IP-8000SF

IP Network Audio & PA System Software

Instruction Manual

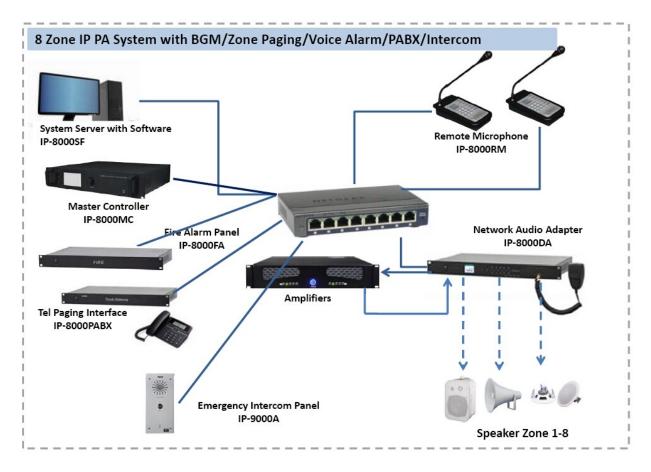




Table of Content

CM)

Part I: Introduction	2
1.1 Product Overview	2
1.2 Detailed features and functionalities	2
1.3 Diagram of the topology of system	4
Part II: Installing The System	5
2.1 System Software Installation*	5
2.1.1. Server Software Installation	5
2.1.2 Workstation Software Installation	8
Part III: Server Software Operation	9
3.1 Basic Operation	9
3.2 Software Configuration*	9
3.3 General Operation	.13
Part IV: Workstation Software Operation	. 17
4.1 Basic Operation	.17
4.2 Software Configuration*	.17
4. 3 General Operation	.18
Part V: MP3 Programming Tools	. 19
5.1 General Operation	. 19
Part VI: Hardware Installation and Operation	. 20
6.1 Main control room equipment installation	.20
6.2 Terminal installation	.20

* Mandatory for installer only, can be skipped by end user.

Part I: Introduction

1.1 Product Overview

The IP Network Public Address System, powered by Ethernet technology, the world's most widely used networking technology, encapsulates audio signal into TCP/IP datagram and transports it over computer networks. The solution completely resolves the problems of the legacy public address systems such as bad sound quality, difficulty in maintenance, shortage of mutual communication, etc. In addition to the major features it delivers, it is also very easy to install –the system can be set up into fully functioning within one minute by merely plugging the terminals into network jacks.

The system not only carries out basis functions like class bell, multicasting by zones, speech, but also features advanced functions such as AOD (Audio on Demand).

The system supports CD quality playback (44.1k, 16 bit, stereo). The quality is sufficient for listening comprehension exercises in foreign language study or examination. Students can take great advantage of the crystal-clear sound.

1.2 Detailed features and functionalities

- Covering all the basic functions provided by legacy broadcasting systems.

Automated class bell, music playback, speech, notification broadcasting and radio program forwarding.

- Ethernet infrastructure

Taking advantage of the ubiquity of the Ethernet, cost-effective and high quality guaranteed.

- Online speech

Sending the speech to the broadcasting system by any online PC (must be on the campus network). The speech can be broadcasted or multicasted to designated zones.

- AOD (Audio On Demand)

The operator can play any programs stored on the audio server by controlling the broadcasting terminal using remote.

- Multiple media sources

Cassettes, CD, radio, Microphones... programs from various sources can be input directly into the audio server. With real-time compression and fast forwarding, the programs can be heard from any corner across the campus in no time.

- Customized playlist

Each terminal has its uniquely assigned IP address, making it possible that it can individually receive the





programs preconfigured on the audio server. Operators can save programs on the server and setup the

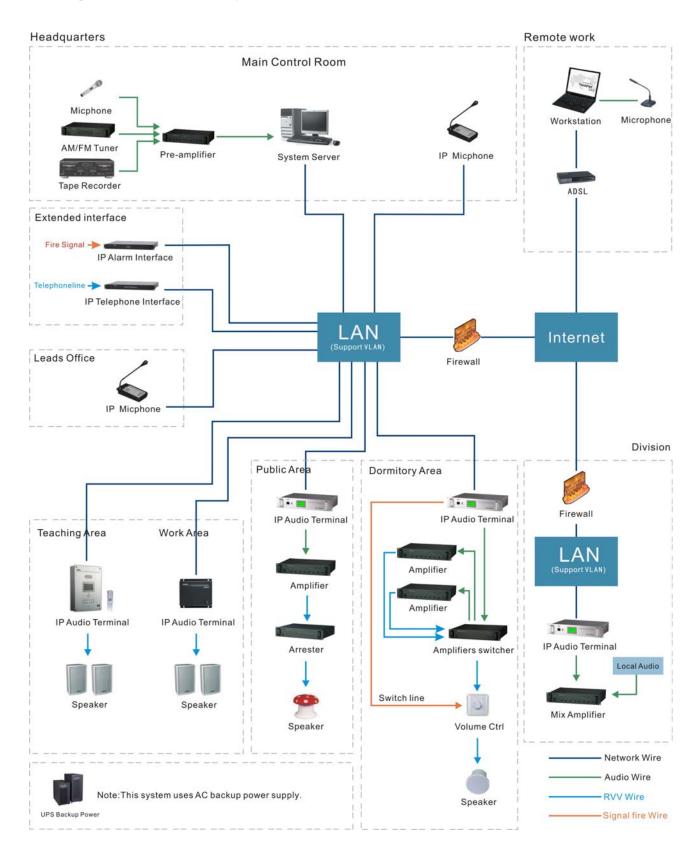
playlist, then the program can be play back automatically at the preset time and in the order of the playlist.

- Multcasting

The system allows for multicasting service, with which programs can be delivered to designated groups manually divided by the operator. The volume and the on-playing program on the terminal can be remotely controlled by the operation platform installed on the server-side.



1.3 Diagram of the of system application



Part II: Installation of the System

2.1 System Software Installation*

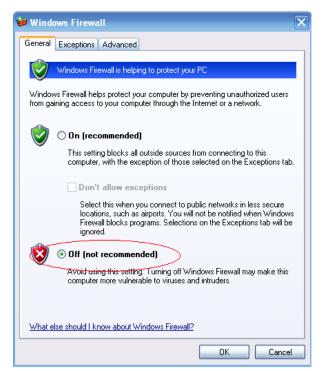
The software application of IP Network Public Address System consists of server software and workstation software. The server software will automatically run demo version with three (3) preset users should no softdog is detected; it will become a full version when softdog is plugged in.



Softdog (Drive-free)

2.1.1. Server Software Installation

Caveat: Running firewall software may affect the normal operation of IP Network Public Address System. Please make sure the firewall software is disabled prior to installing/executing the software (including Windows Firewall).



1) Brief installation procedure

• Install the Windows XP (Server or Professional version recommended) on the computer to be installed with the server software.

If it needs to use Windows 7 operating system to run normally, please set up [compatibility] options according to the following steps.

	Open					
	Run as administrator					
	Pin to Start Menu					
	Add to Quick Launch					
	Restore previous versions					
	Send To	•				
	Cut					
	Сору					
	Create Shortcut					
	Delete					
	Rename					
- 16	Properties					

Step1. Click the right mouse button in the server icon;

Properties					
General Compatibility Security Details Previous Versions					
If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version.					
Compatibility mode					
Run this program in compatibility mode for:					
Windows XP (Service Pack 2) -					
Settings					
Run in 256 colors					
Run in 640 x 480 screen resolution					
Disable visual themes					
Disable desktop composition					
Disable display scaling on high DPI settings					
Privilege Level					
Run this program as an administrator					
R Show settings for al users					
OK Cancel Apply					

Step2. Selected hook according to the above

- Ensure that the soundcard and network card are installed and functional on the computer to be • installed with the server software.
- In the TCP/IP properties of the network card setting, assign static IP (e.g., 192.168.0.6), mask 255.255.255.0, and gateway (e.g., 192.168.0.1).

Note: Server must use static IP address, DHCP is not available to the server software.



USER MANUAL

nternet Protocol (TCP/IP)	Properties ?					
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatically						
Ose the following IP address	B28:					
<u>I</u> P address:	192.168.0.6					
S <u>u</u> bnet mask:	255 . 255 . 255 . 0					
Default gateway:	192.168.0.1					
Obtain DNS server address automatically						
Use the following DNS server addresses:						
Preferred DNS server:	192.168.0.1					
Alternate DNS server:						
	Ad <u>v</u> anced					
	OK Cancel					

- Insert the system installation CD-ROM. execute CD:\Setup\Setup...exe.
- Keep clicking "Next" through the installation until it is completed. The shortcut icon will be created on the desktop.

🔂 Setup - IP Network Public Address System¥2.9.5	
Select Components Which components should be installed?	
Select the components you want to install; clear the components you do n install. Click Next when you are ready to continue. -	ot want to
IP Public Address System Server	3.6 MB
IP Public Address System Workstation	1.9 MB
Common files(Contain MP3 Tools, Necessary)	2.2 MB
Current selection requires at least 5.8 MB of disk space.	
< <u>B</u> ack <u>N</u> ext>	Cancel

- Go back to CD:\ folder. Copy "MP3 Files(Demo)", and paste the content in the folder to the local harddisk (e.g., D:\ MP3 Files)
- Take the CD-ROM our. The installation for the server software is now completed. Please refer to Part III for server software configuration procedure.



2.1.2 Workstation Software Installation

1) Brief installation procedure

- Check whether the workstation computer has Windows2000/XP properly installed. The workstation software does NOT support Windows98/Me.
- Ensure that the workstation computer has sound card and network card properly installed.
- DHCP can be configured for TCP/IP properties in network card setting.

Internet Protocol (TCP/IP) Pro	perties 🛛 🕐 🔀			
General Alternate Configuration				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
💿 Obtain an IP address automati	cally			
Use the following IP address:				
IP address:				
Subnet mask:				
Default gateway:				
⊙ Obtain DNS server address au	utomatically			
OUse the following DNS server	addresses:			
Preferred DNS server:	· · · · · ·			
Alternate DNS server:				
	Advanced			
	OK Cancel			

 Insert the system installation CD-ROM. execute CD:\Setup\Setup...exe, then click on "Next" to the next screen. Uncheck "Digital IP Network Public Address System Server" and leave the "Digital IP Network Public Address System Workstation" checked. Keep clicking "Next" until the installation is completed. The shortcut icon will be created on the desktop. Please refer to Part IV for workstation software configuration procedure.

Part III: Server Software Operation

3.1 Basic Operation

System server is the core of the Digital IP Network Public Address System.

pen Server Close Server	МРЗ То	ols About	0 Exit					
🕘 Running state	<u>()</u>	Running state [V	iew terminals and wo	rkstations runn	ing the	state]		
🚯 Timing ring								Volume 🤜 Monite
N	ID	Name	IF Address	Status	Vol		Task	Source
Timing program	1	Terminal1		-	12		Idle	
\Lambda Timing braodcast	2	Terminal2		_	12		Idle	
J Hanng braudcast	3	Terminal3		-	12		Idle	
싀 Live broadcast								
💋 Fire Alarm								
🔵 Program manage								
Basic setting								
Terminal setting								
	1							
					to br			

Main operation window

3.2 Software Configuration*

Normally the software configuration is only required to be done once after the initial server installation to set the proper parameters and does not need to be reconfigured during the normal operation. The following steps reflect a typical configuration procedure done by the installer. The system administrator can also refer to these steps for reference.

1) Select "Program Management" window, which is shown in the figure below. Click on "folder" button to pop out the dialog box. Then specify the path to the folder where all the media are stored (e.g., D:\mp3 files, which has been created in section 2.1).



Then press "Search" button. The system will establish the media list automatically.



🔘 Program manage[audio files can be p	played by terminals or	broadcast automaticly
C Folder E:\MP3 Files\) Search Generation
Current\	_	
Name	Attribute	File length
📝 And I.mp3	File	00:02:42(H:M:S)
🚮 AroundTheWorld. mp3	File	00:03:30(H:M:S)
🚮 breathless. mp3	File	00:03:25(H:M:S)
📝 calling you.mp3	File	00:05:00(H:M:S)
📝 Chansondetoile.mp3	File	00:04:02(H:M:S)
📊 ciara_feat_ludacris-oh.mp3	File	00:04:16(H:M:S)
📝 eversleeping.mp3	File	00:03:40(H:M:S)
📝 fading like a flower.mp3	File	00:03:52(H:M:S)
📝 Fallen Embers.mp3	File	00:02:31(H:M:S)

2) Select "Terminal Setting" window, as shown in the figure below. Specify the actual number of terminals, then press "update" button. The software will restart.

🔀 Terminal setting [modify attributes or group of terminals]							
-Attribute- Number: (30 ÷ 1	Update 📰	Edit		-Gr No	oup te: Drag Terminal with the m	ouse to group.
ID	Name	From WAN				∃… 🛃 1Group-Office	-
1	Terminal1				E	🗄 🗟 2Group-Dormitory	
2	Terminal2				E	🗄 🕞 3Group-Outdoor	
3	Terminal3					🔤 Default group	
							🔒 Add group
							🌍 Rename group
							G Delete group

After the software restarts, go back to the "Terminal Setting", and double-click any line to pop up the "Edit" dialog box. Name the terminal according to its location or role.

Edit terminal attribute		X
Attribute ID: 1 New: forminal AdvanceAttribut Apply to all Audio Rcv: Multicast (Default) C Unicast (When the LAN/WAN does not support multicast, use Unicast) Talk echo cancellation	BroadcastAttrib Apply to all Right of initiate broadcast Allow range: C All C Part Broadcast priority: Priority1 (Low) V SpyAttribute Apply to all Right of initiate Spy Allow range: C All C Part	TalkAttribute Apply to all ✓ Right of initiate Talk/Call Allow range: ● All C Part Call priority: Priorityl (Low) ▼ Call Sequence: 1: 1: 1 (1-65000) 2: 2 (1-65000) 3: 3 (1-65000) Extended Call Sequence: 1: 1: 1 (1-65000) 2: 2 (1-65000) 3: 3 (1-65000) 7: 2 (1-65000) 3: 3 (1-65000) 7: 2 (1-65000) 3: 3 (1-65000) TalkVolume (Only some models): Mic: 4 Speak 10
	Special IP rule	Set Automanswer C Automatic © Manual Some models default automanswer
	OK Cancel	

About "Audio Rcv" set of important note:

This system software by default, use [multicast] way send audio to the terminal, but the multicast way can't through when meeting the following two network situations .

A. LAN environment, the server and terminal is not in the same network segment (and the core switch



banned the multicast way through)

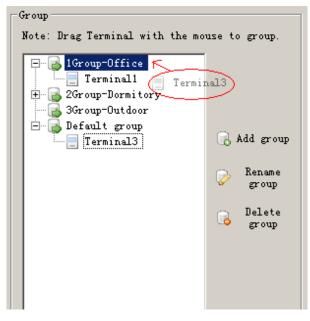
B. WAN environment

If the terminal in this two situations, please choose [unicast] way, or terminal can't broadcast voice.

3) In the right area of the "Terminal Setting" window is the "Group" box where groups can be added, renamed or deleted.

	Terminal setting [modify attributes or group of terminals]							
Г	Attribute				1 🖓	Group		
	Number:	30 • Up	date 📰	Edit		Note: Drag Terminal with	the mouse to gr	oup.
	ID	Name	From WAN			🕀 🔂 1Group-Office		
	- 1	Terminal1				🗄 🐻 2Group-Dormitory		
	2	Terminal2				🗄 🔂 3Group-Outdoor		
	3	Terminal3				🔤 🔂 Default group		
							Per	group name oup Lete oup

To assign certain terminals to specific group, select them from the "default group" and drag them to the desired group (e.g. Office)



4) Select "Basic Setting" window as shown in the following figure.

Sniffers: Assign a terminal as the monitor to monitor the system operation in the "Running Status" window. Timing automatically switches computer: to automatically turn off the computer at night and turn on in the morning.



🥝 Basic setting [set system parameters]	
-Bind Network Card	Task Interrupt Audio Out
Addr: 192.168.0.105 💌 Take effect	Priority Sound gradually increase.
Appoint Sniffers	Timing automatically switches computer
Sniffers: Not Use	Close: 0:00:00 🔹 🔽 Enable close
Note: Sniffers can be heard by listening to the sound terminal (except AOD).	Open: 🛒 Setting
Wireless remote control	Fire alarm device
SerialFort: No used 🔽 🧷 Take effect	SerialPort: No used 💽 🌈 Take effect

Workstation Account is to manage the accounts for the users who will use the workstation. User needs valid account and password to log on to the server with the workstation.

Γ	Works	tation accour	nts					
	Account Password		Password	Туре	Right of br		Add	
	8	Admin	admin	Adminstrator	* Priority2		8	account
							٨	Edit account
							&	Delete account
	·							



3.3 General Operation

The digital IP Network Public Address System performs the following major functionalities in its day-to-day use.

Timing ring (Managed by Server)—— The most basic functionality. It allows the music or bell to be played automatically at specified time, for instance, playing morning calls every weekday at 6:30 AM.

Timing program (Managed by workstation)—— Activated and specified by the workstation, automatically and in turn play multiple selected audio files at assigned time. This functionality is similar to the timing school bell, except timing school bell is managed by the server, whereas this is managed by the remote workstation.

Timing broadcast—— Automatically turn on the machine at scheduled time and capture /stream the audio to the network. Best for broadcasting live programs from external source such as news in the radio.

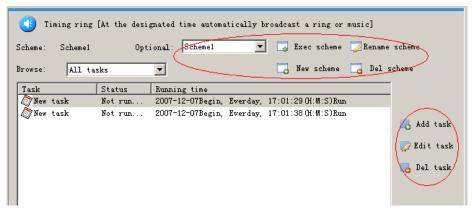
Live broadcast—— Stream the audio program or live speech/announcement to specified location.

Audio On Demand (AOD)—— Select and play audio files stored on the server via the remote control and its LCD. Every terminal can play separate audio file without interfering on another.

Running Status—— The running status of all the online terminals and ongoing tasks can be displayed in the system and also be modified or adjusted.

1) Timing ring (Manage by Server)

Click on "Timing ring" and a window looks like the figure below is presented. Press "New scheme" to create a new scheme, such as "day light saving time". To make the scheme current, press "Exec scheme".



On the right side of the window, press "Add Task" to pop up a dialog as shown in the following figure. Check all the desired target terminals; name the task, set the time, and assign the audio file for the task.



USER MANUAL

Add timing ring task	×
Add timing ring task	
Target terminal	Attribute Task name: New task Scheme: Chemel Timine O Time set 2007-06-26Begin, Everday, 16:31:39 Of.M:S)Run Audio file: File list Total: 00:00:00 Of:M:S) Expand Attribute Contain Mandatory switch signal
	Fower Amplifier only control Remote control: Empty
	OK Cancel

Click on "Time Setting" to pop up the dialog box. The duration can be left unspecified. In this case, the playing length in time will be the length of the audio file per se. Otherwise, if the duration specified is longer than the actual length of the audio file, the file will be replayed over and over until the specified duration is reached. If the duration specified is shorter than the actual audio file, the playing will be stopped once the time is up. The stop date can also be left unspecified.

Task timing set
Task timing set
Type Weekly tasks
Start Date: 2007. 6.26
Exec time: 16:31:39
Duration: 0 🗾 Min 30 😴 Sec 🗖 Designated
Stop date: 2007, 6, 27 🔽 🗖 Designated
Weeks: 🔽 Monday 🔽 Thursday 🗖 Sunday
🔽 Tuesday 🔽 Friday
🔽 Wednesday 🥅 Saturday
OK Cancel

2) Timing program (Manage by workstation)

It is supported to check any Program Timer tasks on the server; however, the major work regarding setting and editing tasks should be performed on the workstation. On the server, click on "Timing program" to open the corresponding window, which can be seen in the following figure. To check the detailed information, double-click on any line. Like the School Bell Timer, the Program Timer can also run automatically at the scheduled time. It can also be manually triggered if needed.



	Browse			the specified	time broadcast b	7 the worl	kstation set of pr	ograms	5]
I	Task		Owner	Status	Running time				
I	A Ne	w task	Admin	Not run	2007-06-26Begin,	Everday,	16:41:46(H:M:S)R		
								¢	Update
									View tas
									Del tasi

3) Timing broadcast

Automatically turn on the machine (or start the task) at scheduled time and capture /stream the audio to the network. Best for broadcasting live programs from external source such as news in the radio. The parameters for the soundcard and recording (such as the source, volume, etc) should be configured under the "Live broadcast" window which will be detailed in the following section. The operation process is similar to that for the School Bell Timer

4) Live broadcast

This functionality allows the user to capture the live sound with the soundcard and stream it to the network in real-time. The soundcard performs A/D transferring. A variety of sources are supported, such as the microphone, cassette, CD, etc.

🧾 Live broadcast [gather sound signals via s	sound card then broadcast]
Record setting	Target terminal
Sound card: [1]Realtek AC97 Audio [2]C-Wedia USB Sound Device	Office Dormitory Outdoor Gefault group
Source Stereo Mix 🔹	
Volume:	
Mix setting	
Wave: [Mute	
LineIn: Mute	
Min Max	
Note: the above volume suggest to be set in the middle of the region.	
Advanced options	
Sound quality: High 🔤 Example 1	Contain Mandatory switch signal
- Flayer	Contain mandatory switch signal
Open file II I	Start Stop broadcast

Procedure of Live broadcast (Support five soundcard broadcast simultaneous)

a). Specify the recording device.

The soundcard has the ability to mix audio from multiple channels (MIC, Line-in) into one output channel; it can also accept only one channel. Specifying the recording device is actually to specify the input (Stereo Mixer or single input channel)

Usually, Stereo Mix is recommended to allow all the input signals to be transmitted to the terminals. <u>Note:</u> <u>Different soundcards have different terms for "Stereo Mix". For example, while most of the integrated</u> <u>soundcards use "Stereo Mix" denote the function, the Creative's SB-Live soundcard uses "The sound</u> <u>you can hear" to indicate the same function.</u>





The recording volume shouldn't be set too loud for recording to prevent the sound distortion. It is recommended to set it to the middle position.

b). Specify the targeted terminals, and then press "Start broadcast".

5) Audio On Demand (AOD)

The audio files users can order are stored on the hard drive of the server. The menu that can be seen in the "Program Management" is also the one that will be displayed on the terminals LCD. Users can either manage these audio files on the server with the "Program Management", or add or delete files from the workstation. Please refer to Part VI for terminal operation.

Program manage[audio files can be played by Polder F. MF3 Files\ Current\	terminals or	broadcast automaticly :	
Name	Attribute	File length	
📶 And I. mp3	File	00:02:42(H:M:S)	
📝 AroundTheWorld. mp3	File	00:03:30(H:M:S)	
📝 breathless.mp3	File	00:03:25(H:M:S)	
📝 calling you mp3	File	00:05:00(H:M:S)	😋 Update
📝 Chansondetoile.mp3	File	00:04:02(H:M:S)	
📝 ciara_feat_ludacris=oh.mp3	File	00:04:16(H:M:S)	🔄 Add Folder
📝 eversleeping. mp3	File	00:03:40 (H:M:S)	
🚡 fading like a flower.mp3	File	00:03:52(H:M:S)	🔜 Add files
📝 Fallen Embers.mp3	File	00:02:31(H:M:S)	
📝 Get it over it.mp3	File	00:03:31(H:M:S)	📝 Rename
🚡 Goodbye to the circus.mp3	File	00:04:01(H:M:S)	
📝 I can't tell you why.mp3	File	00:05:11(H:M:S)	Delete
🚮 If Ya Gettin' Down.mp3	File	00:02:57(H:M:S)	Perete

6) Running Status

The "Running Status" window lists all the online terminals and their current states. To see the detail for any specific terminal (except for the terminal with ongoing AOD task, which can not be monitored), double-click the line where it is in. To monitor the sound being played by any specific terminal, single-click the line where it is in and then press "Monitor Terminal".

🔒 r	unning state [View terminals and workstation	ns running th	e state]	
		Volume control	×	(i) v	'olume) 💭 Monitor
ID	Name	Target: 🗌 All ter	minal	M Task	Source
- 1	Terminal1	🛨 🗹 🔂 Office	Volume	Idle	
2	Terminal2	🗄 🗖 🔂 Dormitory	12	Idle	
3	Terminal3	B-□ @ Outdoor └── © Default group	(RangeO-15)	Idle	
			😑 Save		



Part IV: Workstation Software Operation

4.1 Basic Operation

Users use workstation software to remotely log on the server via IP network (LAN, WAN) and manage the server. Workstation software is mostly used by users to perform real-time capturing, produce the audio files and schedule tasks. The figure below is the screenshot of the workstation software.

IP Metwork Public Add		stations - [admin	1								
System Icols View Hel	3										
R 🖉 🖸											
state .	Runnin	ag state	_	_		_	_	_			
Bunning state	Terninal							• Volt	• Vol-	C Undate	AutoUpdate (10x)
Real-time .	ID	Fane	IF Address	Status	Ve1	Audio Bev	Task	Source		Task Queue	
Live broadcast	1	Terminal1			5	Bulticast	Idle	278.00		0 task	140.
Issaed *	2	Terminal2			5	Bulticest				0 task	
G Tining program	3 2	Terminal3			5	Multicest	Idle			0 task	
Library											
O Trogram Manage											
	<u></u>										
	User	Date	Tine		Event						
	adain.	2012-11-0 2012-11-0	0 17:00:07 0 17:00:20	5	登录版	5 B [127.0.	.0.1] server[127.0	0.0.11			
	adain	2012-11-0	0 17:00:21	í	Login	to the ser	ver [127.0.0.	1]			
	1										CAP STIM SCHL
r Halp, press F1											FW ROBERT

4.2 Software Configuration*

The workstation configuration is easier compared to that of the server. Basically, user only needs to configure the server's IP address on the workstation. Procedure:

After executing the workstation software, user is prompted with a log in window that looks like the left figure below. Click on server address and then input the server's IP address (e.g., 192.168.0.6) in the textbox preceded by "server IP address" radio button. Also fill out the username and password textboxes (**default username/password is <u>admin/admin</u>**). After all the fields are filled out, press Login button. If all the information is correct, the workstation will now sign in the server.



User login			
	Usernam	e: admin	-
	Passwor	d: 00000	1
	1 435#01		
		🔽 Remembe	r me
Setup		Login	Cancel
Server	Address:	192 . 168	. 0 . 6
C Server	URL:		



4. 3 General Operation

1) Running Status

The "Running Status" window lists all the online terminals and their current states.

	ng state 1 list			_		_	♦ Vol+ ♦ Vol-	🎯 Update 🧮 AutoUpdate(10s
ID	Name	IP Address	Status	Vol	Audio Rev	Task	Source	Task Queue Talk
1	Terminal1			5	Multicast	Idle		0 task
2	Terminal2			5	Multicast	Idle		0 task
2 3 3	Terminal3			5	Multicast	Idle		0 task

2) Live broadcast

The process of this functionality is similar to that for the server. For details, please refer to Section 3.3 in Part III. Only the different part is detailed hereunder.

	Auvalice options	~
File:	Hode Provident at LAN C Browdent at WAN	
Title Overwrite Advance options	Quality Image: Provide the second	1
Advance options Mode: Broadcat at LAN Quality: High quality(192kbps)	C Basic quality (Schhps), for WAH (Dradband). C Low quality (Schhps), for WAH (Dial-up). C Winison quality (Schhps), for WAM (GPRS).	
Setting	職定 取消	J

Advanced Options: Since workstation can be used on both LAN and WAN, and normally LAN provides much more sufficient bandwidth than WAN does, for the workstation to perform better on the WAN, user can set the Advanced Options according to the specific network environment.

3) Timing progame

Program Timer enables automatic playback of multiple selected audio files at assigned time.

First, press "Add Task" button to activate the task wizard. Fill in the basic information at the first step, then click "Next". In the next window, specify targeted terminals, then click "Next". In the last window, specify the program playlist for this task. To complete, press "Finish" button.

4) Program Management

The Program Management on the workstation is to remotely manage the media stored on the server. As with the server, user can also use workstation to create folder, add, rename or delete audio files. To upload files to the server, click on "Upload" button. To download to the workstation, click "Download".

Part V: MP3 Programming Tools

MP3 Programming Tools can be used to produce user's own programs.

🤌 🛛 P3 Progr	amming tools		>
	Function: Transform WAV or freewil	l MP3 file to 120	3kbps MP3 file.
Format Transform	File list:	🔒 Add	🔒 Delete
	File name	Kind Size	Target file
Real-time Record			
Capture Track			
R			
File Split	Option		
1	Save folder: C:\ If target file is in existence:		<u> </u>
File Merge	Cover C Leap	C Append 'c	opy of ' to name
	Schedule:		
		Start	Stop

5.1 General Operation

1) Format Transform

To convert WAV format or MP3 files with other bit rate to standard 128kbps MP3.

2) Real-time Record

To convert audio from analog source (for instance, cassette) directly to MP3 in real-time.

3) Capture track(CD Ripper)

To extract raw digital audio from a compact disk and save in WAVE format file.

4)File Split

To segment the audio file into peaces or tailor the length of it.

5) File Merge

To combine multiple MP3 files with same sampling frequency and bit rate into a single file.



Part VI: Hardware Installation and Operation

6.1 Main control room equipment installation

Main control room is the center of the broadcasting system, particularly the system server may need 24-hour continuous operation, the design must conform to the following several principles:

1. In order to minimize the interference system, main control room should choose to stay away from electromagnetic waves;

2. Main control room power supply into line with the standard requirements of a good grounding to earth, grounding resistance should be less than 4 ohms;

3. Main control room should be chosen to the second floor or above floors;

4. Main control room suggested the installation of air-conditioning (temperature of 18-28 ° C, relative humidity of 40% -70%);

5. Recommendations main control room installed anti-static floor;

6. Main control room of decorative materials should use non-burning material or difficult combustion materials;



Control room sample

6.2 IP Network Audio AdapterTerminal installation

According to different applications, the IP digital network audio terminals into a variety of models, mixed use in engineering. Please refer to the "Terminal Instruction Manual".

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