

Fanvil A212

Fanvil A212 IP Wall-Mounted Speaker User Manual

Model: A212

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Fanvil A212 IP Wall-Mounted Speaker. The Fanvil A212 is a commercial-grade IP audio terminal designed for seamless integration into various security, communication, and broadcasting systems. It supports advanced audio features and connectivity options for diverse commercial environments.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the device.

- Ensure the power supply meets the device's requirements.
- Do not expose the device to water or moisture.
- Avoid placing the device near heat sources or in direct sunlight.
- Only qualified personnel should perform installation and maintenance.
- Use only manufacturer-approved accessories.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Fanvil A212 IP Wall-Mounted Speaker
- Mounting Bracket (if included)
- Screws and Wall Plugs (if included)
- Quick Installation Guide (this document serves as the full manual)

4. PRODUCT OVERVIEW

The Fanvil A212 is an IP-based speaker designed for clear audio broadcasting and intercom functions. It features a robust design suitable for wall mounting in various commercial settings.



Figure 1: Front view of the Fanvil A212 IP Wall-Mounted Speaker. This image shows the speaker's black casing and the perforated metal grille covering the speaker drivers. The Fanvil logo is visible at the bottom center of the grille.

4.1 Key Features

- **Seamless Integration:** Connects with IP cameras, alarms, locks, and security systems via HTTP API and IO interfaces.
- **High-Definition Audio:** Supports G.722 and Opus codecs for clear sound and lossless MP3/WAV broadcasting.
- **Multicast & Priority Management:** Handles up to 20 multicast zones for efficient communication control.
- **Enhanced Amplification:** Connects to a 15W passive speaker for superior audio coverage.
- **Versatile Application:** Ideal for security, communication, and broadcasting in commercial environments.

5. SETUP

5.1 Physical Installation (Wall Mounting)

1. **Select Location:** Choose a suitable wall location, ensuring it is structurally sound and free from obstructions. Consider optimal audio coverage.
2. **Mark Drilling Points:** Use the mounting bracket as a template to mark the drilling points on the wall.
3. **Drill Holes:** Drill holes at the marked points. Insert wall plugs if necessary for your wall type.
4. **Attach Bracket:** Secure the mounting bracket to the wall using the provided screws.
5. **Mount Speaker:** Carefully attach the Fanvil A212 speaker to the mounted bracket. Ensure it is securely fastened.

5.2 Network Connection

Connect an Ethernet cable from your network switch or router to the LAN port on the Fanvil A212. The device supports Power over Ethernet (PoE), simplifying installation by providing both power and data through a single cable. If PoE is not available, use a compatible power adapter (sold separately).

5.3 Initial Configuration

The Fanvil A212 can be configured via its web-based management interface.

1. **Obtain IP Address:** The device will typically obtain an IP address via DHCP. You can find the IP address using a network scanner tool or by checking your DHCP server logs.
2. **Access Web Interface:** Open a web browser and enter the device's IP address in the address bar.
3. **Login:** Enter the default username and password (refer to the device's documentation for default credentials, typically "admin" / "admin" or similar).
4. **Configure SIP Account:** Navigate to the SIP settings to register the speaker with your SIP server. Enter the necessary account details (SIP server address, username, password).
5. **Configure Multicast Zones:** If using multicast broadcasting, configure the multicast IP addresses and ports within the device's settings.
6. **Audio Settings:** Adjust volume levels and audio codecs as required for your environment.

6. OPERATING INSTRUCTIONS

6.1 Basic Broadcasting

Once configured, the Fanvil A212 can receive audio broadcasts from a SIP phone, IP PBX, or broadcasting system.

- **SIP Broadcasting:** Dial the SIP extension registered to the A212 from a SIP phone to initiate a one-way audio broadcast.
- **Multicast Broadcasting:** Send audio streams to the configured multicast IP addresses and ports. The A212 will automatically play these streams.

6.2 Intercom Functionality

The A212 supports intercom capabilities, allowing for two-way communication if equipped with a microphone (external microphone connection may be required or specific models). Refer to your system's configuration for initiating intercom calls.

6.3 Advanced Integration (HTTP API & IO Interfaces)

The A212 offers HTTP API and short-circuit IO interfaces for integration with external systems such as IP cameras, alarm lines, and electric locks.

- **HTTP API:** Allows external systems to send commands to the A212 for remote control, such as triggering broadcasts or adjusting settings. Consult the Fanvil A212 API documentation for detailed commands.

- **IO Interfaces:** Provides physical input/output connections for triggering actions based on external events (e.g., an alarm sensor triggering a broadcast) or controlling external devices (e.g., an electric lock).

7. MAINTENANCE

7.1 Cleaning

To clean the device, use a soft, dry cloth. Do not use liquid or aerosol cleaners, as they may damage the device.

7.2 Firmware Updates

Periodically check the Fanvil official website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements.




1. Download the latest firmware file from the Fanvil website.
2. Access the device's web management interface.
3. Navigate to the "Upgrade" or "Firmware" section.
4. Upload the downloaded firmware file and follow the on-screen instructions.
5. Do not power off the device during the firmware upgrade process.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	No PoE connection; Power adapter not connected or faulty.	Ensure Ethernet cable is connected to a PoE-enabled port or connect a functional power adapter.
No Audio Output	Volume too low; Incorrect audio settings; Network issue; Speaker fault.	Check volume settings in the web interface. Verify audio codec compatibility. Ensure network connectivity. Test with another audio source.
Cannot Access Web Interface	Incorrect IP address; Network connectivity issue; Firewall blocking access.	Verify the device's IP address. Check network cable connection. Temporarily disable firewall for testing.
SIP Registration Failure	Incorrect SIP account details; SIP server unreachable; Network issues.	Double-check SIP server address, username, and password. Ping the SIP server from a connected device. Ensure necessary ports are open.

9. SPECIFICATIONS

Feature	Detail
Brand	Fanvil
Model Name	A212
Mounting Type	Wall Mount
Speaker Type	Multicast
Product Dimensions	8"D x 5"W x 11"H
Item Weight	5 pounds

	<p>Fanvil i10 Series Mini SIP Intercom Quick Installation Guide</p> <p>This guide provides instructions for the quick installation of Fanvil's i10, i10V, and i10D Mini SIP Intercoms. It covers package contents, physical specifications, interface descriptions, installation diagrams, and configuration steps.</p>
	<p>Fanvil i60 & i60K SIP Video Door Phone User Manual</p> <p>Comprehensive user manual for the Fanvil i60 and i60K SIP audio and video intercoms. Learn about installation, configuration, features, and troubleshooting for these advanced video door phones.</p>
	<p>Fanvil i30 IP Door Phone Quick Installation Guide</p> <p>This guide provides comprehensive instructions for the installation and basic configuration of the Fanvil i30 IP Door Phone. It covers package contents, physical specifications, detailed installation steps, network searching methods, SIP account setup, and various door unlocking configurations including local password, private access code, remote password, and RFID cards.</p>