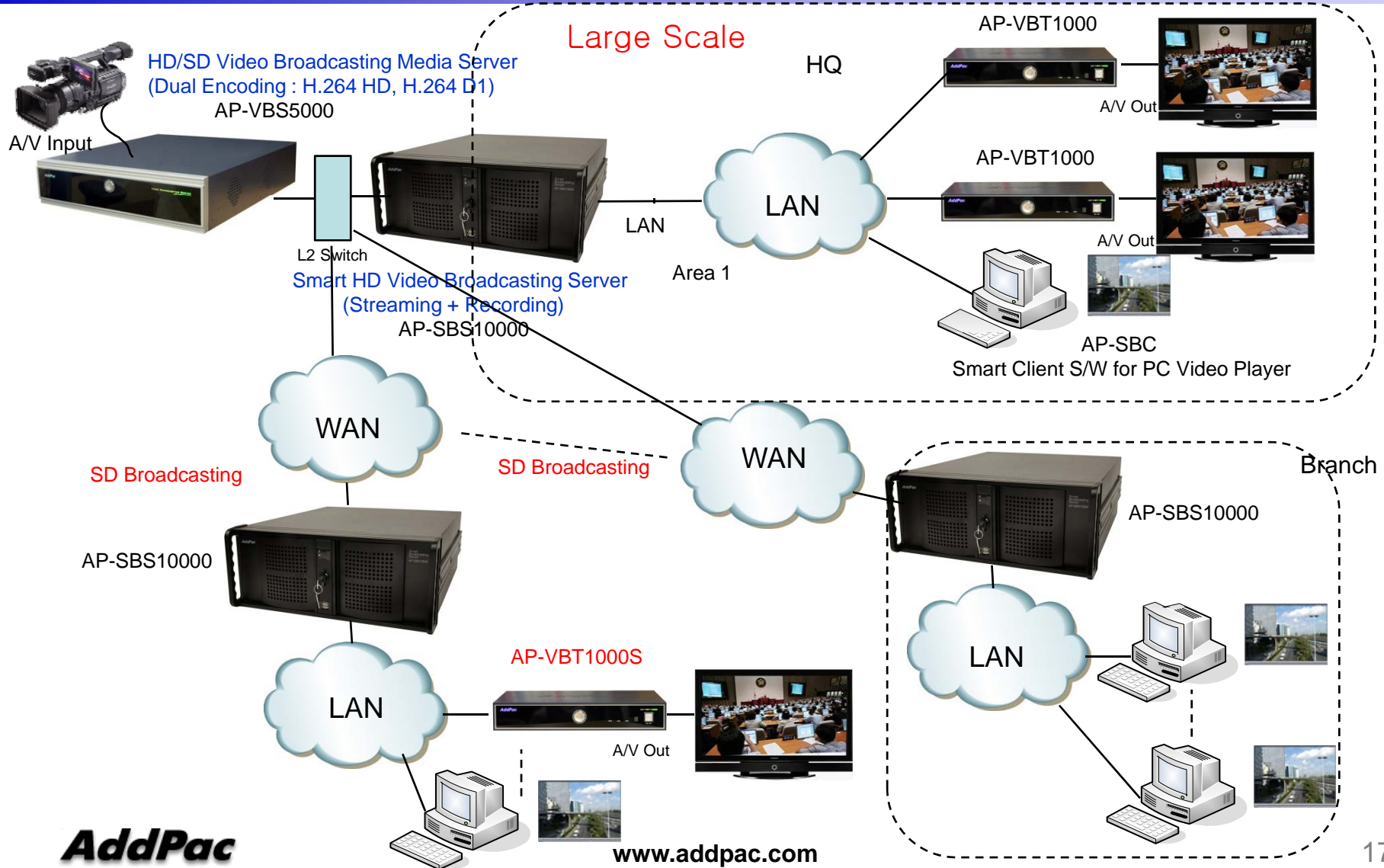Smart Client S/W for PC Video Player

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HD/SD IP Broadcasting Solution

- HD/SD Video Broadcasting Media Server : AP-VBS5000
- HD/SD Video Broadcasting Server : AP-SBS10000
- IP Broadcasting Router : AP-BCR2000
- HD Video Broadcasting Terminal : AP-VBT1000
- SD Video Broadcasting Terminal : AP-VBT1000S
- Video Broadcasting Monitoring Terminal: AP-VP500
- Video Broadcasting Terminals : AddPac Video Phones
- Network Service Diagram

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HD/SD IP Broadcasting Component Diagram

Large Scale

HQ

AP-VBT1000

A/V Out

AP-VBT1000

A/V Out

HD/SD Video Broadcasting Media Server
(Dual Encoding : H.264 HD, H.264 D1)
AP-VBS5000

A/V Input

LAN

L2 Switch

LAN

Area 1

Smart HD Video Broadcasting Server
(Streaming + Recording)
AP-SBS10000

AP-SBC
Smart Client S/W for PC Video Player

WAN

WAN

SD Broadcasting

SD Broadcasting

AP-SBS10000

Branch

AP-SBS10000

AP-SBS10000

AP-VBT1000S

LAN

LAN

LAN

A/V Out

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Ordering Information

- **AP-VBT1000S SD Video Broadcasting Terminal Hardware**
  - AP-VBT1000S Video Broadcasting Terminal Main Body
  - High-performance Video Processor Architecture
  - 1-port 10/100Mbps Fast Ethernet and 1-port RS-232C Console
  - Two(2) USB Ports
  - S-Video, Component Video Interface
  - S/PDIF Audio Port (RCA, Optical), Stereo RCA Audio Output Interface
  - Including Network Cable Set & Power Supply Cable, Remote Controller, etc.
- **Built-in APOS Internetworking Software for AP-VBT1000S**
- **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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