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## Fanvil PA2S

# Fanvil SIP Paging Gateway PA2S User Manual

Brand: Fanvil | Model: PA2S

## 1. INTRODUCTION

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The Fanvil PA2S is a versatile SIP paging gateway designed for media streaming using standard IP/RTP/RTSP protocols. It integrates various functionalities including broadcast, recording, intercom, and security features. This device facilitates audio and video intercom, broadcasting, and security triggers through external device connections, making it suitable for diverse integration solutions.

### 1.1. Package Contents

- Fanvil PA2S Paging Gateway
- Terminal block connector

## 2. PRODUCT OVERVIEW

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The Fanvil PA2S offers a compact design with multiple interfaces for comprehensive communication and security applications.

### 2.1. Key Features

- SIP Unified Communication for full connectivity
- HD Audio for clear and far-reaching broadcasts
- Online Broadcasting or MP3 Broadcasting capabilities
- Support for HD Video Linkage
- Cloud Platform for simplified remote management
- Audio line out port for expandable external active speakers
- Recording output via 3.5mm standard audio interface
- NVR video recording with standard RJ45 interface
- Emergency call button interface for active calls

### 2.2. Device Layout



**Figure 1:** Front view of the Fanvil PA2S SIP Paging Gateway. This image displays the compact black casing of the device, highlighting its overall form factor.



**Figure 2:** Rear view of the Fanvil PA2S SIP Paging Gateway, showing the various connection ports. From left to right, these include the CAMERA and WAN Ethernet ports, SIP/NET status indicator, VOLUME control, RST (Reset) button, RECORD port, and a ground screw.



**Figure 3:** Side view of the Fanvil PA2S SIP Paging Gateway, detailing the terminal block connectors. These include SPK LINE OUT, LED, KEY, MIC, LOGIC IN/OUT, and POWER input (12V-24V 2A).

### 3. SETUP

Follow these steps to properly set up your Fanvil PA2S SIP Paging Gateway.

### 3.1. Power Connection

1. Connect the provided power adapter to the **POWER** input terminal block on the side of the PA2S. Ensure correct polarity (+ and -).
2. Plug the power adapter into a suitable electrical outlet. The device will power on automatically.

### 3.2. Network Connection

1. Connect an Ethernet cable from your network switch or router to the **WAN** port on the rear of the PA2S.
2. The SIP/NET LED indicator will illuminate once a network connection is established and the device obtains an IP address.

### 3.3. Peripheral Connections

- **Speakers:** Connect external active speakers to the **SPK LINE OUT** terminal block.
- **Microphone:** Connect a microphone to the **MIC** terminal block.
- **Emergency Button/Key:** Connect an emergency call button or other key input to the **KEY** terminal block.
- **LED Indicator:** Connect an external LED indicator to the **LED** terminal block for status indication.
- **Logic In/Out:** Utilize the **LOGIC IN** and **LOGIC OUT** terminal blocks for integration with other security or control systems.
- **Camera:** If using video linkage, connect an IP camera to the **CAMERA** Ethernet port.
- **Recording Device:** For external recording, connect a recording device to the **RECORD** 3.5mm audio jack.

## 4. OPERATING INSTRUCTIONS

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This section outlines the basic operation of the Fanvil PA2S.

### 4.1. Web Interface Access

1. Obtain the IP address of the PA2S (e.g., via a network scanner or by checking your router's DHCP client list).
2. Open a web browser and enter the IP address of the PA2S into the address bar.
3. Log in using the default credentials (refer to the device's documentation for default username and password).
4. From the web interface, you can configure SIP accounts, network settings, audio parameters, and other advanced features.

### 4.2. SIP Configuration

The PA2S functions as a SIP endpoint. It is compatible with various SIP platforms such as Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, and Avaya. Refer to your SIP server documentation and the PA2S web interface for detailed configuration steps to register the device as an extension.

### 4.3. Paging and Broadcasting

- Once registered to a SIP server, the PA2S can receive paging calls from other SIP devices.

- Audio received via SIP will be output through the connected speakers.
- The device supports online broadcasting and playback of MP3 files (if configured via the web interface).

## 4.4. Volume Control

Adjust the output volume using the **VOLUME** knob located on the rear of the device or through the web interface settings.

## 4.5. Emergency Call

If an emergency call button is connected to the **KEY** terminal, pressing it can trigger a pre-configured emergency call to a designated SIP extension or number.

# 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your PA2S.

## 5.1. Cleaning

- Use a soft, dry cloth to clean the exterior of the device.
- Do not use liquid cleaners or aerosol sprays directly on the device.

## 5.2. Firmware Updates

Periodically check the Fanvil official website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware package for the update process via the web interface.

# 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with the Fanvil PA2S.

## 6.1. No Power

- Ensure the power adapter is securely connected to both the PA2S and a working electrical outlet.
- Verify the power adapter's specifications match the device requirements (12V-24V 2A).

## 6.2. No Network Connection

- Check that the Ethernet cable is securely connected to the **WAN** port and your network device.
- Verify that your network switch or router is functioning correctly.
- Confirm that the SIP/NET LED indicator is illuminated. If not, check network settings via the web interface after a direct PC connection.

## 6.3. No Audio Output

- Ensure external speakers are properly connected to the **SPK LINE OUT** terminal and are powered on.
- Adjust the **VOLUME** knob on the rear of the device.
- Check audio settings in the PA2S web interface.
- Verify that the SIP call is successfully established and audio is being sent to the PA2S.

## 6.4. SIP Registration Failure

- Verify SIP account credentials (username, password, server address) in the web interface.
- Ensure network connectivity to the SIP server.
- Check firewall settings on your network that might be blocking SIP traffic.

## 6.5. Device Unresponsive

If the device becomes unresponsive, press and hold the **RST** (Reset) button on the rear panel for approximately 5-10 seconds to perform a factory reset. **Warning:** A factory reset will erase all configurations and restore default settings.

## 7. SPECIFICATIONS

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Technical specifications for the Fanvil PA2S SIP Paging Gateway.

Feature	Specification
Product Dimensions (L x W x H)	5.91 x 5.91 x 3.15 inches (15 x 15 x 8 cm)
Item Weight	11.1 ounces (314.7 grams)
Power Source	Corded Electric (12V-24V 2A)
Color	Black
Compatible Devices	Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, Avaya
Telephone Type	Corded (VoIP Phone functionality)
Multiline Operation	Multi-Line Operation
Conference Call Capability	Basic
Answering System Type	Digital

## 8. WARRANTY INFORMATION

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Fanvil products are covered by a limited warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the official Fanvil website or contact your authorized reseller. Keep your purchase receipt as proof of purchase for warranty claims.

## 9. SUPPORT

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For technical assistance, product inquiries, or further support, please visit the official Fanvil support website or contact your local distributor. Online resources, FAQs, and firmware downloads are typically available on the manufacturer's website.

**Fanvil Official Website:** [www.fanvil.com](http://www.fanvil.com)

