

HD IP Broadcasting Solution for Call Center Information Display



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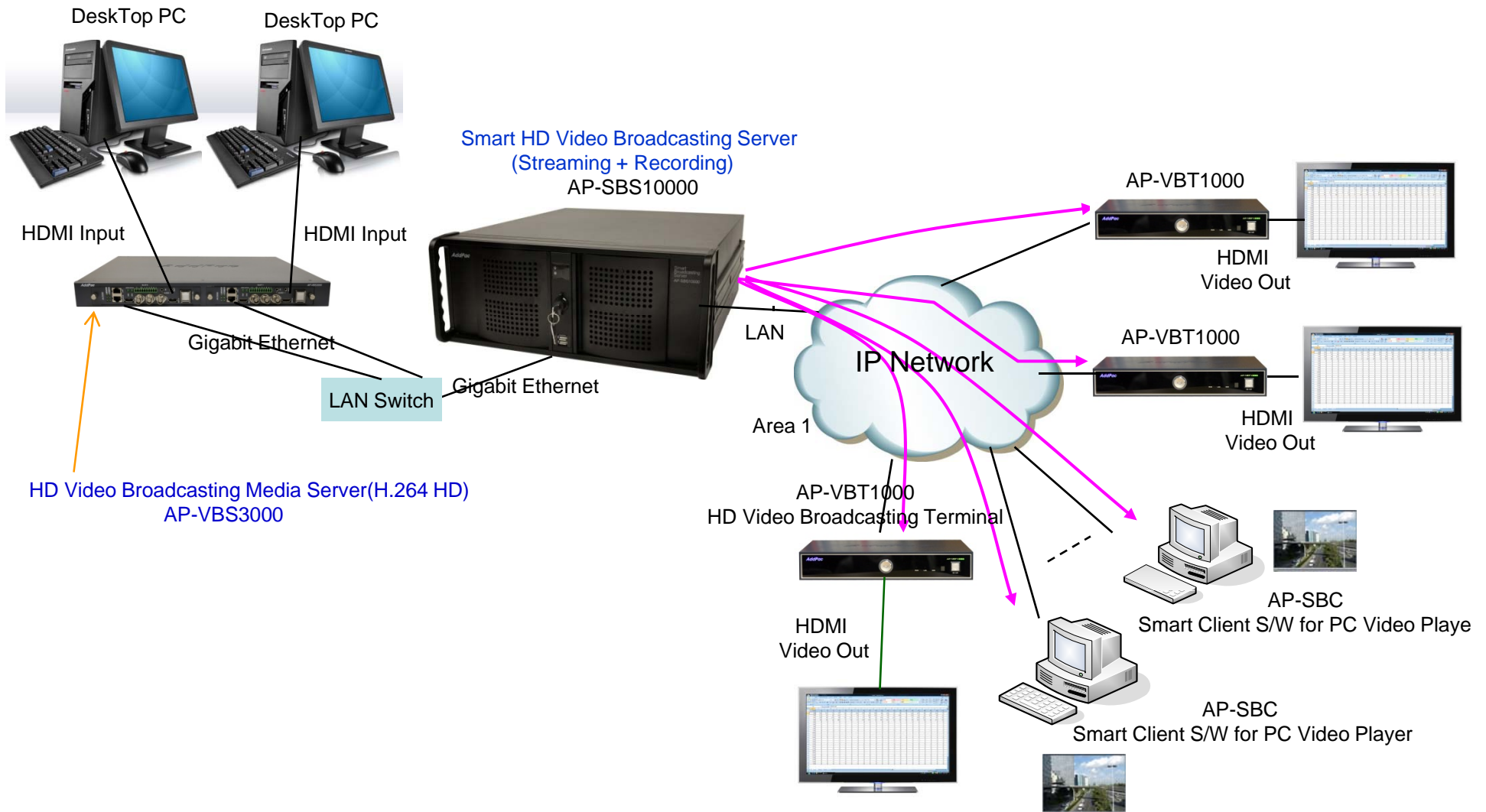
2011, Sales and Marketing

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- Network Diagrams
- Product Specifications
 - HD IP Broadcasting Media Encoder
: AP-VBS7000, AP-VBS6000, AP-VBS3000
 - HD IP Broadcasting Server: AP-SBS10000, AP-SBS1000
 - HD IP Broadcasting Terminal : AP-VBT1000
 - HD Broadcasting Management System : AP-MBMS

IP Video Broadcasting Service Diagram for Call Center Information Display








HD IP Broadcasting Media Encoder Solution

Contents

- HD IP Broadcasting Media Encoder Comparison Table
- HD IP Broadcasting Media Encoder Series
 - AP-VBS7000 : 10 Channel
 - AP-VBS6000 : 4 Channel
 - AP-VBS3000 : 2 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-VBS7000 Video Media Encoder

HD IP Broadcasting Media Encoder

AP-VBS7000 Video Media Encoder

Main Features

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- Multi-Channel HD Video Broadcasting Solution
- Ten(10) Module Slots 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-VBS7000 Video Media Encoder

Hardware Specification

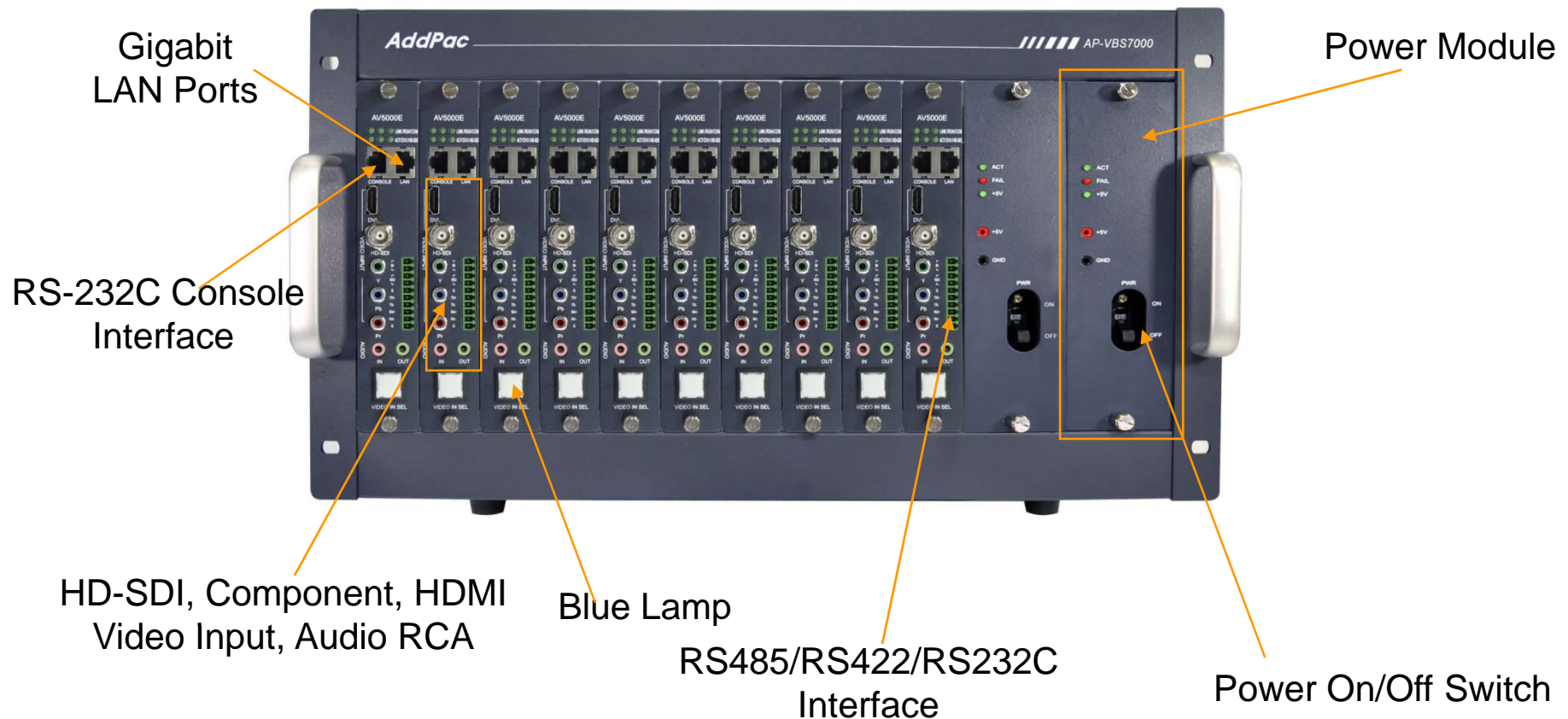
- High-End Video Processors + RSIC Processor
- Main Chassis
 - Power On/Off Switch
 - Up to Ten(10) Video Encoder Module Slots
 - AV3500 HD Video Encoder Module
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - One(1) RS-232C Console (RJ45)
 - RS485/RS422/RS232 Interface
 - Video Interface (Input)
 - Component
 - HD-SDI Interface
 - HDMI Interface
 - Audio Interface (Input/Output)
 - RCA Stereo Connector

HD IP Broadcasting Media Encoder

AP-VBS7000 Video Media Encoder

Hardware Specification

AP-VBS7000 Front Side View



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HD IP Broadcasting Media Encoder

AP-VBS7000 Video Media Encoder

Hardware Specification

AP-VBS7000 Back Side View



Cooling FAN

AC110~220V Free Voltage
Power Inlet



AP-VBS6000 Video Media Encoder

HD IP Broadcasting Media Encoder

AP-VBS6000 Video Media Encoder

Main Features

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- Multi-Channel HD Video Broadcasting Solution
- Four(4) Module Slots 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-VBS6000 Video Media Encoder

Hardware Specification

- High-End Video Processors + RSIC Processor
- Main Chassis
 - Power On/Off Switch
 - Up to Four(4) Video Encoder Module Slots
 - AV3500 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-VBS6000 Video Media Encoder

Hardware Specification

AP-VBS6000 Front Side View

Gigabit LAN Port



RS-232C Console Interface

HD-SDI, Component, HDMI Video Input, Audio RCA

Blue Lamp

RS485/RS422/RS232C Interface

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HD IP Broadcasting Media Encoder

AP-VBS6000 Video Media Encoder

Hardware Specification

AP-VBS6000 Back Side View



AC110~220V Free Voltage
Power Inlet

Power On/Off Switch



AP-VBS3000 Video Media Encoder

HD IP Broadcasting Media Encoder

AP-VBS3000 Video Media Encoder

Main Features

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- Multi-Channel HD Video Broadcasting Solution
- Two(2) Module Slots 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
 - Up to Two(2) Video Encoder Module Slots
 - AV3500 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-VBS3000 Video Media Encoder

Hardware Specification

AP-VBS3000 Front Side View



Gigabit LAN Port

RS-232C Console Interface

HD-SDI, HDMI Video Input/Output Analog Input/Output

Audio RCA

Blue Lamp

RS485/RS422/RS232C Interface

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HD IP Broadcasting Media Encoder

AP-VBS3000 Video Media Encoder

Hardware Specification

AP-VBS3000 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

HD IP Video Broadcasting Server Comparison Table

	AP-SBS10000	AP-SBS1000
		
Broadcasting Protocol	RTSP, RTP	RTSP, RTP
Broadcasting Service	Real-Time Live Broadcasting, On-Demand Service	Real-Time Live Broadcasting, On-Demand Service
Video Resolution	H.264 Video Codec, Full HD, HD, D1(SD)	H.264 Video Codec, Full HD, HD, D1(SD)
Hard Disk	Up to Four(4) SATA HDD	One(1) SATA HDD
Ethernet	One(1) 10/100/1000Mbps Gigabit Ethernet	One(1) 10/100/1000Mbps Gigabit Ethernet
Application	Large Scale Application	Small Scale Application



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

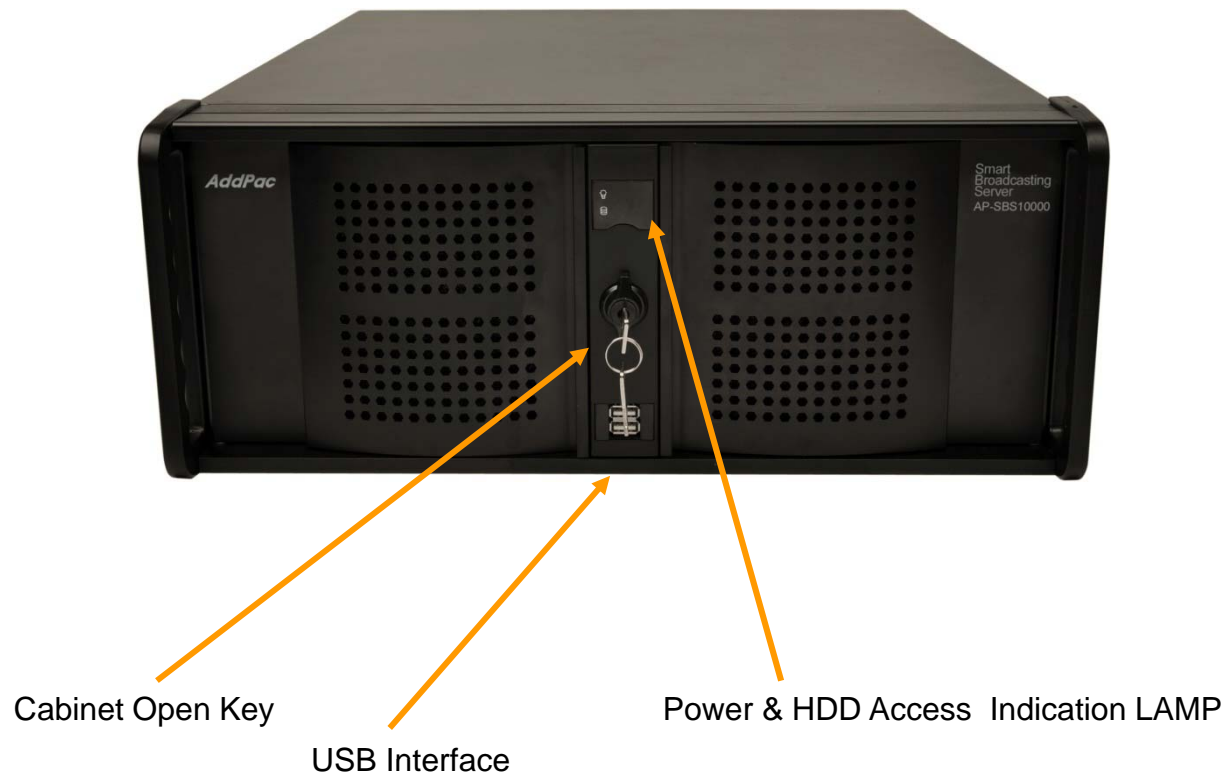
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI,RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side

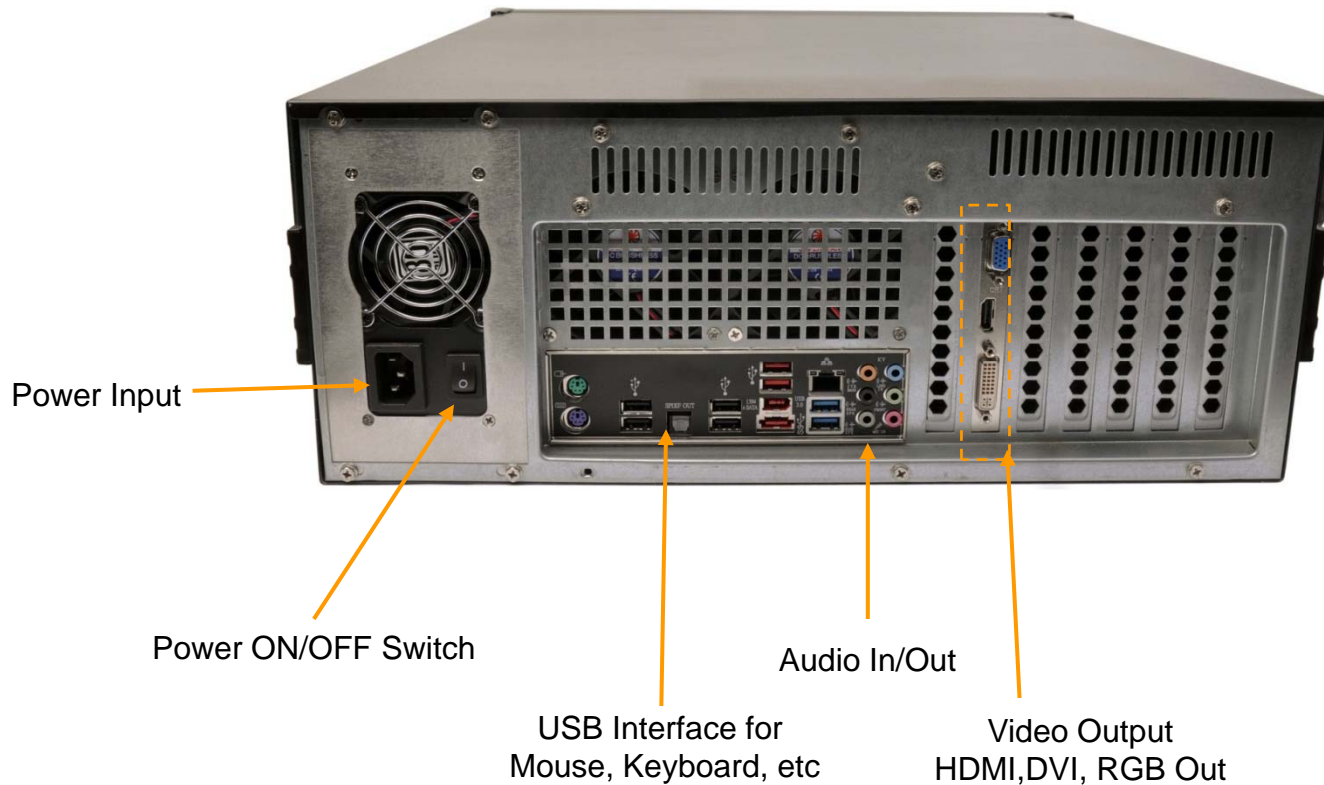



HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side





AP-SBS1000 HD IP Broadcasting Server

HD IP Broadcasting Server

AP-SBS1000 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 1 x 3.5Inch Hard Disk (SATA Type, 2Tera Byte Support)
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface

HD IP Broadcasting Server

AP-SBS1000 Smart HD Broadcasting Server

Hardware Specification

- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - One(1)-Port RS232C Port Interface
 - One(1) Hard Disk

AP-SBS1000 Front Side



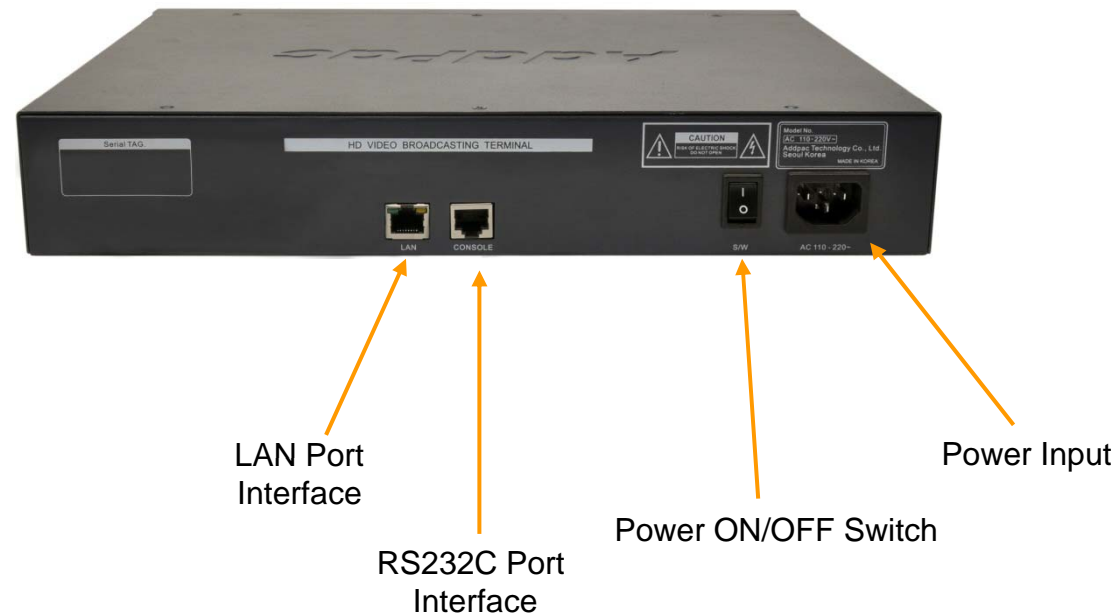
Power ON/OFF key and Indication LAMP LAN, HDD Access Indication LED

HD IP Broadcasting Server

AP-SBS1000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS1000 Back Side





HD IP Broadcasting Terminal Solution

Contents

- IP Video Phone 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

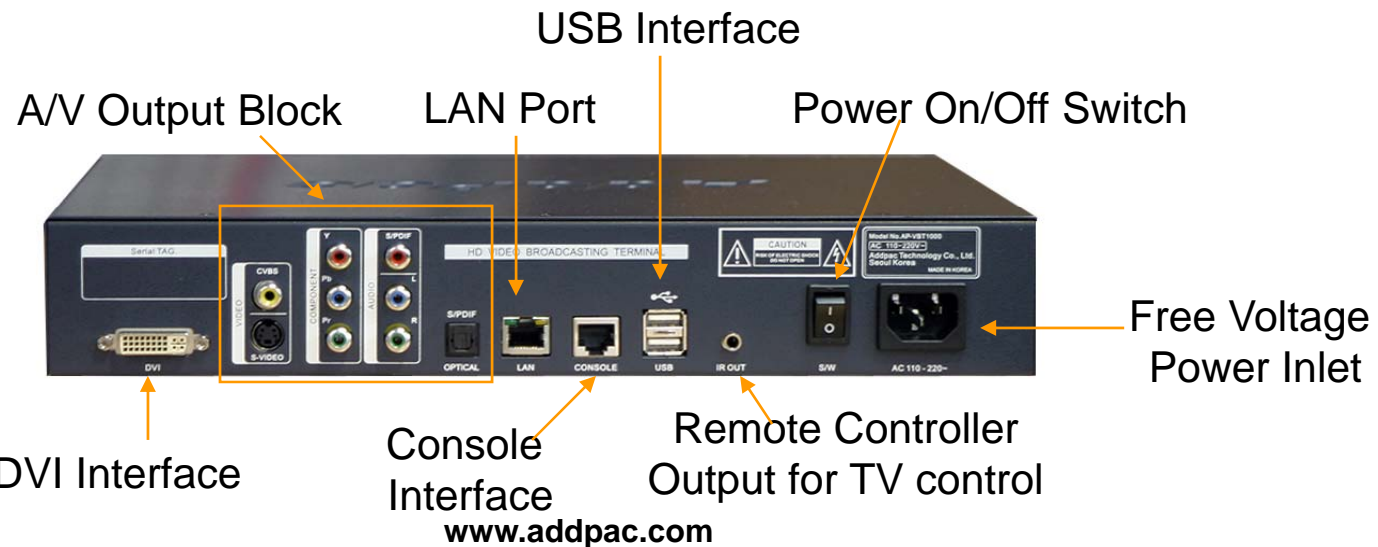
AP-VBT1000 HD Video Broadcasting Terminal


Hardware Specification

Power On/Off Switch (blue lamp)



Remote Controller Sensor





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

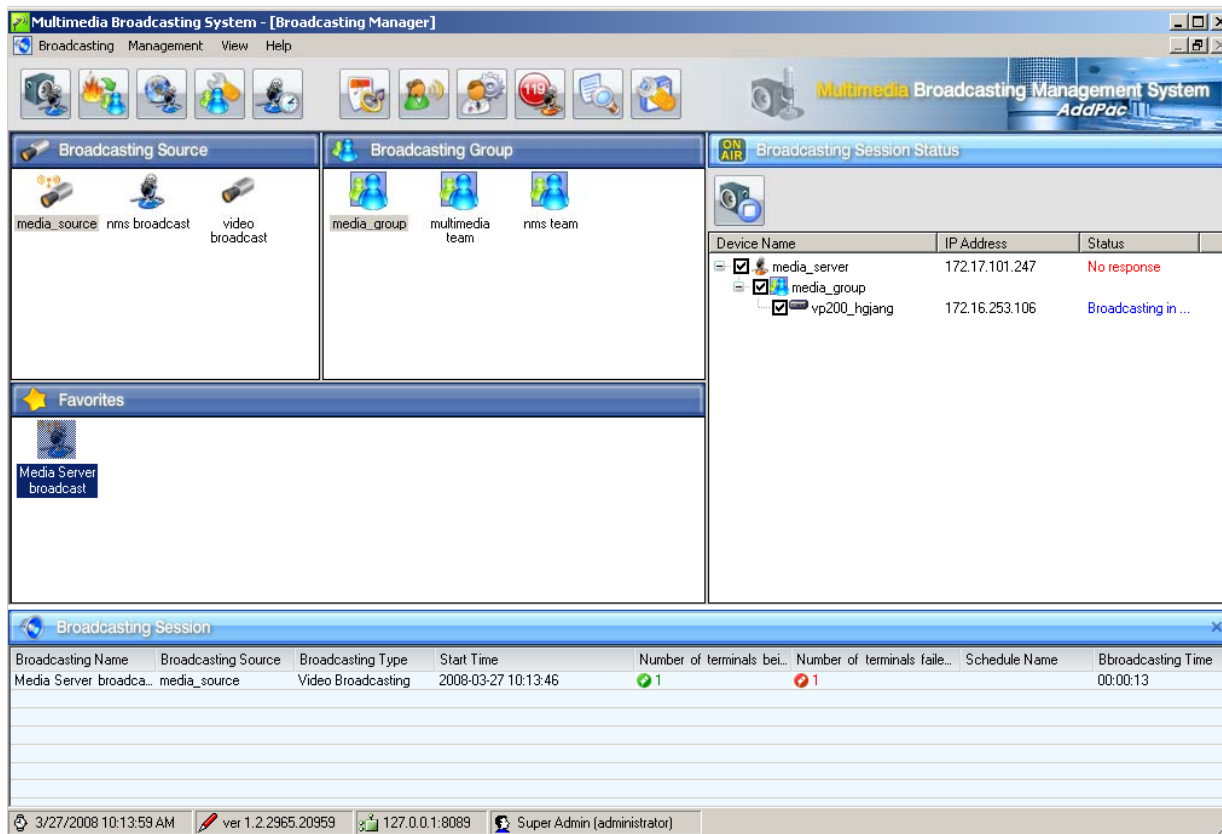
Software Requirement

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

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

Favorites

Media Server broadcast

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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