

HD IP Broadcasting Solution for Remote Video Broadcasting



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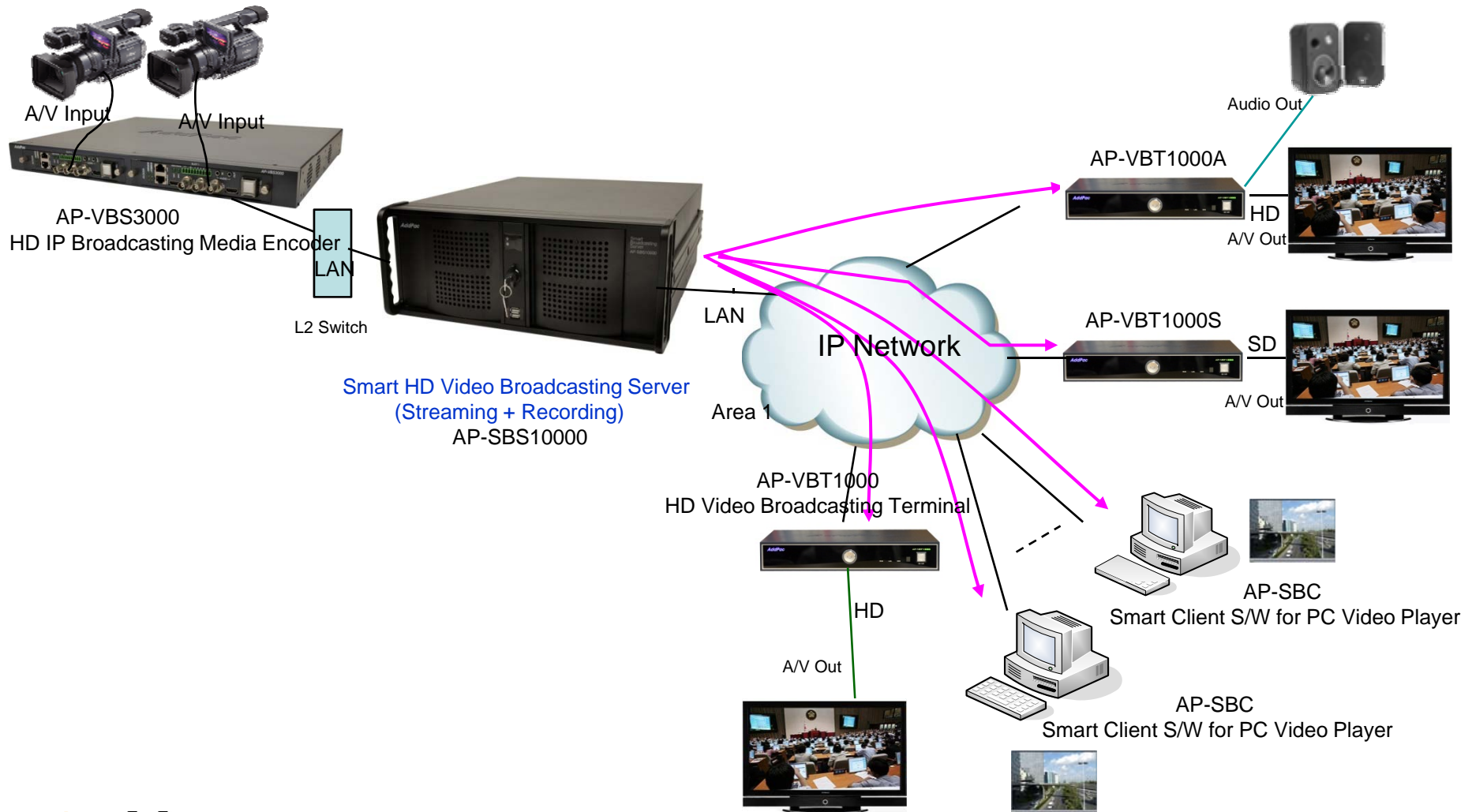
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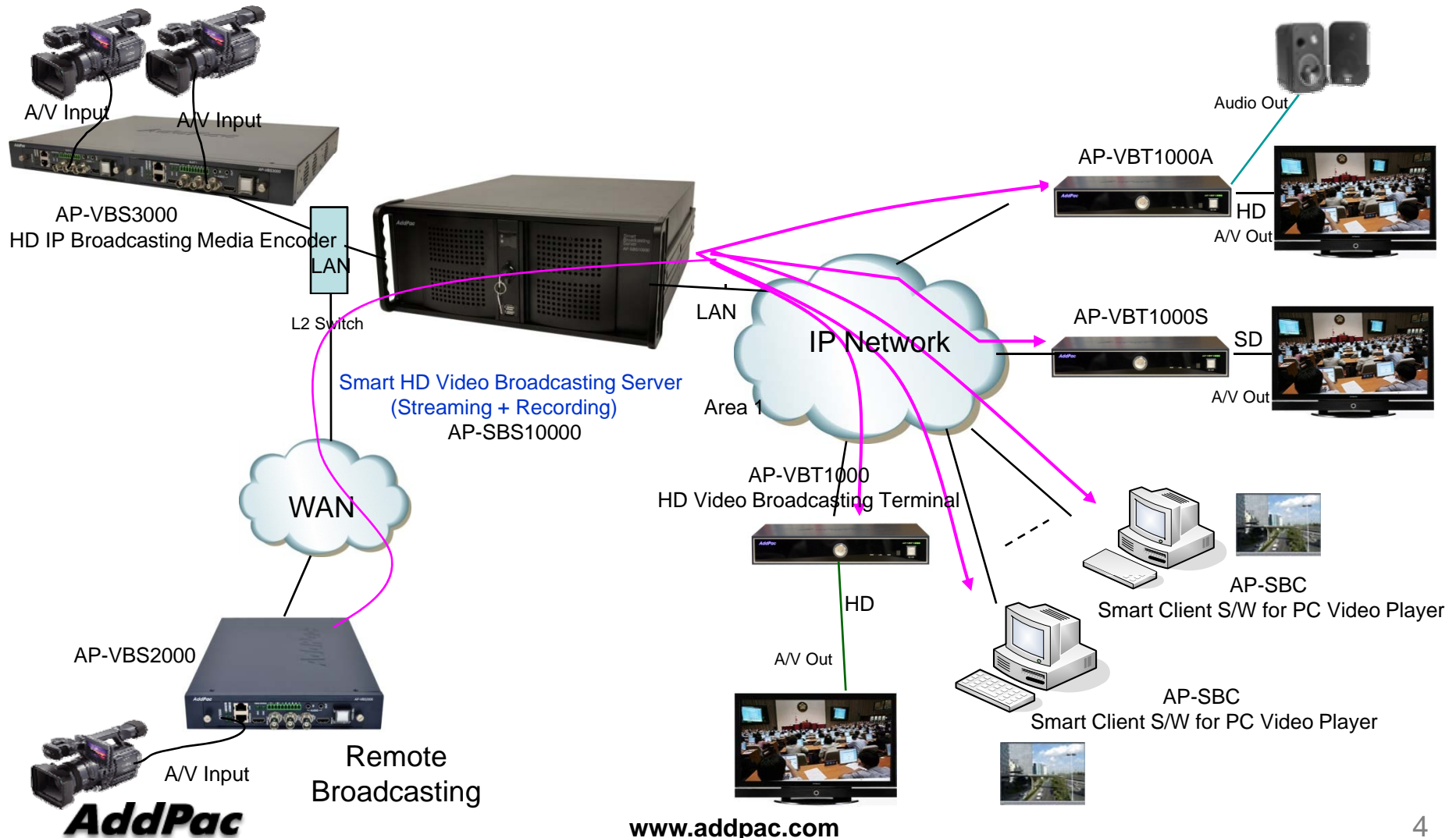
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 - Small Size HD IP Broadcasting Media Encoder for Remote Broadcasting
 - : AP-VBS2000
 - HD IP Broadcasting Server: AP-SBS10000
 - HD IP Broadcasting Terminal : AP-VBT1000
 - HD Broadcasting Management System : AP-MBMS
 - Smart Broadcasting Client S/W for PC Video Player : AP-SBC

HD IP Video Broadcasting Service Diagram






HD IP Remote Video Broadcasting Service Diagram






Multi-Channel HD IP Broadcasting Media Encoder Solution

Multi-Channel HD IP Broadcasting Media Encoder Comparison Table

| | AP-VBS7000 | AP-VBS6000 | AP-VBS3000 |
|-----------------------|--|---|---|
| |  |  |  |
| Video Codec | H.264 High Profile | H.264 High Profile | H.264 High Profile |
| Video Resolution | 1080i Full HD, 720P HD | 1080i Full HD, 720P HD | 1080i Full HD, 720P HD |
| Video Input Interface | HD-SDI, HDMI | HD-SDI, HDMI | HD-SDI, HDMI |
| Audio Interface | RCA Stereo Interface | RCA Stereo Interface | RCA Stereo Interface |
| Channel Number | Up to Ten(10) Video Channel | Up to Four(4) Video Channel | Up to Two(2) Video Channel |
| Video Terminal | AP-VBT1000 ,etc | AP-VBT1000 ,etc | AP-VBT1000 ,etc |



AP-VBS2000 Video Media Encoder for remote broadcasting

HD IP Broadcasting Media Encoder

AP-VBS2000 Video Media Encoder

Main Features

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- One(1) Module Slot for Video Media Encoder
- High-end Video Codec, H.264 High Profile
- Up to 30 frame/sec, 1080i Full HD, 720P HD Video Resolution Support
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- RTP, RTSP Protocol based Broadcasting Service
- IP based Network Protocol, Video/Voice Traffic QoS

HD IP Broadcasting Media Encoder

AP-VBS3000 Video Media Encoder

Hardware Specification

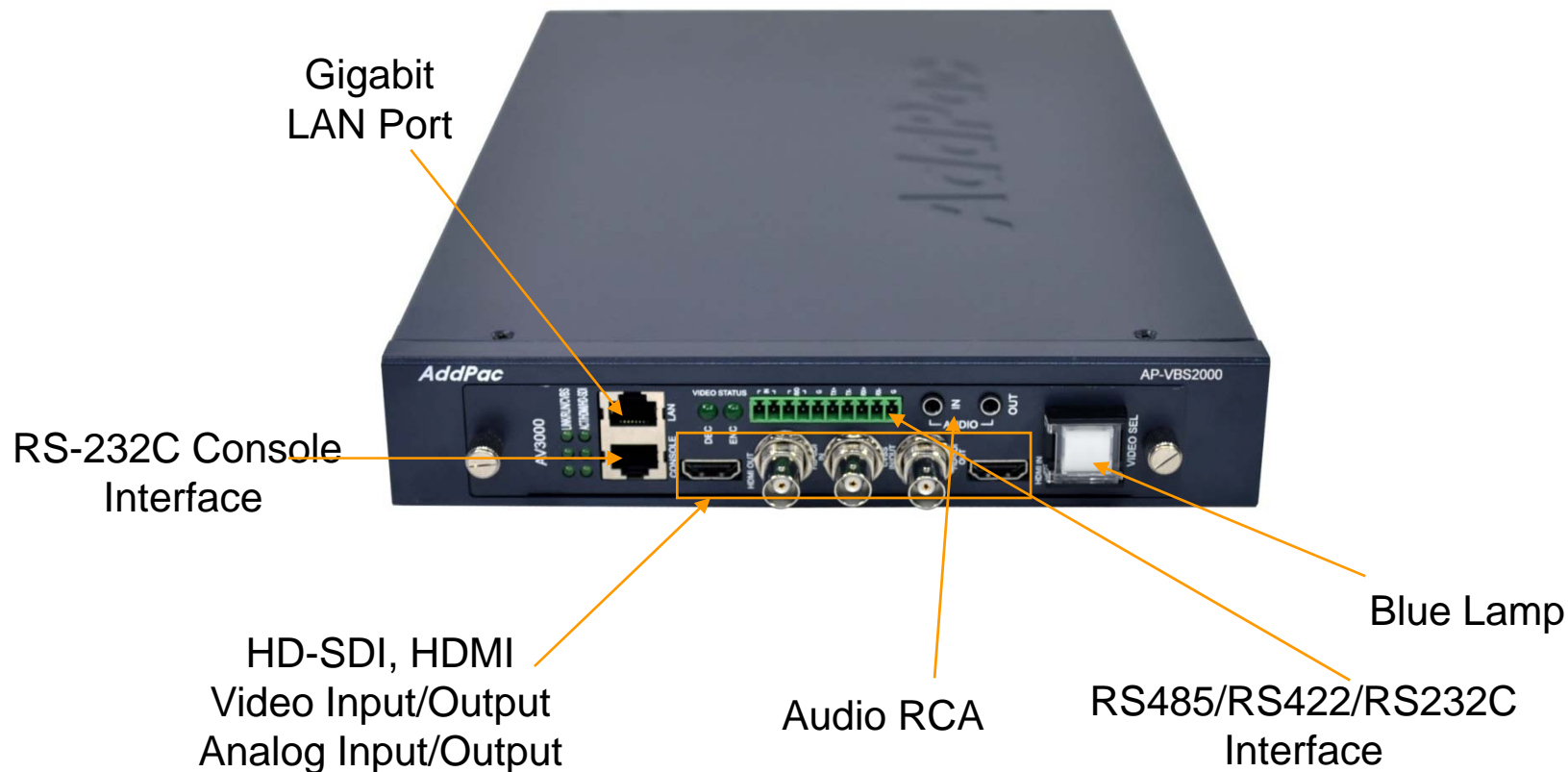
- High-End Video Processors + RSIC Processor
- Main Chassis
 - Power On/Off Switch
 - One(1) Video Encoder Module Slot
 - AV3500E HD Video Encoder Module
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - One(1) RS-232C Console (RJ45)
 - RS485/RS422/RS232 Interface
 - Video Interface (Input)
 - Component
 - HD-SDI Interface
 - HDMI Interface
 - Audio Interface (Input/Output)
 - RCA Stereo Connector

HD IP Broadcasting Media Encoder

AP-VBS2000 Video Media Encoder

Hardware Specification

AP-VBS2000 (AV3500) Front Side View



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HD IP Broadcasting Media Encoder

AP-VBS2000 Video Media Encoder

Hardware Specification

AP-VBS2000 Back Side View



AC110~220V Free Voltage
Power Inlet


Power On/Off Switch



HD IP Broadcasting Server Solution

Contents

- HD IP Broadcasting Server Comparison Table
- HD IP Broadcasting Server Series
 - AP-SBS10000 : Large Capacity
 - AP-SBS1000 : Small Capacity



AP-SBS10000
HD IP Broadcasting
Server
(Real-time & On-Demand)

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Main Features

- High-Performance HD/D1 Video Broadcasting Service Features
- RTP, RTSP Protocol Support
- H.264 Video Codec, Full HD, HD, D1 Video Resolution Support
- HD Video Recording and Streaming Service
- Live Broadcasting and On-Demand Service
- Smart Client Broadcasting Video Player Support (MS-Window S/W, Web based)
- Smart Client Broadcasting Manager Support (MS-Window S/W, Web based)
- 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) 10/100/1000Mbps Gigabit Ethernet Interface
- USB Interface Support (Front Side, Back Side)

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

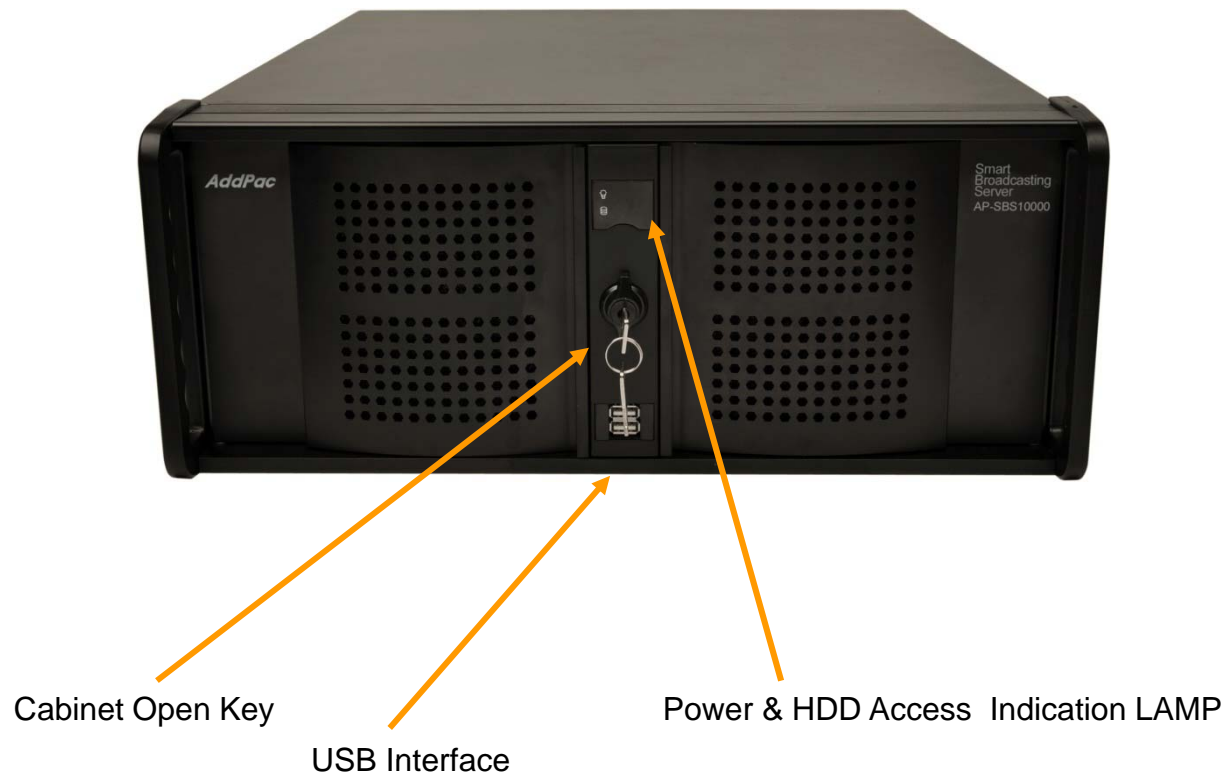
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI, RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side

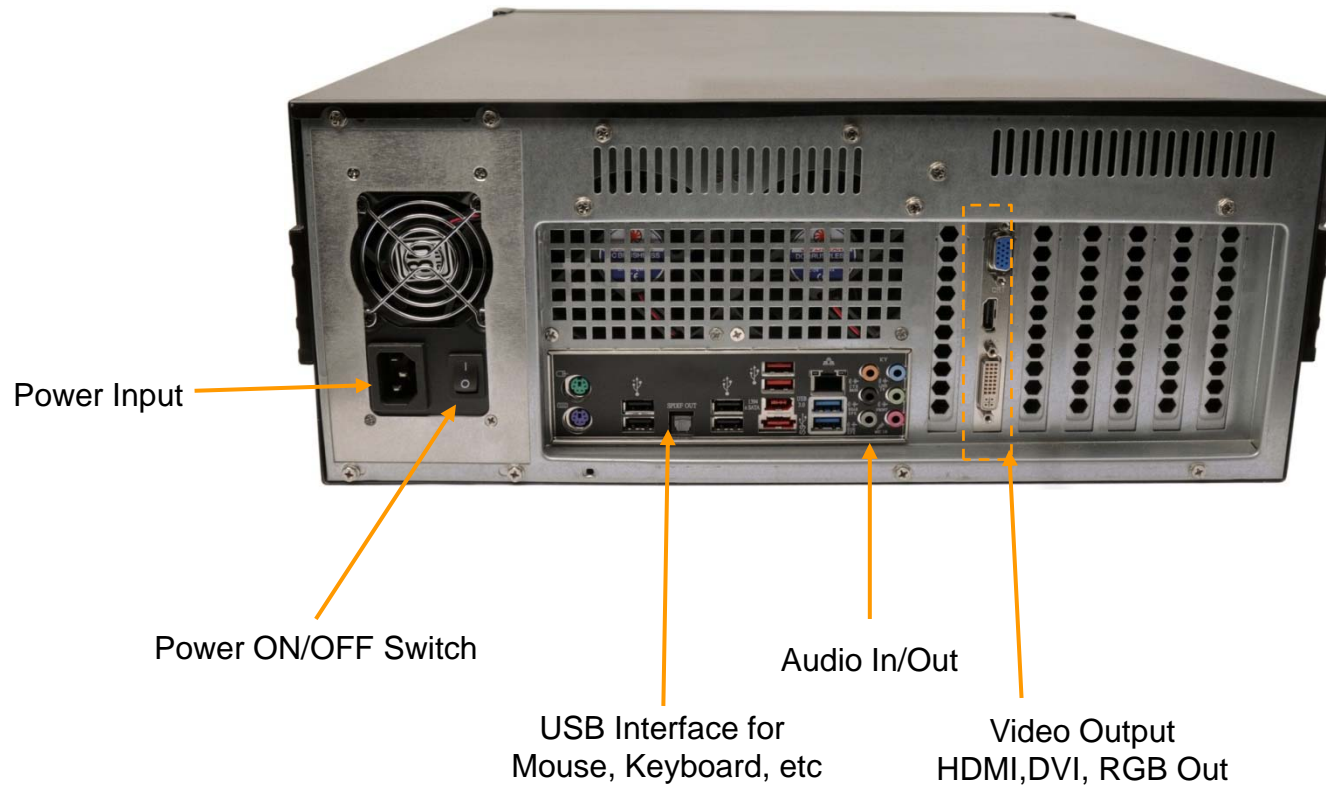


HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side





HD IP Broadcasting Terminal Solution

Contents

- IP Video Broadcasting Terminal Series
 - AP-VBT1000 : HD Terminal





AP-VBT1000

Video Broadcasting Terminal

IP based Video Broadcasting Terminal

AP-VBT1000 HD Video Broadcasting Terminal

Main Features

- High Quality Images up to 64kbps and 4Mbps (HD)
- High-performance Audio & Video Codec Support
 - H.264, MPEG-4 Video Codec
 - Line IN/OUT : G.726, G.711, MP-3, AAC Audio Codec
- Up to 30 frame/sec, SD, HD, Full HD Resolution
- RTP/RTSP based Real-Time HD 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
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

IP based Video Broadcasting Terminal

AP-VBT1000 HD Video Broadcasting Terminal

Hardware Specification

- 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
 - RCA, S-Video, Component Output, DVI Interface
 - High quality Audio and Voice Interface
 - Stereo Audio Output Connector
 - S/PDIF RCA Interface
 - S/PDIF Optical Interface

IP based Video Broadcasting Terminal

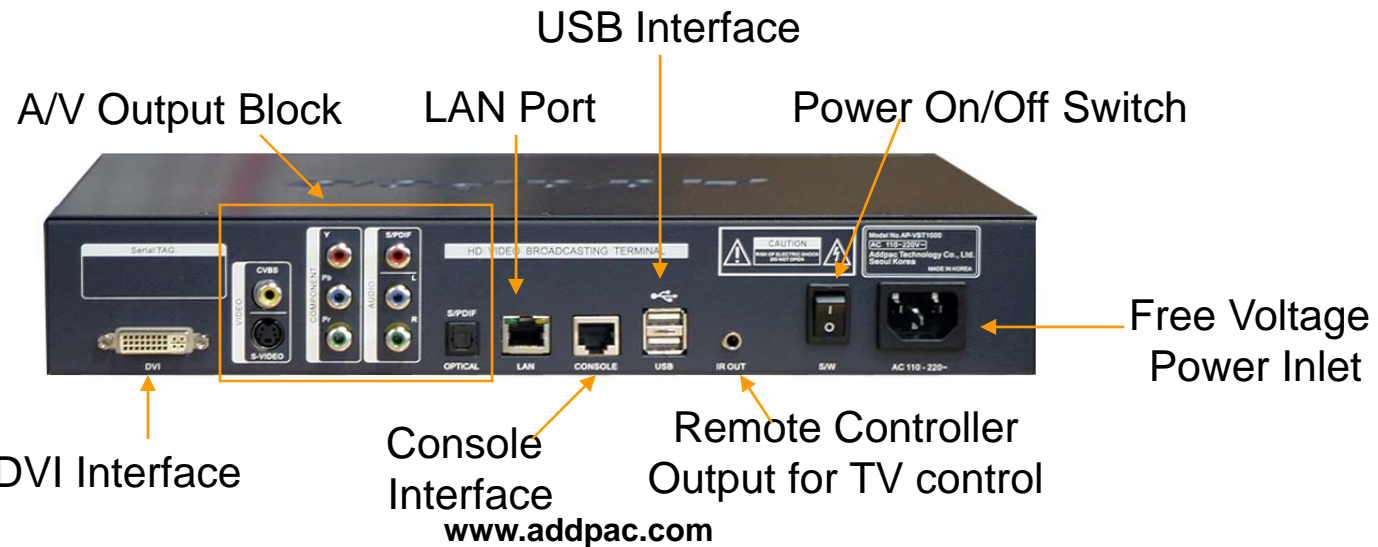
AP-VBT1000 HD Video Broadcasting Terminal

Hardware Specification

Power On/Off Switch (blue lamp)




Remote Controller Sensor



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AP-MBMS HD IP Broadcasting Management System

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

Main Features

- User Register and Access Restriction Management
- Broadcasting Device Management
- Broadcasting Source, Group, Favorite List Management
- Reserved Broadcasting and Time Signal Broadcasting
- Fire Reception Department Setup (AP3150)
- Emergency Broadcasting Setup and Broadcasting
- Fire Emergency Broadcasting Setup and Broadcasting
- TTS Broadcasting
- Remote Broadcasting Management (AP-VP300 Remote Broadcasting)
- Broadcasting Device Inspection
- Search Event Log

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

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..

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

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

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

MBMS GUI Initial Screen

Broadcasting Source

media_source nms broadcast video broadcast

Broadcasting Group

media_group multimedia team nms team

Broadcasting Session Status

ON AIR

| Device Name | IP Address | Status |
|--------------|----------------|---------------------|
| media_server | 172.17.101.247 | No response |
| media_group | | |
| vp200_hgjang | 172.16.253.106 | Broadcasting in ... |

Broadcasting Session

| Broadcasting Name | Broadcasting Source | Broadcasting Type | Start Time | Number of terminals bei... | Number of terminals faile... | Schedule Name | Bbroadcasting 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)



Thank you!

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