



# **IP Audio Center v2.0**

## **Installation Guide**



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# 1. Preface

## 1.1 Audience

This manual is intended to provide clear operating instructions for those who will configure and manage the IP Audio Center. By carefully reading and consulting this guide, users could solve the installation and deployment issues of the IP Audio Center.

## 1.2 Revision History

Document Version	Applicable Firmware Version	Update Content	Update Date
2.0.1	2.0.1	Updated installation instructions for software version v2.0.1	June,2025

## 2. Overview

### 2.1 Software Overview

IP Audio Center is the engine of ZYCOO IP Audio Solution, it is a software solution that can be installed on hardware or cloud-based servers. It has IP public address system, SIP voice/video intercom and IP PBX system modules integrated, it provides an all-in-one unified IP audio solution.

The IP Audio Center provides centralized IP audio endpoints auto-provisioning and management, public address, background music, intercom, emergency broadcasting, audio conferencing, IP phone call and more features. It is suitable for public safety, smart city, secure community, industry, transportation, health and more application scenarios.

### 2.2 Server Selection

System Capacity		Recommended configuration			
		CPU	RAM	Network Adapter	Storage
1	Maximum number of endpoints: <b>100</b>  Streaming broadcast concurrency: <b>Fully concurrent</b>  Number of concurrent Paging/Intercoms/Conferences: <b>50</b>	2 Core	4 GB	1000Mbps	120 GB

2	<p>Maximum number of endpoints: <b>300</b></p> <p>Streaming broadcast concurrency: <b>Fully concurrent</b></p> <p>Number of concurrent Paging/Intercoms/Conferences: <b>100</b></p>	4 Core	4 GB	1000Mbps	500 GB
3	<p>Maximum number of endpoints: <b>500</b></p> <p>Streaming broadcast concurrency: <b>Fully concurrent</b></p> <p>Number of concurrent Paging/Intercoms/Conferences: <b>200</b></p>	4 Core	8 GB	1000Mbps	1 TB
4	<p>Maximum number of endpoints: <b>1000</b></p> <p>Streaming broadcast concurrency: <b>Fully concurrent</b></p> <p>Number of concurrent Paging/Intercoms/Conferences:</p>	6 Core	8 GB	1000Mbps	Recommended to use disk arrays

	<b>300</b>				
5	<p>Maximum number of endpoints: <b>2000</b></p> <p>Streaming broadcast concurrency: <b>Fully concurrent</b></p> <p>Number of concurrent Paging/Intercoms/Conferences: <b>500</b></p>	8 Core	16 GB	1000Mbps	Recommended to use disk arrays
6	<p>Maximum number of endpoints: <b>4000</b></p> <p>Streaming broadcast concurrency: <b>Fully concurrent</b></p> <p>Number of concurrent Paging/Intercoms/Conferences: <b>500</b></p>	8 Core	32 GB	1000Mbps	Recommended to use disk arrays

## 3. ISO Offline Installation

### 3.1 Procedure

#### 1. Select a server

For hardware or virtual servers, you need to refer to the server configuration recommendation table mentioned above to select a suitable server.

#### 2. Download the system image ISO file

ISO file download link:

[https://www.zycoo.com/downloads/iso/Zycoo-IAC-x86\\_64-Full-KS\\_latest.iso](https://www.zycoo.com/downloads/iso/Zycoo-IAC-x86_64-Full-KS_latest.iso)

#### 3. Prepare a 4GB or larger USB flash drive

If the IP Audio Center will be installed on a hardware server, you need to prepare a USB flash drive to create a USB boot disk.

#### 4. Make the USB boot disk (Windows software)

Tool download address: <https://github.com/pbatard/rufus/releases/download/v4.9/rufus-4.9.exe>

The USB boot disk creation tool is used to create a USB boot disk and install the IP Audio Center on the hardware server.

If you want to install the IP Audio Center on a virtual server, you don't need to prepare a USB boot disk. Users can directly use the virtualization software.

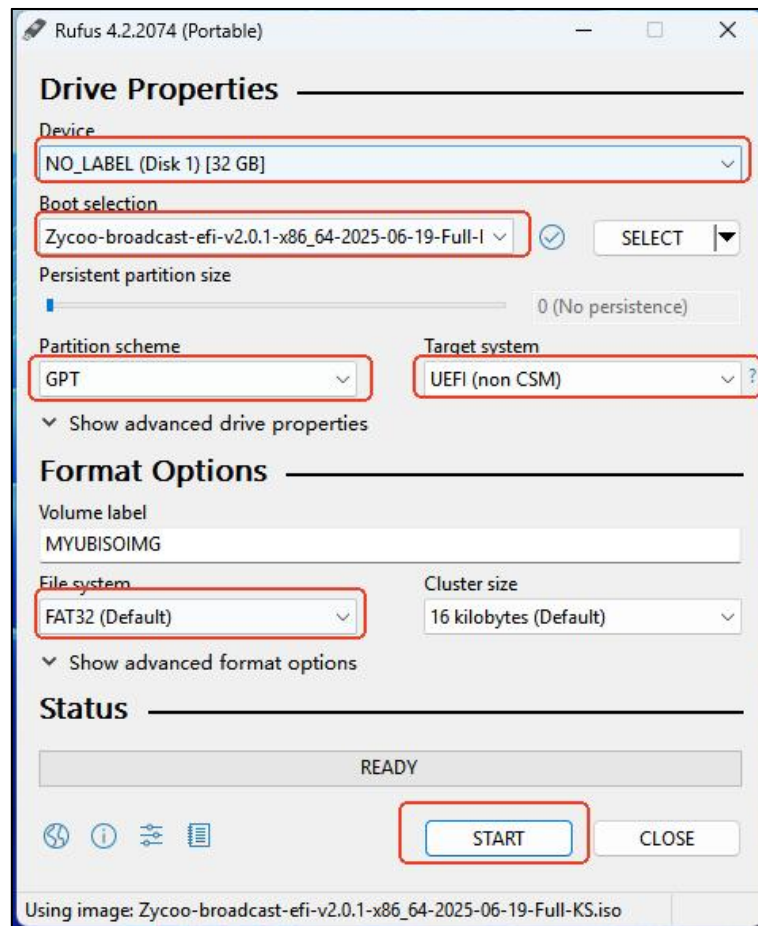
Directly use the ISO file for installation.

### 3.2 Make a USB boot disk

Use a PC with Windows system, plug in the prepared USB flash drive, install and run the recommended USB boot disk creation tool to create a USB boot disk.

1. Select the downloaded ISO file.
2. Select the prepared USB flash drive.

3. Select GPT as partition scheme, UEFI as target system and FAT32 as file system.
4. Click the Start button to start creating USB boot disk. Normally, the entire process will be completed within 10 minutes. Please do not unplug the USB flash drive or close the program during this process.



### 3.3 Install IP Audio Center

1. Insert the USB boot disk into the USB port of the hardware server.
2. Turn on the server and press the key to enter the BIOS or UEFI settings. Different servers may have different key. Please refer to the server manual or consult the dealer.
3. Select USB boot, optional BIOS installation or UEFI installation.
4. Enter the fully automatic installation process. Please wait patiently and do not power off the server or perform any other operations during the installation process.



5. After the installation is completed, the server will automatically restart. Please unplug the USB boot disk in time to prevent repeated installation. At this time, if the server is not connected to the LAN, please connect the server to the Internet.

## 3.4 Login the Web Management Interface

After the IP Audio Center is installed and restarted, the system command line login interface will be entered, and the IP address obtained by the current system will be displayed, as shown in the figure below.

The background login user name of the IP Audio Center is **root**, and the default login password is **IPAudioCenter@zycoo.com**, please change the root password in time after logging in to ensure system security.

Open browser on another computer on the LAN and enter the address to access the IP Audio Center Web management interface, the default login username and password of the Web interface are admin/admin.

*Note: If the IP Audio Center is installed on a virtual machine, it can be installed directly using the ISO image without making a USB boot disk. The network mode of the virtual machine needs to be set to bridge mode.*

*After the installation is completed, the virtual machine will automatically restart. Please disconnect the ISO image in time to prevent the installation process from being repeated.*



```

ZYCOO
Current Network Configuration
+-----+-----+-----+
| Interface | MAC Address | IP Addresses |
+-----+-----+-----+
| eth0      | 88:8C:29:5A:43:2A | 192.168.11.241 |
+-----+-----+-----+

Please note most tasks should be handled through the GUI. You can
access the GUI by typing one of the above IPs in to your web browser.
For support please contact:
Email: support@zycoo.com

*****
* This machine is not activated when you just finished installing. *
* Activating your system ensures that your machine is eligible for *
* support and that it has the ability to create more extensions.   *
* please go to Activation (which is on the Settings->License page *
* in the Web UI)                                                  *
*****

Warning: This is ZYCOO IP Audio Center System CMD! If you are not a
system administrator, please leave now!
zycoo-broadcast login: _

```

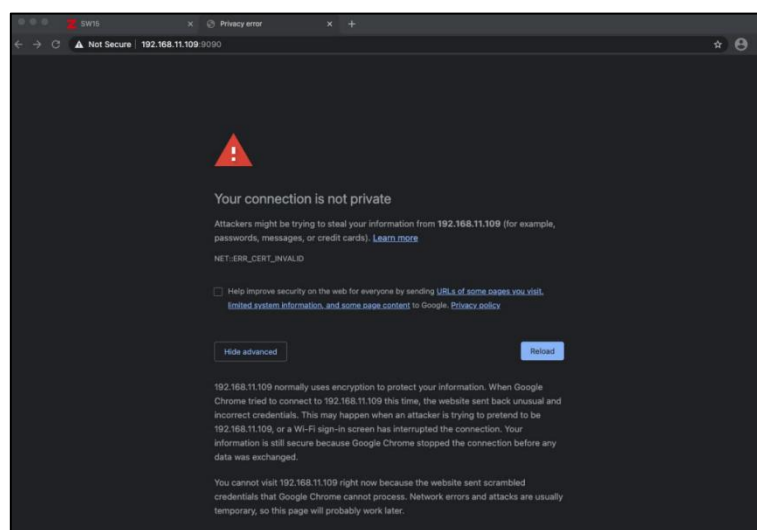
### 3.5 Login the Web Maintenance Interface

The system maintenance interface is usually a user interface provided to technicians to configure and maintain the system.

The access port of the maintenance interface is **9090**. If your server address is 192.168.11.241, the access address of the system maintenance interface is:

<https://192.168.11.241:9090>

After successful access you will see:



In this interface you need to enter directly through the keyboard: *thisisunsafe*

After successful entry, you will see the login interface.

The default username and password of the system maintenance interface are consistent with the background login account.

**Username: root**

**Password: IPAudioCenter@zycoo.com**

*Note: For the security of your system, please change the default password in time.*

Through the system maintenance interface you could:

- **Add Zycoo docker private repository insecure-registries.**
- **Check system performance consumption**
- **View system logs**
- **Modify network address**
- **Modify system time**
- **Modify NTP configuration**
- **Backup/restore system configuration**
- **Convenient command line operations**

## 4. Online Installation

### 4.1 Install Docker and Related Environments

Install Docker and Docker-compose tools on the host machine. The installation process will not be introduced in this document.

### 4.2 Install IP Audio Center

- **Add Zycoo docker private repository insecure-registries.**

1. **Edit /etc/docker/daemon.json file**

Add the following contents { "insecure-registries":["120.27.216.154:5001"] }

2. **Restart Docker**

systemctl restart docker

3. **Login to the Zycoo docker private repository**

Docker login 120.27.216.154:5001

Username: registry

Password: ui

- **Download the project**

1. **Project Address**

<http://bc.zycoo.com:3000/broadcast-docker/broadcast-system.git>

2. **Clone project repository**

git clone -b master\_v2 --single-branch <http://bc.zycoo.com:3000/broadcast-docker/broadcast-system.git>

Username: pullcode

Password: Zycoo2019

3. **Modify the time zone**

The default time zone is Asia/Chongqing, if you need to modify the time zone, enter the project's git directory and edit the TZ variable in the .env file to modify the time zone.

4. **Run the project**

docker-compose up -d

## 4.3 Login the Web Management Interface

Open browser on another computer on the LAN and enter the IP address of the host computer to access the Web management interface of the IP Audio Center.

The default login username and password are admin/admin.

*Note: This project will occupy the following ports of the host. Please be careful to avoid conflicts with the existing service ports of the host. If there are already services,*

*The following ports, please edit the .env file to modify the corresponding port*

*TCP port: 80,443,554,1883,8000,8001,8089*

*UDP port: 554,5060,10001~12000*

