

PNI HS650

PNI SafeHouse HS650 WiFi GSM 4G Wireless Alarm System

USER MANUAL

1. Product Overview

The PNI SafeHouse HS650 is a sophisticated WiFi GSM 4G wireless alarm system designed to enhance your home security. It features a responsive 4.3-inch IPS color touchscreen for intuitive control and monitoring. This system supports extensive coverage with up to 100 wireless zones and 4 wired zones, making it adaptable for various property sizes and security needs.

Equipped with both 4G GSM and 2.4GHz WiFi (IEEE802.11b/g/n) communication capabilities, the HS650 ensures reliable connectivity and remote management. It seamlessly integrates with the Tuya Smart app (available for Android and iOS), allowing you to receive real-time notifications, control system status, and configure settings directly from your smartphone or tablet. The system also supports SMS configuration, panic alarms, scheduled arming/disarming, and personalized voice call alerts to up to 5 registered phone numbers. A 20-second message recording feature and tamper alarm provide additional layers of security. The central unit is powered by a 5V/1A adapter and includes a 3.7V 1000mAh Li-Ion internal battery for backup.



Image 1.1: PNI SafeHouse HS650 Main Unit with Touchscreen and Labeled Components. This image highlights the speaker, GSM signal indicator, WiFi signal indicator, built-in battery level, SOS button, RFID tag reader, touchscreen, screen saver, and microphone.

2. Package Contents

Please verify that all the following components are included in your package:

- 1 x PNI SafeHouse HS650 Central Unit
- 1 x Wireless Motion Detector
- 1 x Wireless Magnetic Contact (for doors/windows)
- 2 x Remote Controls
- 1 x Wired Indoor Siren
- 1 x Power Adapter (230V - 5V)
- 2 x RFID Tags (125 kHz)

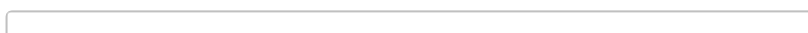


Image 2.1: Complete PNI SafeHouse HS650 Alarm System Kit. This image displays the central unit, motion detector, magnetic contact, remote controls, RFID tags, siren, and power adapter.

3. Key Features

- **Mobile Notifications:** Receive alerts and notifications directly on your mobile phone via the Tuya Smart app (Android and iOS) for system activation, deactivation, triggered alarms, or configuration changes.
- **Smart Scenarios:** Create intelligent automation scenarios by connecting the alarm system to other Tuya-compatible accessories through the Tuya Smart app.
- **Extensive Zone Support:** Supports up to 100 wireless zones and 4 wired zones for comprehensive security coverage.
- **4G SIM Communication:** Insert a 4G SIM card to enable SMS and voice call alerts to up to 5 registered phone numbers. Customize alert preferences for each number.
- **Remote SMS Configuration:** Configure the alarm system remotely via SMS using the integrated 4G GSM module. Commands allow for adding/configuring phone numbers, setting passwords, and controlling system status.
- **4.3-inch Touchscreen:** Intuitive IPS color touchscreen display for system status, alarm details (including triggered zone), GSM/WiFi signal levels, and access to settings.
- **Voice Instructions:** Provides clear voice prompts for system operations.
- **Internal Battery Backup:** Equipped with a 3.7V 1000mAh Li-Ion internal battery for continuous operation during power outages.
- **RFID Reader:** Built-in RFID reader for convenient arming/disarming using RFID tags.

4. Initial Setup

4.1. SIM Card Installation

To enable GSM 4G communication for SMS and voice call alerts, a 4G SIM card must be installed in the central unit.

1. Ensure the central unit is powered off.
2. Locate the SIM card slot on the back panel of the central unit.
3. Carefully insert a standard 4G SIM card into the slot, ensuring correct orientation.
4. Secure the back panel if removed.



Image 4.1: Rear View of the Central Unit with SIM Card Slot. This image shows the internal circuit board and the designated slot for SIM card insertion.

4.2. Power Connection

Connect the central unit to a power source using the provided adapter.

1. Plug the 5V power adapter into the DC input port on the central unit.
2. Connect the power adapter to a standard 230V electrical outlet.
3. The system will power on automatically. The internal battery will begin charging.



Image 4.2: Power Adapter for the Central Unit. This image displays the 5V power adapter and its accompanying USB cable.

4.3. Tuya Smart App Installation

For remote control and notifications, download and install the Tuya Smart app on your smartphone or tablet.

1. Search for "Tuya Smart" in your device's app store (Google Play Store for Android or Apple App Store for iOS).

2. Download and install the application.
3. Follow the in-app instructions to create an account and add your PNI SafeHouse HS650 alarm system. Ensure your central unit is connected to your home WiFi network during this process.

5. Operating Instructions

5.1. Arming and Disarming the System

The system can be armed or disarmed using the touchscreen, remote controls, RFID tags, or the Tuya Smart app.

- **Touchscreen:** Tap the "Arm" or "Disarm" icons on the 4.3-inch display. You may be prompted to enter your password.
- **Remote Control:** Press the lock icon to arm the system or the unlock icon to disarm. The home icon typically activates partial arming (stay arm). The SOS button triggers a panic alarm.
- **RFID Tag:** Swipe an authorized RFID tag over the RFID reader area on the central unit to arm or disarm the system.
- **Tuya Smart App:** Use the app interface to remotely arm, disarm, or set partial arming modes.



Image 5.1: Remote Controls for Arming and Disarming. Each remote control features buttons for arming, disarming, partial arming, and an SOS panic function.

5.2. Adding Wireless Sensors

The system supports up to 100 wireless zones. To add new wireless sensors:

1. Access the "Sensor Management" or "Zone Settings" menu on the central unit's touchscreen.
2. Select the option to add a new wireless sensor.
3. Trigger the new sensor (e.g., wave hand in front of motion detector, separate magnetic contact) to register it with the central unit.
4. Assign the sensor to a specific zone and configure its properties (e.g., zone type, name).



Image 5.2: Wireless Motion Detector. This image shows the included passive infrared (PIR) motion sensor.

5.3. SMS and Voice Call Alerts

Configure phone numbers to receive alerts via SMS or voice calls when an alarm is triggered.

1. Navigate to the "Phone Settings" or "Alarm Numbers" menu on the touchscreen.
2. Enter up to 5 phone numbers.
3. For each number, specify whether to send SMS alerts, make voice calls, or both. You can also record a personalized voice message (up to 20 seconds) for calls.
4. The system can also send SMS notifications for arming/disarming events or configuration changes.

5.4. Touchscreen Interface

The 4.3-inch touchscreen provides a visual interface for managing the alarm system.

- **Home Screen:** Displays current time, date, system status (armed/disarmed), and quick access icons for arming, disarming, partial arming, and menu.
- **Status Indicators:** Shows GSM signal strength, WiFi connection status, and internal battery level.
- **Settings Menu:** Access advanced settings for sensor management, user passwords, network configuration, scheduled tasks, and message recording.



Image 5.3: Touchscreen Interface Display. This image provides a detailed view of the main screen, showing status icons and navigation options.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your PNI SafeHouse HS650 alarm system.

- **Battery Check:** Periodically check the battery levels of wireless sensors and the central unit's internal backup battery. Replace sensor batteries (2 AAA for magnetic contact, CR2450 3V for RFID contact) as needed.
- **Cleaning:** Gently wipe the touchscreen and exterior surfaces of the central unit and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Firmware Updates:** Check the Tuya Smart app or PNI's official website for any available firmware updates to ensure your system has the latest features and security enhancements.
- **Signal Strength:** Ensure good GSM and WiFi signal strength for reliable communication. Relocate the central unit if signal is consistently weak.

7. Troubleshooting

If you encounter issues with your PNI SafeHouse HS650, refer to the following common problems and solutions:

- **System Not Responding:** Ensure the central unit is properly connected to power and the internal battery is charged. Try restarting the unit.
- **No GSM/WiFi Signal:** Check if the SIM card is correctly inserted and active. Verify your WiFi network is operational and the central unit is within range. Adjust antenna position if applicable.
- **Sensors Not Triggering:** Check sensor battery levels. Ensure sensors are properly paired with the central unit and within its wireless range. Verify sensor placement and alignment.
- **No Notifications:** Confirm phone numbers are correctly registered and alert preferences are set. Check app notification settings on your smartphone. Ensure the SIM card has credit for SMS/calls.
- **Touchscreen Unresponsive:** Perform a soft reset by powering off and on the central unit. If the issue persists, contact technical support.

8. Technical Specifications

Feature	Specification
Model Number	PNI-HS650
Wireless Zones	100
Wired Zones	4
Display	4.3-inch IPS Color Touchscreen
Communication	GSM 4G, WiFi 2.4GHz (IEEE802.11b/g/n)
GSM Frequency	850/900/1800/1900 MHz
Sensor Communication Frequency	433 MHz
Internal Battery	3.7V 1000mAh Li-Ion
Central Unit Power Supply	5V/1A (230V input)
Siren Volume (Max)	100 dB
Operating Temperature	-26 ~ +60 °C
Dimensions (L x W x H)	160 x 98 x 19 mm
Weight	663 grams
Compatible App	Tuya Smart
Magnetic Sensor Battery	2 x AAA, 1.5V
RFID Tag Battery	CR2450 3V

9. Technical Support

For further assistance or if you encounter issues not covered in this manual, please contact PNI technical support. Refer to the product packaging or PNI's official website for the most up-to-date contact information, including phone numbers, email addresses, or online support portals.

When contacting support, please have your product model number (HS650) and a detailed description of the issue ready. This will help the support team assist you more efficiently.