SIP Function Demonstration of IP Speaker

1. Configuration on Sip Server

Install **miniSIPServer** on PC as test SIP server (other SIP servers which support standard SIP protocol also can be used).

miniSIPServer software official site: https://www.myvoipapp.com/download/index.html

MYVOIPAPP   Buy now!

Download

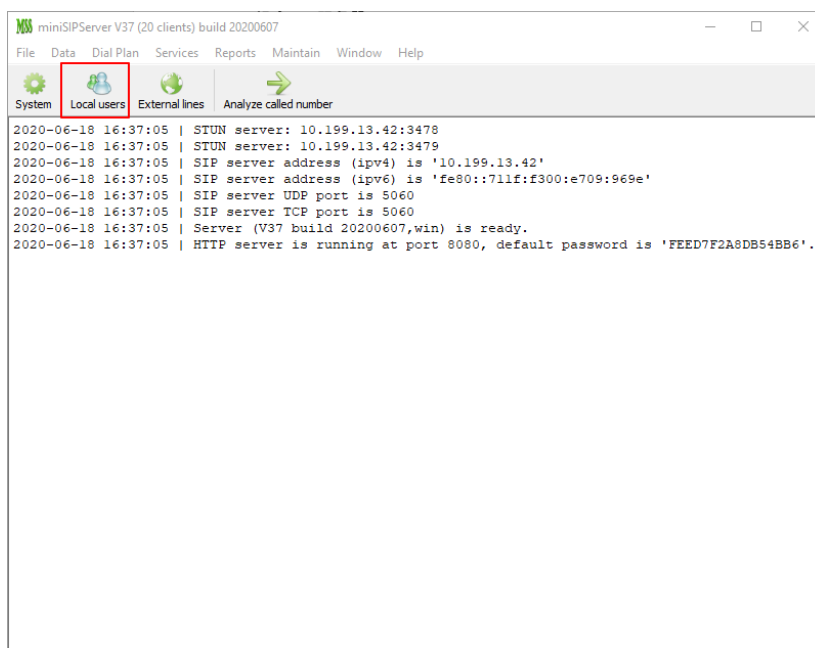**miniSIPServer V37 (build 20200619)**

- If you need special version to support more than 500 SIP clients/phones, please contact us.
- All versions are **30 days** free trial without restrictions.
- Please visit here to get history versions.
- Please refer to "Run miniSIPServer on Linux" if you want to run miniSIPServer on Debian or Ubuntu systems.
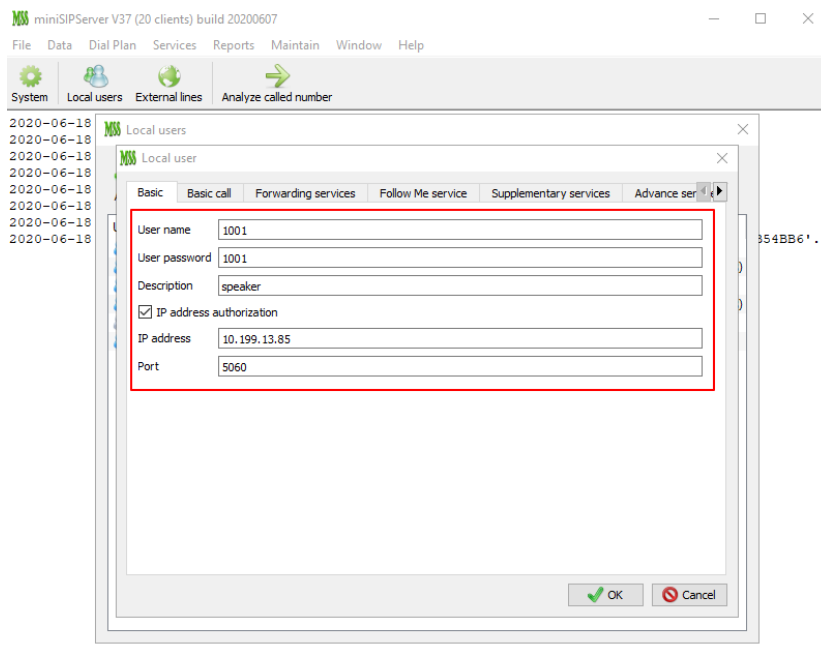- Please refer to "Run miniSIPServer on Raspberry Pi" if you want to run miniSIPServer on Pi.

For Windows	20 clients	50 clients	100 clients	300 clients	500 clients
For Debian/Ubuntu (64-bit)	20 clients	50 clients	100 clients	300 clients	500 clients
For Raspbian	20 clients	50 clients			

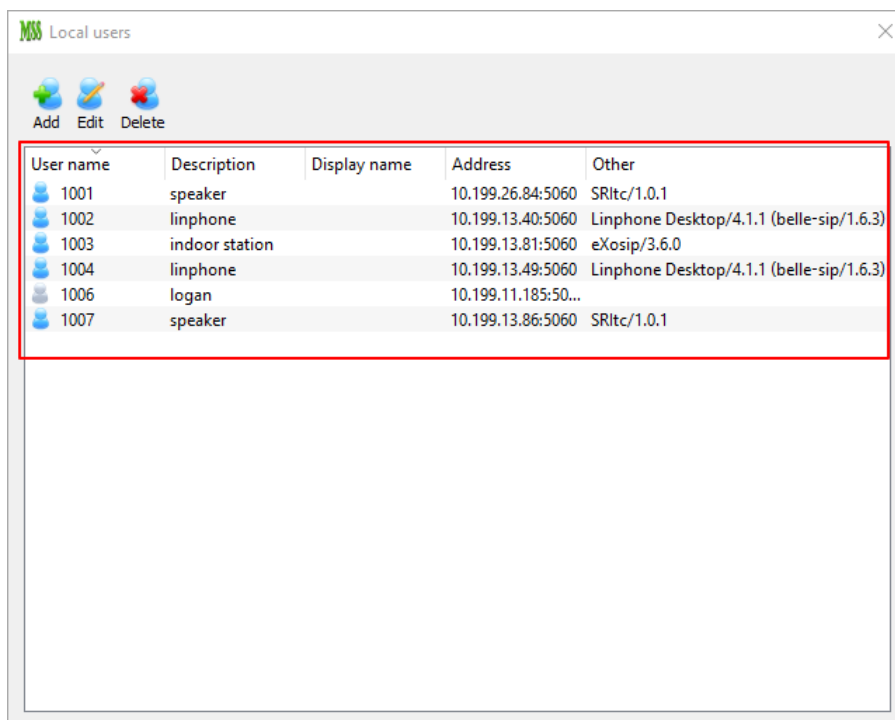For this demonstration, SIP server's IP is 10.199.13.42 (PC's address).

After SIP software installation, click **Local Users** to add/delete/modify a local user (local user can be indoor station, IP Speaker, soft phone, IP phone which support standard SIP protocol).

```
MSS miniSIPServer V37 (20 clients) build 20200607                    —    □    ×

File   Data   Dial Plan   Services   Reports   Maintain   Window   Help

System   Local users   External lines   Analyze called number

2020-06-18 16:37:05 | STUN server: 10.199.13.42:3478
2020-06-18 16:37:05 | STUN server: 10.199.13.42:3479
2020-06-18 16:37:05 | SIP server address (ipv4) is '10.199.13.42'
2020-06-18 16:37:05 | SIP server address (ipv6) is 'fe80::711f:f300:e709:969e'
2020-06-18 16:37:05 | SIP server UDP port is 5060
2020-06-18 16:37:05 | SIP server TCP port is 5060
2020-06-18 16:37:05 | Server (V37 build 20200607,win) is ready.
2020-06-18 16:37:05 | HTTP server is running at port 8080, default password is 'FEED7F2A8DB54BB6'.
```

Click add on the **Local User** interface, enter **username (account number of SIP device) and password (need define on SIP device)**, select IP address authorization, and enter IP address of device and port 5060 to add the device to the SIP server (authorization is optional).
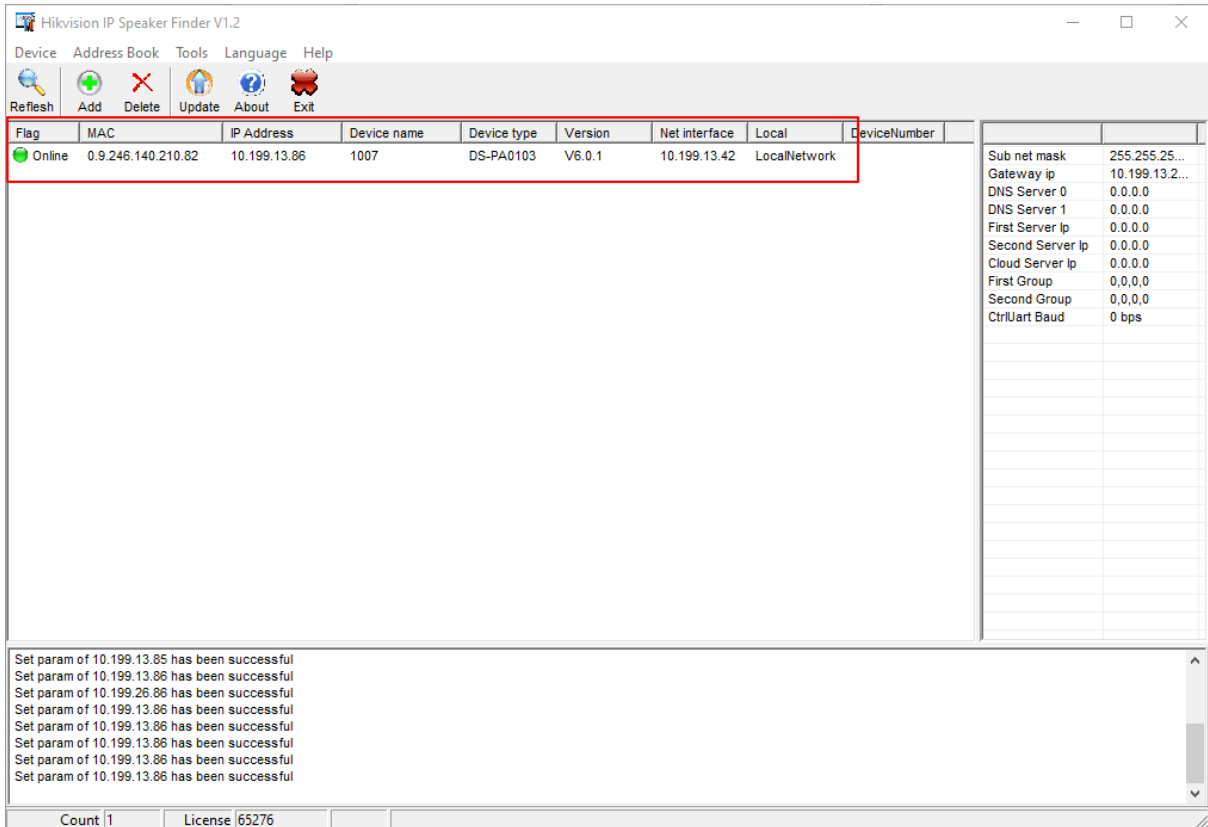

If devices are added to SIP server successfully, the icon near User name will turn blue, and users can dial the corresponding number of SIP devices to do SIP call.
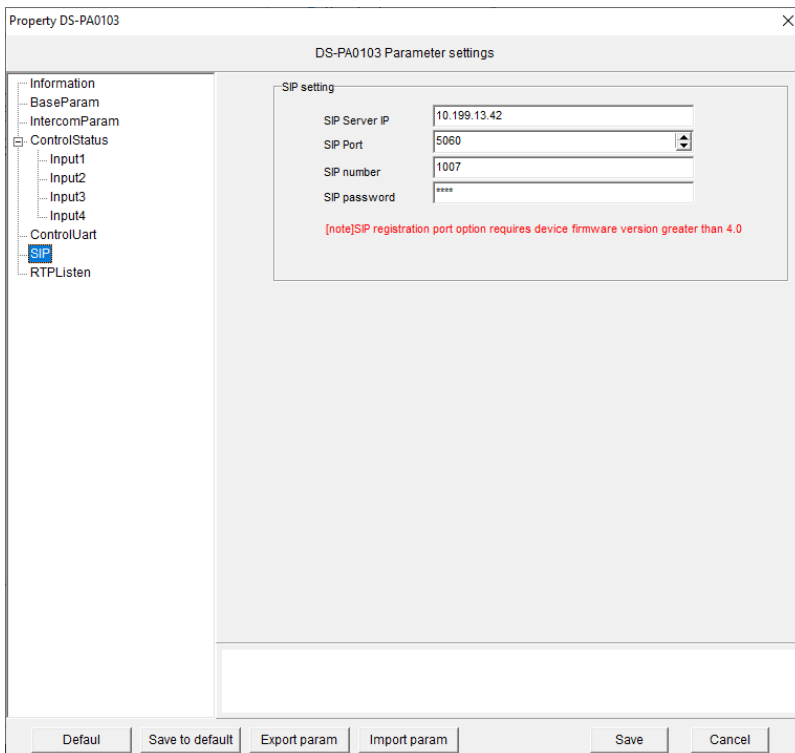

2. Configuration on IP Speaker
1) OEM model configuration

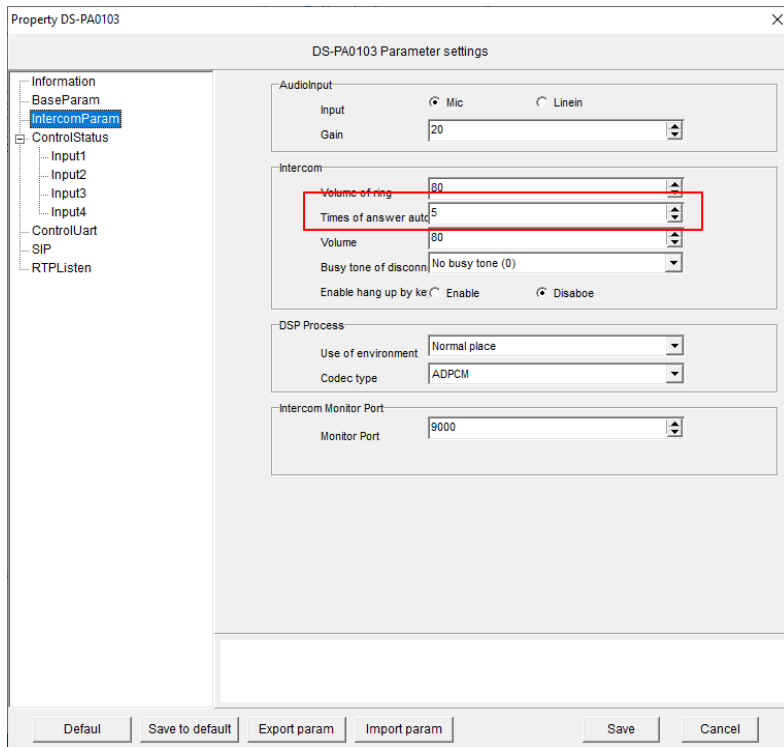On the Hikvision IP Speaker Finder page, click the name of speaker to go to the configuration page.

Select the SIP TAB, enter the SIP server address to bind the speaker to the server, set **SIP port** as 5060, **SIP number** as the call number of the speaker, and **SIP password** to be the same as the password set on the server.
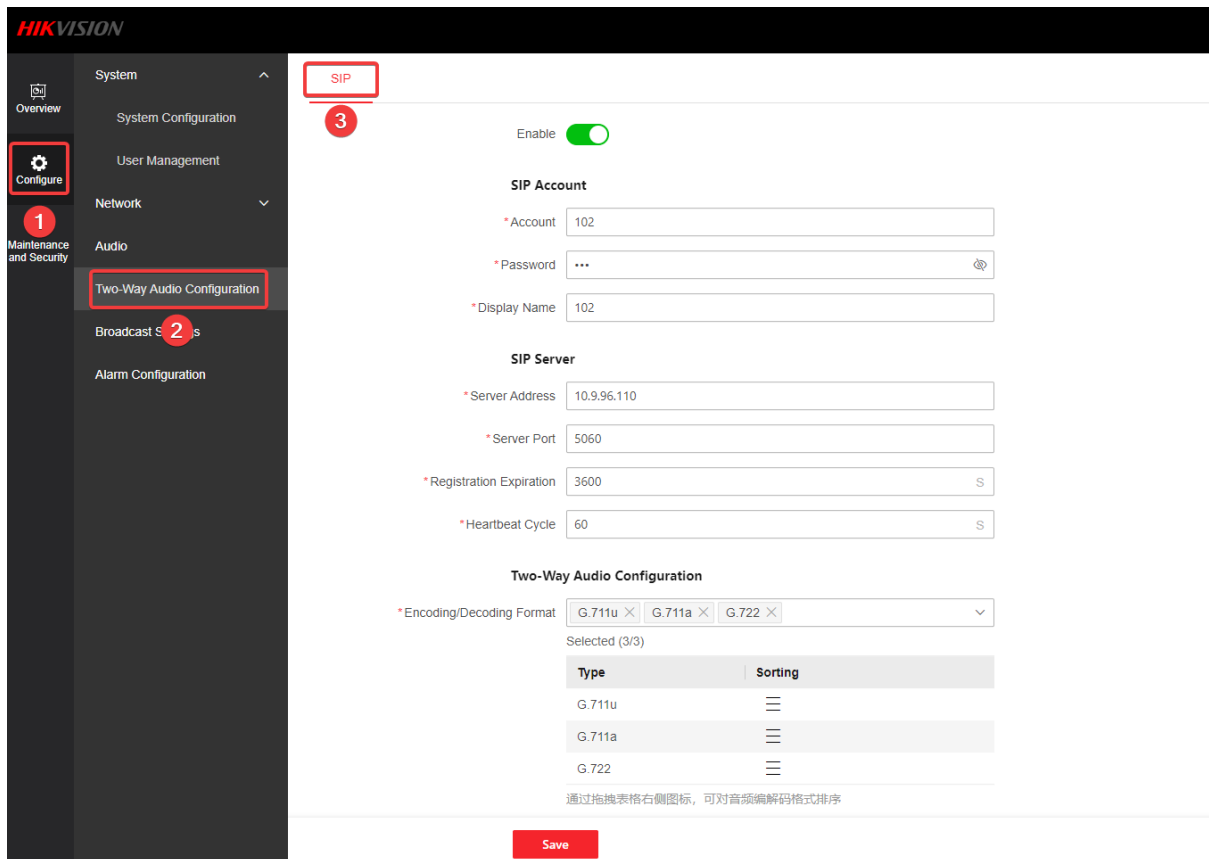

On the **IntercomParam** page, set the Time of answer to: 5(seconds)

When another device makes a call to the IP speaker, it will automatically pick up the call after 5 seconds.

2) Hikvision Model Configuration

Log in to the web side of the device, and access the SIP configuration page as shown in the following figure.
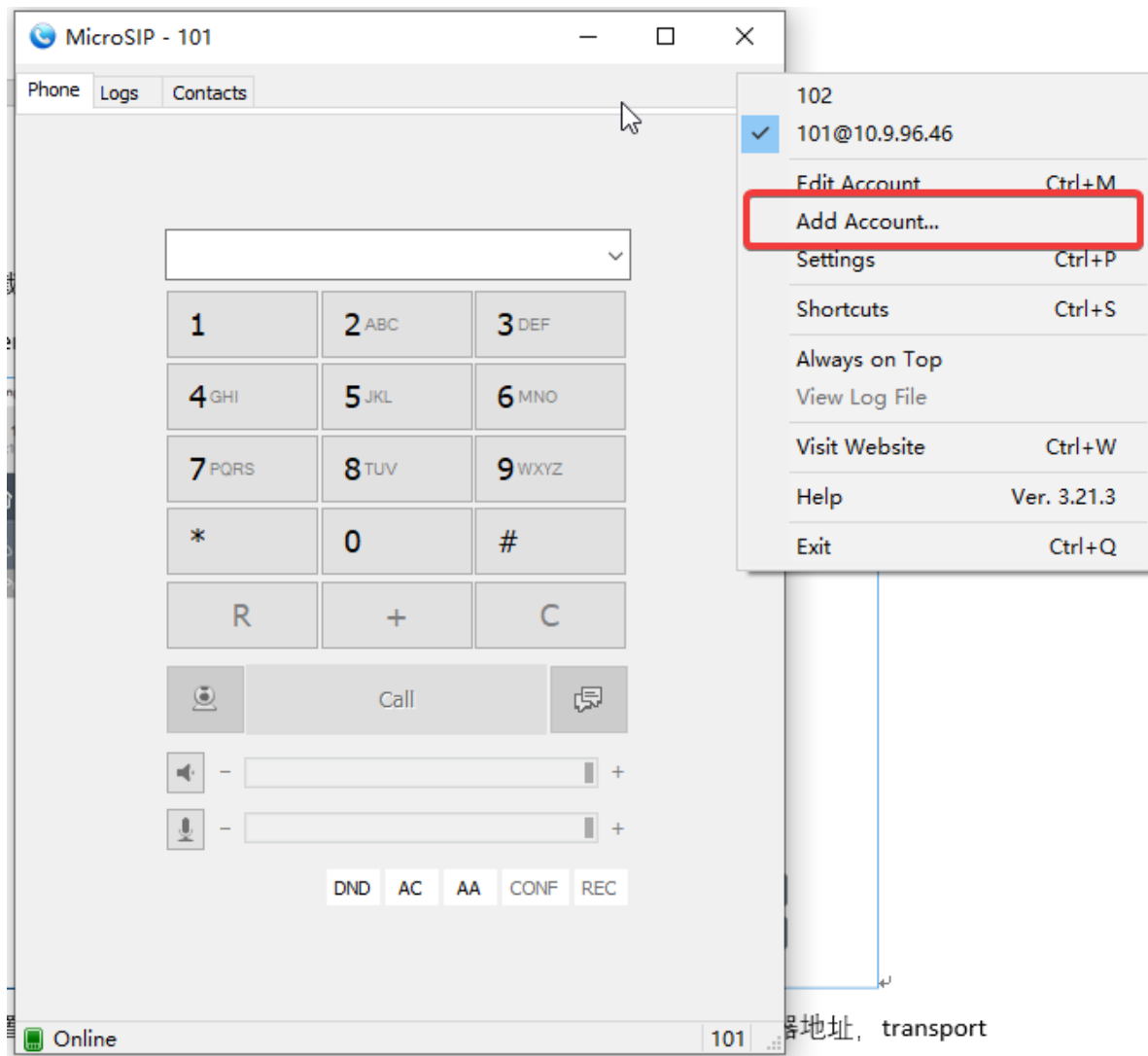
The call number entered in **Account** is the same as the user name set on the SIP server. In the **Password** field, enter the password set by the server side. **Display Name** can be customized. Set **Server Address** to the IP address of the SIP Server and **Server Port** to 5060. Keep the **Registration Expiration** and **Heartbeat Cycle** as default values unless required. **Encoding/Decoding Format** can rank priorities according to demand of environment in real.
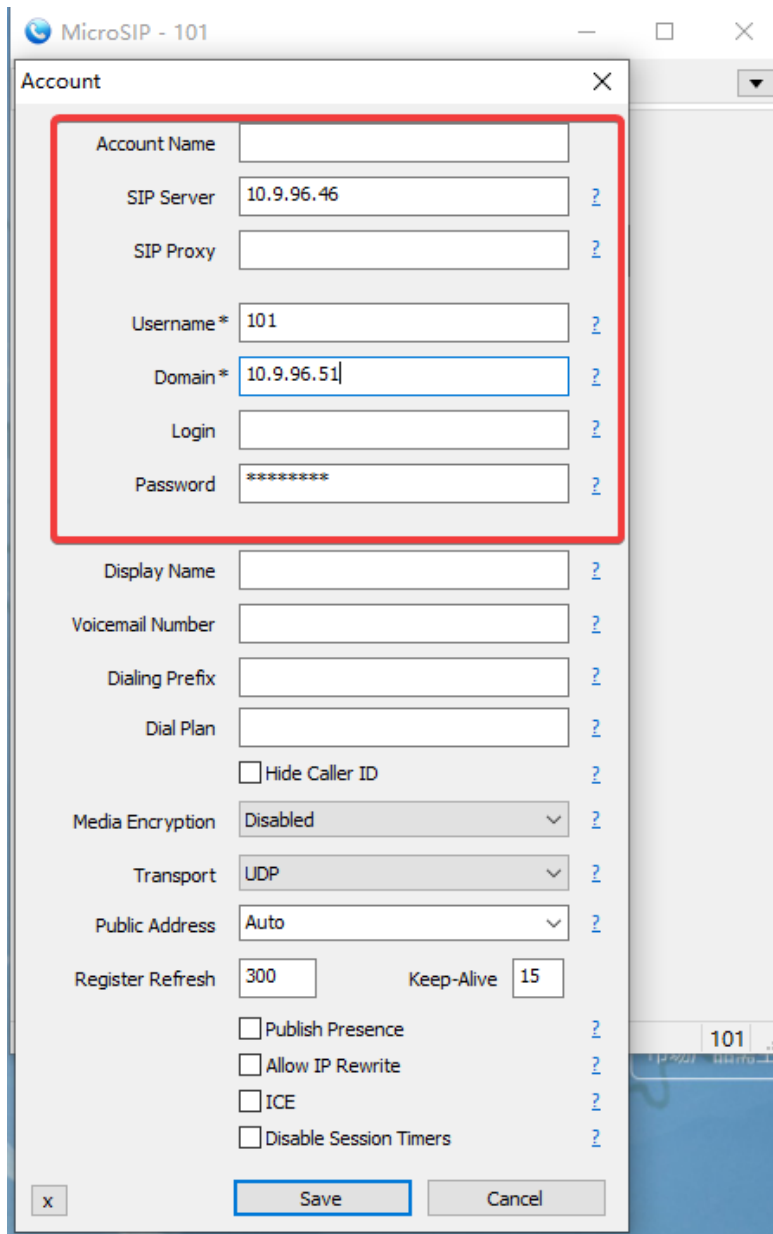
3. Soft Phone Configuration

This demonstration will choose MicroSIP as soft phone, the download address is:

https://www.microsip.org/

Open MicroSip, open setting interface and click **Add Account.**
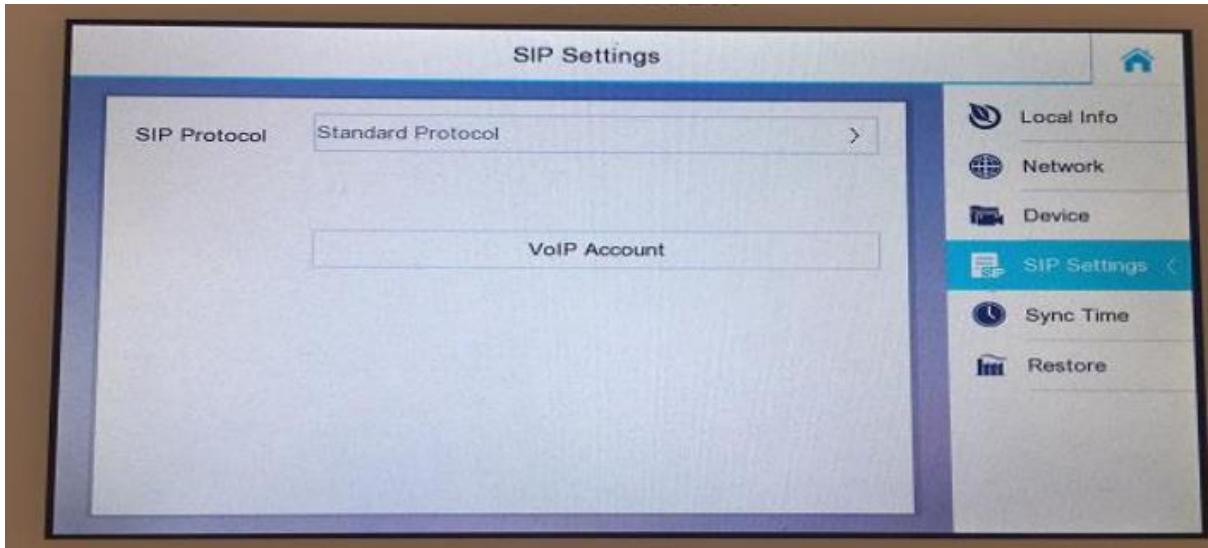
Enter **SIP Server's address**, fill call number in **Username**, IP address of MicroSIP in **Domain** and set a password for sip account, then click **Save** to save configuration.
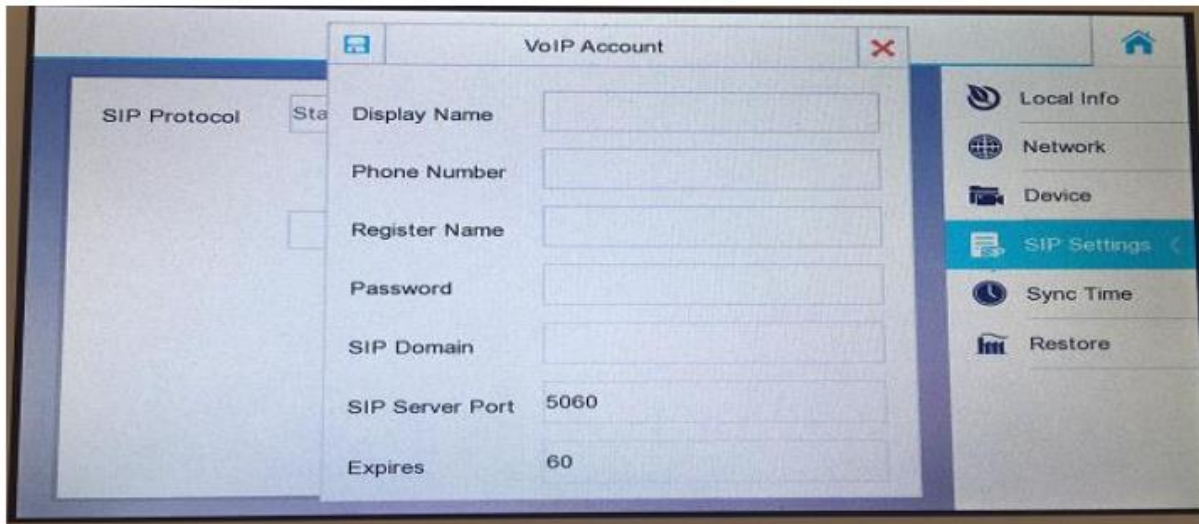
After finishing settings on SIP Server (refer to **Configuration on Sip Server**

), input account number of IP speaker on MicroSIP and then users can talk to IP Speaker.

4. Indoor Station Configuration

For this demonstration, DS-KH8350 indoor station is chosen as the SIP intercom device.

On local interface of DS-KH8350, enter SIP settings interface and choose **SIP Protocol** as standard protocol, configuration will be finished after device rebooting.

After rebooting, enter **VoIP Account** configuration interface, and input SIP server information.

After completing indoor station configuration and add device to SIP sever, enter call number of IP Speaker on interface of indoor station, then indoor station can phone IP Speaker and talk.