

## **Contents**

1.	Introd	uction	3
	1.1.	Product Feature	3
	1.2.	Software System Requirement	3
	1.3.	Reference Application	4
	1.4.	Package List	5
2.	Panel i	ntroduce	6
	2.1.	Front Panel	6
	2.2.	Rear Panel	6
3.	Install	ation	7
	3.1.1.	Hardware Installation	7
	3.1.2.	Utility Installation	7
4.	<b>IP</b> Aud	liocast Manager1	0
	4.1.	Interface description	1
	4.2.	Start to use	1
	4.2.1.	Play Background Music1	2
	4.2.2.	IP Audiocast Manager Info1	2
	4.2.3.	Make Announcements1	3
	4.2.4.	Manage Zones1	3
	4.2.5.	Configure an IAT-10001	4
	4.2.6.	Set the IP Address of an IAT-10001	6
	4.2.7.	Activate and Deactivate an IAT-10001	7
	4.2.8.	Main feature – System1	7
	4.2.8.1	. Edit Playlist1	7
	4.2.8.2	Edit Schedule	8
	4.2.9.	Main feature – Play1	8
	4.2.10.	Main feature – FTP1	9
	4.2.11.	Help	1
5.	<b>FAQ</b>	2	1

## 1. Introduction

#### Easy deployment background music system

The IP Audiocast Terminal from LevelOne (IAT-1000) is an ideal component to a flexible and powerful audio network covering a wide area. Old technology that uses regular twisted pair wiring is cumbersome and difficult to deploy. By using Cat.5 infrastructure that is already in place in many building, LevelOne's IP Audiocast Terminals are cost-effective solutions to help you build your large scale audio network

#### **Powerful Broadcast Streaming Manager**

Managing your audio network has never been easier. Using LevelOne's IP Audiocast Manager (software) together with the IP Audiocast Terminals (hardware) provides a robust audio solution. The IP Audiocast Manager uses broadcast streaming technology to efficiently send the audio signals to each IAT-1000 terminal on the network. As a result, every IAT-1000 terminal efficiently receives any MP3, WAV, playlist (M3U), or live announcement that is streamed over the Ethernet network. In addition, each zone can be scheduled to receive an audio signal that is different from the others. This provides administrators with ultimate flexibility in streaming audio to different zones of the building.

#### **1.1. Product Feature**

- Simple to use audio terminal ideal for background music and paging system
- Schedule different playlists in different zones
- Search, configure, and manage all Audiocast Terminals from a central location
- Stream high-quality stereo audio signals
- 100% Compatible with MP3 and WAV sound format
- Lossless Transmission and 100% Fidelity.
- Using NetUSB (USB Over IP), work around the DRM issues of streaming Internet music sources
- Control form both local and remote locations via TCP/IP(RJ-45)

#### 1.2. Software System Requirement

- Operation System with Windows 2000 ,XP , 2003 and Vista
- PC with Pentium Intel Pentium IX 2.4G or above is recommended
- Ram need 1GB or above
- Hard Disk space need 30MB or above
- One CD-ROM drive

## **1.3. Reference Application**

Background music and live announcements are enquired functions in a number of environments:

Large offices & business complexes, Airport and transit centers Shopping malls, Theme parks, Hotels, Campus and dormitory, Theater



## Advance application with Internet FTP download



## Advance application for shopping mall

Shopping Mall(single level drawing)



## 1.4. Package List

IAT-1000 Power Adapter CD/Manual QIG

## 2. Panel introduce

## 2.1. Front Panel



#### LED indicator

Power	<b>On</b> - Normal operation.
	Off - No power
Link	<b>On</b> - Normal operation.
	Off - No link
Active	Blinking - Blinks during data transfer
	Off - No link
Status	<b>On</b> - Normal operation (no data transfer).
	Blinking - Blinks during data transfer
	Off - No link

Power Button

## 2.2. Rear Panel



Please notice although the IAT-1000 has 3 types of speak-out port, but the voice only support one speak-out simultaneously.

## **3. Installation**

#### **3.1.1. Hardware Installation**

Select a suitable location for the IAT-1000. To maximize reliability and performance, follow these guidelines:

- Use an elevated location. (i.e. On the top of a cubicle, or mounted on the wall.)
- Turn on the IAT-1000 in where have a power, RJ-45 and stereo system.

NOTE: the IAT-1000 default IP address is DHCP client, so after turn on the IAT-1000 and connect with local network, it will search the DHCP server, if not found, the IAT-1000 will change to default Static IP (192.168.1.100).

## **3.1.2.** Utility Installation

NOTE: all the snapped images of installation mentioned in this manual are based on Windows XP. For other windows operating system, all the procedures are the same but the screens are not the exactly same.

- 1. Turn on the computer with network connection to IAT-1000. Insert the CD into the CD-ROM Drive. Please click the "Install".
- 2. InstallShield Wizard will automatically start. Please click "Next" to continue.



3. Enter the name and organization, and then click "Next" to continue.

📅 IP Audiocast Manager - InstallShield Wizard	X
Customer Information	
Please enter your information.	
User Name:	
USER	
Organization:	
USER	
InstallShield	
< Back	ext > Cancel

## 4. Please click "Next" to continue.

🛃 IP Audio	ocast Manager - InstallShield Wizard 🛛 🔀				
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.					
	Install IP Audiocast Manager to: C:\Program Files\LevelOne\IP Audiocast Manager\				
InstallShield -	< <u>B</u> ack <u>N</u> ext > Cancel				

5. Please click "Install" to continue.

🤯 IP Audiocast Manager - InstallShield Wizard	$\mathbf{\overline{N}}$
<b>Ready to Install the Program</b> The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. exit the wizard.	Click Cancel to
Tectal/Shield	
< <u>Back</u> Install	Cancel

## 6. Please click "Finish"



## 4. IP Audiocast Manager

NOTE: If you had brought **IAT-1920** or **IAT-1900**, pleas find the **USB Key License** and plug in the computer before running manager software, the software will auto detect the USB Key License, if the utility do not detect the USB Key, then it will be only Manager Lite – 7 License(current active terminal), if utility had detect the USB Key(there have 2 level of license: 20 or unlimited), then the utility will update the license with advance feature.

This is Manager Lite with 7 License

📕 Manager Lite 7 License - IP A	udiocast Manager		🛛
<u>S</u> ystem <u>P</u> lay <u>F</u> TP <u>H</u> elp			
	Curren	t Zone : default t File : / Licence : 1 / 7	
Zone	Name	IP Address	Active
default	IAT-1000	192.168.50.104	<b></b>

This is IAT-1920 with 20 License

🛱 IAT-1920 - IP Audiocast Mana	ager 20 License		
<u>System Play ETP H</u> elp			
	Current	Zone : default File : / Licence : 1 / 20	
Zone	Name	IP Address	Active
default	IAT-1000	192.168.50.104	<b>√</b>

This is IAT-1900 with unlimited License

📕 IAT-1900 - IP Audiocast Mana	ager unlimited License		🛛
<u>S</u> ystem <u>P</u> lay <u>E</u> TP <u>H</u> elp			
<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Currenl	:Zone : default :File : / Licence : 1 / Unlimited	
Zone	Name	IP Address	Active
default	IAT-1000	192.168.50.104	<b>√</b>



#### 4.2. Start to use

Please make sure below item before start!

- 1. Connect the IAT-1000 to a stereo system or powered speaker.
- 2. Connect the IAT-1000 to the local network.
- 3. Power on the **IAT-1000**.

#### Notice:

- 1. If you have buy IAT-1900/1920, please plug-in the USB Key License before running software.
- 2. please make sure the IAT-1000 and the Manager Lite/IAT-1900/1920 are the same IP segment, other it will no voice out via IAT-1000

Turn on the computer with **IP Audiocast Manager** and check the **IP Audiocast Manager** had shows the **IAT-1000**. (Click **Start**  $\rightarrow$  **LevelOne**  $\rightarrow$  **IP Audiocast Manager** to open the **IP Audiocast Manager**.)

🛱 Manager Lite 7 License - IP A	udiocast Manager		_ 🗆 🔀
System Play ETP Help			
	Curren	t Zone : default t File : / Licence : 1 / 7	
Zone	Name	IP Address	Active
default	IAT-1000	192.168.50.104	1

## 4.2.1. Play Background Music

Each **IAT-1000** belongs to a **Zone** (the default **Zone** is **default**.). All the **IAT-1000s** in a **Zone** receives the same music or announcement broadcast from the **IP Audiocast Manager**.

For IAT-1920, it's 20 Zones, for IAT-1900, it's unlimited zones.

1. Click A on the menu bar to open an mp3, a wav file, or an m3u playlist

Zone default	Look in: My Recent Documents Desktop	Just Push Play 0101 Beyond Beautiful 0102 Just Push Play 0103 Jaded 0104 Fly Away from Here 0105 Trip Hoppin' 0106 Sunshine 0107 Under My Skin	+ © ở		Active
	My Documents My Computer	008 Luv Lies 009 Outta Your Head 10 Drop Dead Gorgeous 11 Light Inside 12 Avant Garden			
	My Network	File name:	<u>×</u>	Open	

Click ▶ on the menu bar to play back the music. Click ■ to pause the playback, ■ to stop the playback, ◀ to play back the previous song, or ▶ to play back the next song.

## 4.2.2. IP Audiocast Manager Info

🖬 Manager Lite 7 License - IP Audiocast Manager					
<u>System Play ETP H</u> elp					
	Curren	:Zone : default :File : 2.MP3 /Licence : 1 / 7			
Zone	Name	IP Address	Active		
default	IAT-1000	192.168.1.100	1		

There is a info column in the right-up corner of IP Audiocast Manager, it displays which Zone is choose, which song is played, how many IAT-1000 is active.

### 4.2.3. Make Announcements

- 1 Connect a microphone or a headset to the Windows PC running the **IP Audiocast Manager**.
- 2 Click 🔊 on the menu bar and the **Announce Dialog Box** pops up.
- 3 Choose a recording device from the **Audio Recording Devices** and select the **Zones** to announce.
- 4 Click **Announce** on the **Announce Dialog Box** to start the announcement.

👖 Manager Lite 7 License -	🕺 Announce 📃 🗖 👌	3 💶 🗖
System Play ETP Help	Audio Recording Devices SoundMAX HD Audio Select all default	Active
	Announce	

5 Click **Stop** on the **Announce Dialog Box** to stop the announcement.

## 4.2.4. Manage Zones

For IAT-1900/1920 only

Right-click on a **Zone** and click **Add** to create a new **Zone**, **Delete** to delete an existing **Zone**, or **Rename** to give a new name to a **Zone**.

👖 IAT-1920 - IP	Audiocast Mana	iger 20 License		🛛 🔀
<u>System</u> <u>P</u> lay ETP	Help			
2			Current Zone : default Current File : Active / Licence : 1 / 20	
Zone		Name	IP Address	Active
default	Add Delete Rename	IAT-1000	192.168.1.100	

👖 IAT-1920 - IP Audiocast Mana	ager 20 License		
<u>S</u> ystem <u>P</u> lay <u>E</u> TP <u>H</u> elp			
	Curren	t Zone : t File : / Licence : 1 / 20	
Zone	Name	IP Address	Active
Zone000			
Zone001			
Zone002			
Zone003			
Zone004			
Zone005			
default	IAT-1000	192.168.1.100	1

For different Zone, IP Audiocast Manager will display in different colors.

## 4.2.5. Configure an IAT-1000

- ※ Please make sure the computer with Manager Utility have to be the same IP segment with IAT-1000, first. Otherwise may not save the configuration.
- Right-click on an IAT-1000 to change its Name, Firmware, or Change Zone for its configuration.

👖 Manager Lite 7 License - IP A	udiocast Manage	J.		
<u>System Play ETP H</u> elp				
		Current Current Active	Zone : default File : / Licence : 1 / 7	
Zone	Name		IP Address	Active
default	IAT-1000	Rename Firmware Change Zone 🕨	192.168.1.100	<b>~</b>

Click Rename and the Server Name Dialog Box pops up. Enter a Name and click OK.

👖 IAT-1920 - IP Audiocast Man	ager 20 License		
System Play ETP Help			
	Curren	t Zone : t File : /Licence : 0/20	
Zone	Name	IP Address	Active
Zone000			
default		100 100 1 100	
	Server Name		
	IAT-1000 Name ' [AT-1000	15 letters [max]	
	ОК	Cancel	

- Click **Firmware** and the Firmware Dialog Box pops up.
  - Click **Restart Server** to restart the IAT-1000,
  - Click Factory Default to reset the IAT-1000's settings to its factory defaults
  - Click **Open** to upgrade the firmware to the IAT-1000.

👖 IAT-1920 - IP Audiocast Mar	nager 20 License
<u>System Play ETP H</u> elp	
	Image: Current Tone :         Description :         Current Zone :         default           Current File :         Active / Licence :         1 / 20
Zone	
Zone000	
default	
	Current Firmware Version : 1.021
	Upgrade System Firmware
	New Firmware File : File Size : O bytes
	0%
	<u>C</u> lose

Click **Change Zone** and select a new Zone for the IAT-1000.

🛱 IAT-1920 - IP Audiocast Mana	iger 20 License			
<u>S</u> ystem <u>P</u> lay <u>E</u> TP <u>H</u> elp				
		Current Current Active	Zone : default File : / Licence : 1 / 20	
Zone	Name		IP Address	Active
Zone000				
default	IAT-1000	Rename	192.168.1.100	<b>V</b>
		Firmware		
		Change Zone 🕨	Zone000	
			default	

### 4.2.6. Set the IP Address of an IAT-1000

Right-click the **IP Address** and click **Set Network**. The **Set Network Dialog Box** pops up.

👖 IAT-1920 - IP Audiocast Mana	ager 20 License	-	
<u>System Play F</u> TP <u>H</u> elp			
	Curreni Curreni Active	t Zone : default t File : / Licence : 1 / 20	
Zone	Name	IP Address	Active
Zone000			
default	IAT-1000	192.168.1.100 Set Network	ſ

An IAT-1000 can be set to the DHCP Mode or the Static IP Mode.

An **IAT-1000** defaults to the **DHCP Mode**. After power on, an **IAT-1000** attempts to get an **IP address** from a DHCP server on the network. If the **IAT-1000** cannot get an **IP address**, the **IAT-1000** assumes the **IP address** of 192.168.0.100.

If the **Static IP Mode** is selected, enter the **IP Address** and the **Subnet Mask**.

👖 IAT-1920 - IP	Audioant Manager 20 Liegans	
<u>S</u> ystem <u>P</u> lay <u>E</u> T		1
Zone	Set TCP/IP Configuration           Image: Set TCP/IP Configuration	vctive
Zone000	<ul> <li>Automatically get IP by DHCP</li> </ul>	
default		•
	O Static IP	
	IP Address 192 168 1 100	
	Subnet Mask 255 255 0	
	Heset Apply Llose	

## 4.2.7. Activate and Deactivate an IAT-1000

At the same time, up to 20 **IAT-1000s** can be activated to receive broadcasts from the **IP Audiocast Manager**. Click the **Active** column on the **IP Audiocast Manager** to activate or deactivate an **IAT-1000**.

IAT-1920 - IP Audiocast	Manager 20 License		
		Current Zone : default Current File : Active / Licence : 2 / 20	
Zone	Name	IP Address	Active
Zone000			
default	hello world sea	192.168.0.10	1
default	default rene00		
default	test	192.168.0.24	<b>~</b>

### 4.2.8. Main feature – System

🖪 IAT-1920 - IP Audiocast Manager 20 License 📃 🗖 🔀					
<u>System Play E</u> TP	<u>H</u> elp				
Edit <u>P</u> laylist Edit <u>S</u> chedule E <u>x</u> it		Curre	nt Zone : nt File : e / Licence : 0 / 20		
Zone		Name	IP Address	Active	
Zone000					
default		IAT-1000	192.168.1.100		

#### 4.2.8.1.Edit Playlist

Click **System** on the menu bar and click **Edit Playlist**. The **Edit Playlist Dialog Box** pops up. Click **Open** to open an existing playlist, **Save** to save the edited playlist, **Add File** to add a music file to the playlist, and **Delete File** to delete a music file from the playlist.

t Playlist		
Open	Save Save As	
02 Just Push Pla 03 Jaded mp3 06 Sunshine.mp3	Location C:\admp3\Uust Push Play\02 Just Pu C:\admp3\Just Push Play\03 Jaded C:\admp3\Just Push Play\06 Sunshin	
Add File	Delete File	Confirm

## 4.2.8.2.Edit Schedule

For IAT-1900/1920 only

Click **System** on the menu bar and click **Edit Schedule**. Then the **Edit Schedule Dialog Box** pops up. Enter the parameters of each scheduled music playback and click **Add Schedule**. Click **Confirm** to save the **Schedules**.

Edit Sche	dule								×
Schedule	View						Edit Schedule	е	
Name	Time	Zone	Event	Playlist	Enable	Mode	Name		
							Date	9/18/2008	
							Time	17:33	
							Zone		✓
							Event	Play Music	
							Playlist		
									Open
							Play Mode	Once	
							Enable	Yes 🔽	
								Set	Add Schedule
						)elete			Confirm
						- Grosse			<u></u>

## 4.2.9. Main feature – Play

Click **Play** on the menu bar and click **Repeat**, then the play music will repeat If you want to stop the base music, it can click **Stop Base Music**.

🛒 IAT-1920 - IP Audiocast Manager 20 License					
<u>System Play</u> ETP <u>H</u> elp					
Repeat Stop Base Music	Image: Current Zone : default           Current File : 1.MP3           Active / Licence : 1 / 20				
Zone	Name	IP Address	Active		
Zone000					
default	IAT-1000	192.168.1.100	<b>V</b>		
L					

For IAT-1900/1920 only

#### 4.2.10. Main feature – FTP

Click **FTP** on the menu bar and click **Open FTP**.

👖 IAT-1920 - IP Audiocast Manager 20 License						
System Play <mark>ETP</mark> Help						
	Image: Constraint of the second sec	Current Zone : Current File : Active / Licence : 1 / 20				
Zone	Name	IP Address	Active			
detault	1AT-1000	192.168.1.100				

Then the **FTP Dialog Box** pops up. Enter the Host, Port, User Name, Password, Remote Dir for downloading files and click **Open** to open a Local Dir for saving downloaded files. Choose the **Download Time** or **At Once**, click **Apply**, FTP will download files from Remote Dir to Local Dir at the designated time. If user wants to stop download, click **Stop**.

FTP				
FTP Information 1. Fill in the FTP parameter	FTP File			
	FileName	Size	ModifiedDate	
Host 192.168.1.19		0	2008/10/2下午 03:27:00	
Port 21	 house test.TXT	U 3879	2008/10/2下午 03:27:00 2008/10/13下午 05:36:00	
	01 .mp3	14730366	2008/9/9下午 05:04:00	
User Name admin	U2.mp3 Schedule.ini	14730366 398	2008/10/14 下午 07:00:00 2008/10/17 上午 11:44:00	
	03.mp3	14730366	2008/10/20 上午 11:06:00	
Password admin	107 mp3	U 64566942	2008/10/21 上午 11:02:00 2008/10/21 上午 11:03:00	
	IATZone.Ini	46	2008/9/5下午 02:35:00	
Remote Dir /usb2_d1p1/test1				
Local Dir E:\test				
2. Fill in the downliad parameter	ETD Status			
	11:04:01 Starting F1F transfer			
Download Time	11:54:32 Transfer complete			<u> </u>
O Date	11:54:32 Starting FTP transfer			
○ Everyday	11:54:32 Starting FTP transfer			
() At Dage	11:54:32 Transfer complete			_
Aronce	11:54:32 Starting FTP transfer			
2000 H 0 107	11:54:32 Starting FTP transfer			
2008/10/27	11:54:33 Transfer complete			×
11:52	Download File	IATZone.Ini	100%	
	Download File : E:\test\02.mp3	}		~
Stop	Download File : E:\test\Schedu	ule.ini		
	Download File : E:\test\playlis	st.m3u		
4. It can be stopped 3. after fill in a	ll parameter, must	} pelni		
auring the process push "Apply"	to effect the setting	10.111		~

Notice: the IAT-1900/1920 can 100% compatible with Level1's FTP device. Notice: for the file name, the FTP only supports English and number character.

#### Here is the Level1's internet solution for reference

#### Internet solutions can work with LevelOne's FTP device

- WAP-0008 (internal HDD)
- FNS-1020 (internal HDD)
- FPS-3003 + external USB-HDD (up to 2 USB devices)

Notice: Do not guarantee compatible with other FTP device!

#### Remote Control with KVM-9000

this is a IP-KVM and support remote control to IAT-19xx in different location via Internet.









WAP-0008

FNS-1020

FPS-3003

KVM-9000

#### Here is the internet FTP download application for reference



## 4.2.11. Help

Click **About** on the menu bar and click **Help**. Then the **IAT-1000 Info Dialog Box** pops up.



# **5. FAQ**

Q: Why the speaker connected to IAT-1000 doesn't work?

A: please notice the IAT-1000 only support to connect powered speaker or via an amplifier to connect non-powered speaker.

Q: Why the speaker no any voice out but the IAT-1000 had working?

A: please make sure the IAT-1000 and IAT-1900/1920 are the same IP segment first.

Q: Why the Utility cannot find the IAT-1000?

A: please make sure few items

- 1. The IAT-1000 had connected on the intranet well.
- 2. No any LAN Switch block the broadcast packet