

Instructions to Install Cyberdata VoIP V2 Ceiling Speaker

The purpose of this guide is to provide instructions on how to install the **Cyberdata V2 Ceiling Speaker** as a paging extension on an IPitomy IP PBX. The instructions for the physical installation of the device are included with the unit from the manufacturer or can be found at the manufacturer's web site.



The **Cyberdata V2 Ceiling Speaker** requires either POE or that a POE injector be used.

Note that, unless otherwise instructed by IPitomy technical support, any fields not specified in this document should remain at their default values.

Step One: Make note of the 12-digit MAC address of the Cyberdata V2 Ceiling Speaker.

Step Two: Connect the LAN port of the Cyberdata V2 Ceiling Speaker to the network.

Step Three: Determine the IP Address of the Cyberdata V2 Ceiling Speaker.

1. Log into the IPitomy IP PBX.
2. Navigate to DESTINATIONS / EXTENSIONS.
3. Select the AUTO DISCOVERY tab.
 - a. Click on *Auto Discovery – Don't scan the network*
 - b. Once the device list is displayed, select the VIEW SETTINGS tab.
 - c. Click on *Advanced Filter Settings*.
 - d. Under *Show These Types Only*, select 'None.'
 - e. Click on REFRESH.
4. Search the resulting list of devices for the Cyberdata V2 Ceiling Speaker MAC address and note the IP address of the Cyberdata V2 Ceiling Speaker.

Step Four: Configure the extension on the IPitomy IP PBX.

While still logged into the IPitomy IP PBX,

1. Navigate to DESTINATIONS / EXTENSIONS.
2. Create the extension to be associated with the Cyberdata V2 Ceiling Speaker.
3. Navigate to the ADVANCED page.
4. Make note of the SIP PASSWORD for the extension.

Step Five: Configure the Cyberdata V2 Ceiling Speaker.

1. In your web browser, enter the IP address for the Cyberdata V2 Ceiling Speaker.
2. When asked for login credentials, enter

USERNAME: admin
PASSWORD: admin

Configure the Extension

1. Navigate to SIP CONFIG.

The screenshot shows the 'CyberData Ceiling Speaker' web interface. On the left is a navigation menu with buttons for Home, Device Config, Networking, SIP Config (highlighted with a red box), Multicast Config, Audio Config, Clock Config, Event Config, Autoprovisioning, and Update Firmware. The main content area is titled 'SIP Configuration' and includes the following settings:

- Enable SIP operation:
- SIP Settings:
 - SIP Server: 192.168.2.18
 - Remote SIP Port: 5060
 - Local SIP Port: 5060
 - Outbound Proxy: (blank)
 - Outbound Proxy Port: 0
 - SIP User ID: 7879
 - Authenticate ID: 7879
 - Authenticate Password: 4C2zQi
- Register with a SIP Server:
- Re-registration Interval (in seconds): 120
- Unregister on Reboot:
- RTP Settings:
 - RTP Port (even): 10500
- Dial Out Settings:
 - Dial out Extension: 204
 - Extension ID: (blank)

* You need to reboot for changes to take effect

Buttons: Save, Reboot

2. Locate the field SIP SERVER and input the IP address of the IPitomy IP PBX.
3. In the fields REMOTE SIP PORT and LOCAL SIP PORT input 5060.
4. Skip (leave blank) the fields OUTBOUND PROXY PORT and OUTBOUND PROXY.
5. In the fields SIP USER ID and AUTHENTICATE ID input the extension number created previously in the IPitomy IP PBX.
6. In the field AUTHENTICATE PASSWORD input the SIP password for the Extension.

- The remainder of the fields on this page can be left at their defaults.
- Click on REBOOT.

Verification/Testing

Before mounting the Cyberdata V2 Ceiling Speaker communication with the IPitomy IP PBX should be verified and the unit tested.

Once rebooted the unit should automatically log in to the IPitomy IP PBX. To verify this:

- On the IPitomy IP PBX system administration interface navigate to the Reporting/Monitoring page. The extension of the Cyberdata V2 Ceiling Speaker should appear on the list of monitored extensions/devices.

To perform a test page, dial ** + the extension number of the paging unit.

Mounting instructions are provided with the unit or may be found at the manufacturer's web site: [Cyberdata Support Page](#)

Adjusting Volume

To adjust the volume, navigate to DEVICE CONFIG. Volume may also be adjusted on the device itself, however once mounted this method may prove more practical.

The screenshot displays the 'CyberData Ceiling Speaker' web interface. On the left, a vertical menu contains buttons for 'Home', 'Device Config' (highlighted with a red box), 'Networking', 'SIP Config', 'Multicast Config', 'Audio Config', 'Clock Config', 'Event Config', 'Autoprovisioning', and 'Update Firmware'. The main content area is titled 'Device Configuration' and is divided into three sections:

- Volume Settings:** Includes 'Use Digital Volume Control' (checked), 'Speaker Volume' (set to 2), and 'Microphone Gain' (set to -4).
- Relay Settings:** Includes 'Activate Relay with DTMF code' (checked), 'DTMF Activation Code' (set to 321), 'DTMF Activation Duration (in seconds)' (set to 2), 'Activate Relay During Ring' (unchecked), 'Activate Relay on Button Press' (unchecked), and 'Relay on Button Press Timeout (in seconds)' (set to 3).
- Miscellaneous Settings:** Includes 'Beep on Initialization' (checked), 'Auto-Answer Incoming Calls' (checked), 'Button Lit when Idle' (checked), and 'Play Ringback Tone' (unchecked).

At the bottom, a note states: '* You need to reboot for changes to take effect'. Below this note are five buttons: 'Save', 'Test Audio', 'Test Microphone', 'Test Relay', and 'Reboot'.