PGST QEK-A103S-C/T53W2

PGST Smart WiFi Security Alarm System - User Manual

Model: QEK-A103S-C/T53W2

Image: PGST brand banner, emphasizing smart living.

1. INTRODUCTION

The PGST Smart WiFi Security Alarm System provides comprehensive protection for your home or office. This system integrates WiFi and GSM connectivity, allowing for remote control and notifications via a smartphone application, SMS, or calls. It includes a 1080p 360° camera, motion sensors, door/window sensors, and supports voice control through Amazon Alexa and Google Assistant.

This manual will guide you through the installation, operation, and maintenance of your security system to ensure optimal performance and reliability.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Alarm Base Unit
- 4 x Door Sensors (with battery)

- 2 x Wireless PIR Detectors (with battery)
- 2 x Remote Controls (with battery)
- 2 x RFID Tags
- 1 x 360° Camera
- 1 x Wired Siren (120DB)
- 1 x User Manual
- 1 x Charger (USB Type-C)

Image: Overview of the PGST Smart Security System kit, showing the alarm panel, camera, sensors, and accessories.

3. SPECIFICATIONS

Feature	Specification

Feature	Specification
Input Voltage	DC 5V (USB Type-C)
Operating Current	<250mA
Alarm Current	<650mA
Wireless RF Frequency	433.92 MHz (ASK modulation)
Encoding Format	1527/2262 (receive), 1527 or 2262 (transmit)
GSM Support	2G
WiFi Standard	IEEE802.11b/g/n (2.4 GHz, 5G not supported)
Backup Battery	3.7V/1000mAh Lithium Polymer
Operating Temperature	-10°C to 55°C (14°F to 131°F)
Relative Humidity	<80% (non-condensing)
Product Dimensions	185 x 125 x 14.7 mm (Length x Height x Thickness)
Weight	600 g

Support Alexa Voice Control

Support Voice Control Alarm Host
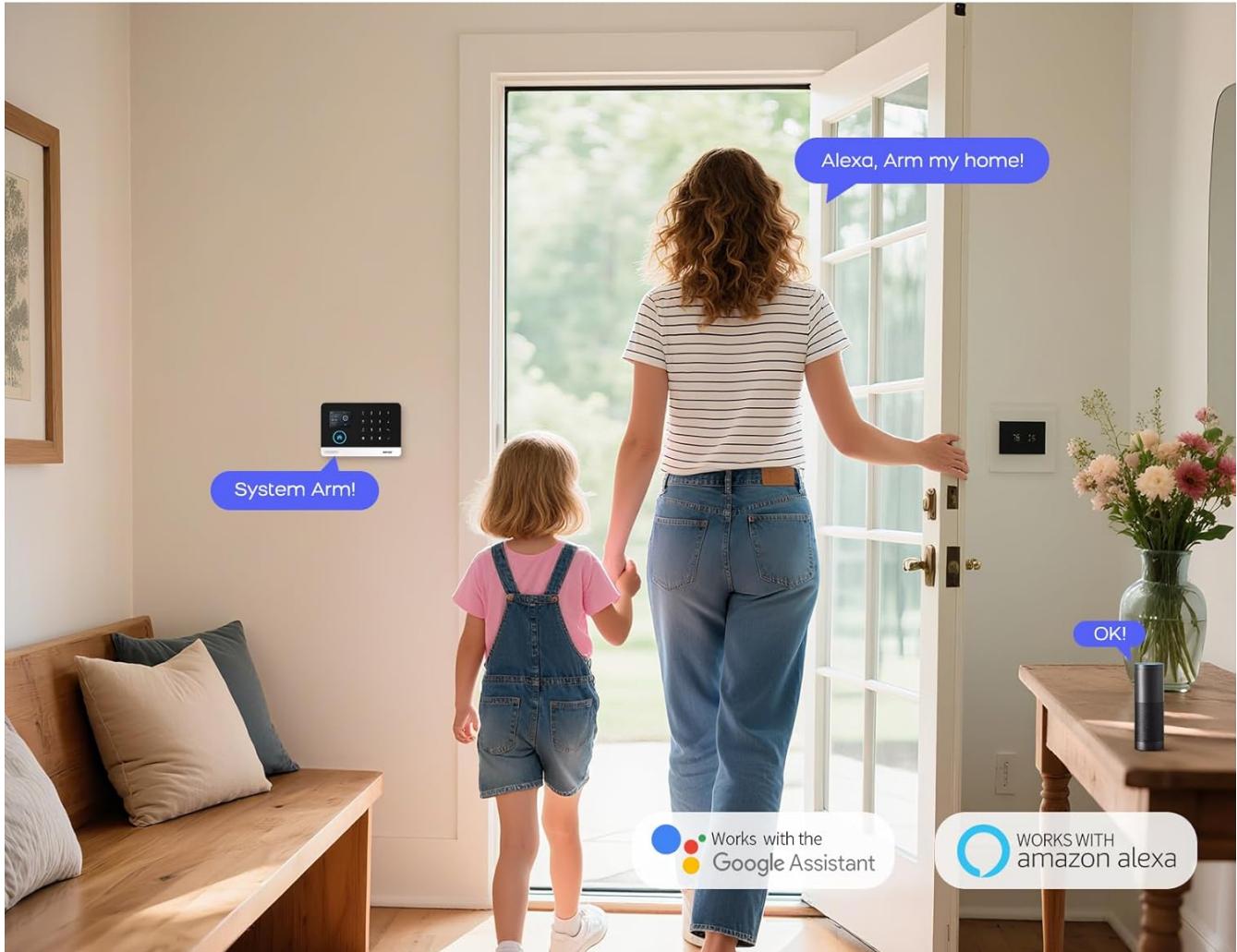
Image: Front and side view of the alarm panel, highlighting the 2.4 TFT display and physical dimensions.

4. SETUP

4.1 Initial Power-On

1. Connect the alarm base unit to a power source using the provided USB Type-C charger.
2. The unit will power on automatically. The TFT display will illuminate.

4.2 SIM Card Installation (Optional for GSM Functionality)

1. Locate the SIM card slot on the side of the alarm base unit.
2. Insert a 2G compatible SIM card into the slot, ensuring correct orientation.
3. The system will detect the SIM card and display network status on the screen.

4.3 App Installation and WiFi Connection

1. Download the companion application (e.g., Tuya Smart App) from your smartphone's app store (iOS or Android).
2. Register or log in to your account.
3. On the alarm base unit, navigate to the WiFi settings.
4. Follow the in-app instructions to add a new device. This typically involves selecting your 2.4 GHz WiFi network and entering the password.
5. The alarm unit will connect to your WiFi network. A confirmation message will appear on the display and in the app.

4.4 Adding Sensors and Camera

The system supports up to 99 wireless sensors and 3 wired zones.

1. **Door/Window Sensors:** Mount the two parts of the sensor on a door or window frame, ensuring they are aligned and within 1 cm of each other when closed. Pair them with the alarm unit via the app or panel settings.
2. **PIR Motion Detectors:** Install PIR detectors in areas where motion detection is desired, such as hallways or living rooms. Ensure they have a clear line of sight. Pair them with the alarm unit.
3. **360° Camera:** Connect the camera to power. Follow the camera's specific instructions to connect it to your WiFi network and link it to your security system app.

Easy DIY Installation and Multipurpose Application

The Host is Equipped with Multiple Accessories,
One-Click Arming and Disarming

Image: Diagram illustrating a home layout with various PGST security components installed, including the alarm host, door sensors, motion sensors, and an IP camera, demonstrating easy DIY installation.

5. OPERATING INSTRUCTIONS

5.1 Arming and Disarming the System

- **Via Alarm Panel:** Use the keypad to enter your security code and press the 'Arm' or 'Disarm' button.
- **Via Remote Control:** Press the 'Arm' button (often a closed padlock icon) to arm the system, or the 'Disarm' button (open padlock icon) to disarm.
- **Via Mobile App:** Open the app and tap the 'Arm' or 'Disarm' icon.
- **Scheduled Arming/Disarming:** Set custom schedules through the app for automatic arming and disarming at specific times.

Smart APP Remotely Control

Program 4 Sets of Timing Arming/Disarming According to your Need
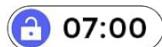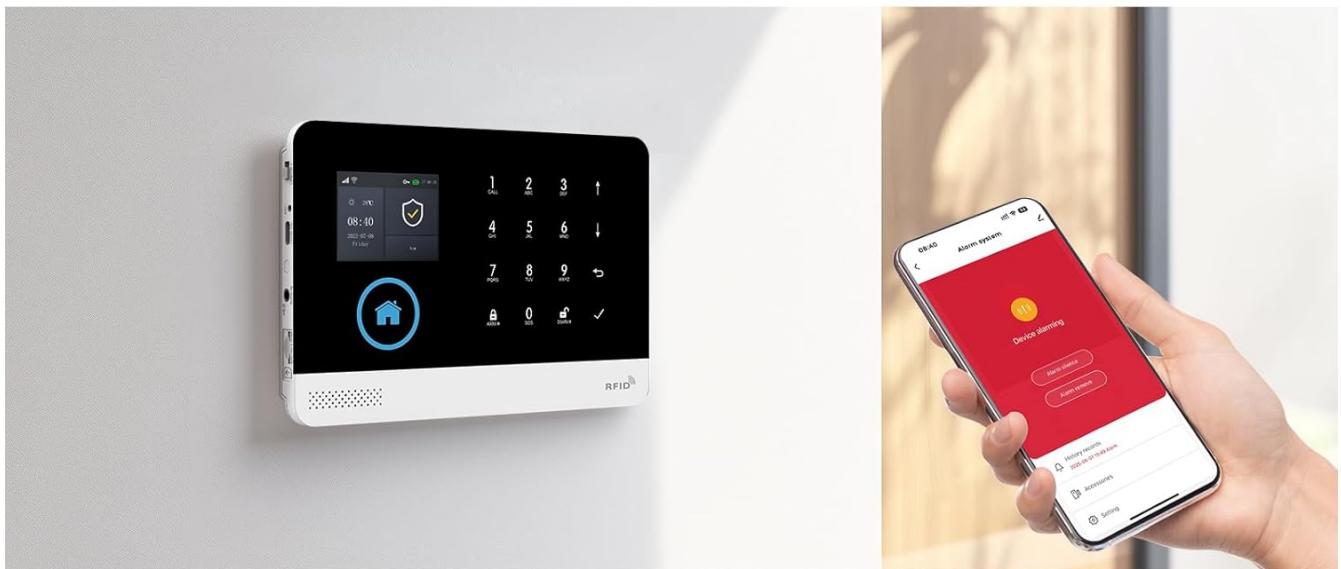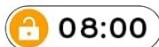
🔓 07:00	🔓 08:00	🔓 16:00	🔓 22:00
Get up	Go to Work	Go Home	Go to Bed
Disarm	Arm	Disarm	Arm

Image: Illustration of the mobile app interface for remote control, showing options for arming and disarming the system, along with examples of scheduled operations.

5.2 Two-Way Voice Intercom

The alarm base unit supports two-way voice communication. When an alarm is triggered or a call is initiated, you can speak and listen through the unit.

- **Making Calls:** Use the dialing buttons on the panel or the app to initiate a call.
- **Receiving Calls:** Answer incoming calls directly from the panel or through the app.

Image: Depiction of the two-way voice intercom feature, showing a child interacting with the alarm panel and an adult responding via a smartphone, illustrating remote communication.

5.3 Voice Control Integration

The system is compatible with Amazon Alexa and Google Assistant for convenient voice commands.

1. Enable the PGST skill/action in your Alexa or Google Home app.
2. Link your PGST account.

3. Use commands such as "Alexa, arm my home" or "Hey Google, disarm the security system."

Image: Scene showing a user interacting with the alarm system using voice commands through an Amazon Alexa device, demonstrating smart home integration.

5.4 Camera Operation

The 1080p 360° camera provides live video feed and recording capabilities.

- **Live View:** Access the camera's live feed through the mobile app at any time.
- **Motion Detection:** The camera can detect motion and send alerts to your phone.
- **Two-Way Audio:** Communicate through the camera using its built-in microphone and speaker.
- **Infrared Night Vision:** The camera automatically switches to night vision in low-light conditions.
- **Video Replay:** Review recorded footage through the app.

Wireless Sensor Batteries are Low

## Gate Magnetic, Infrared Low Voltage Host will Senda Message to the APP
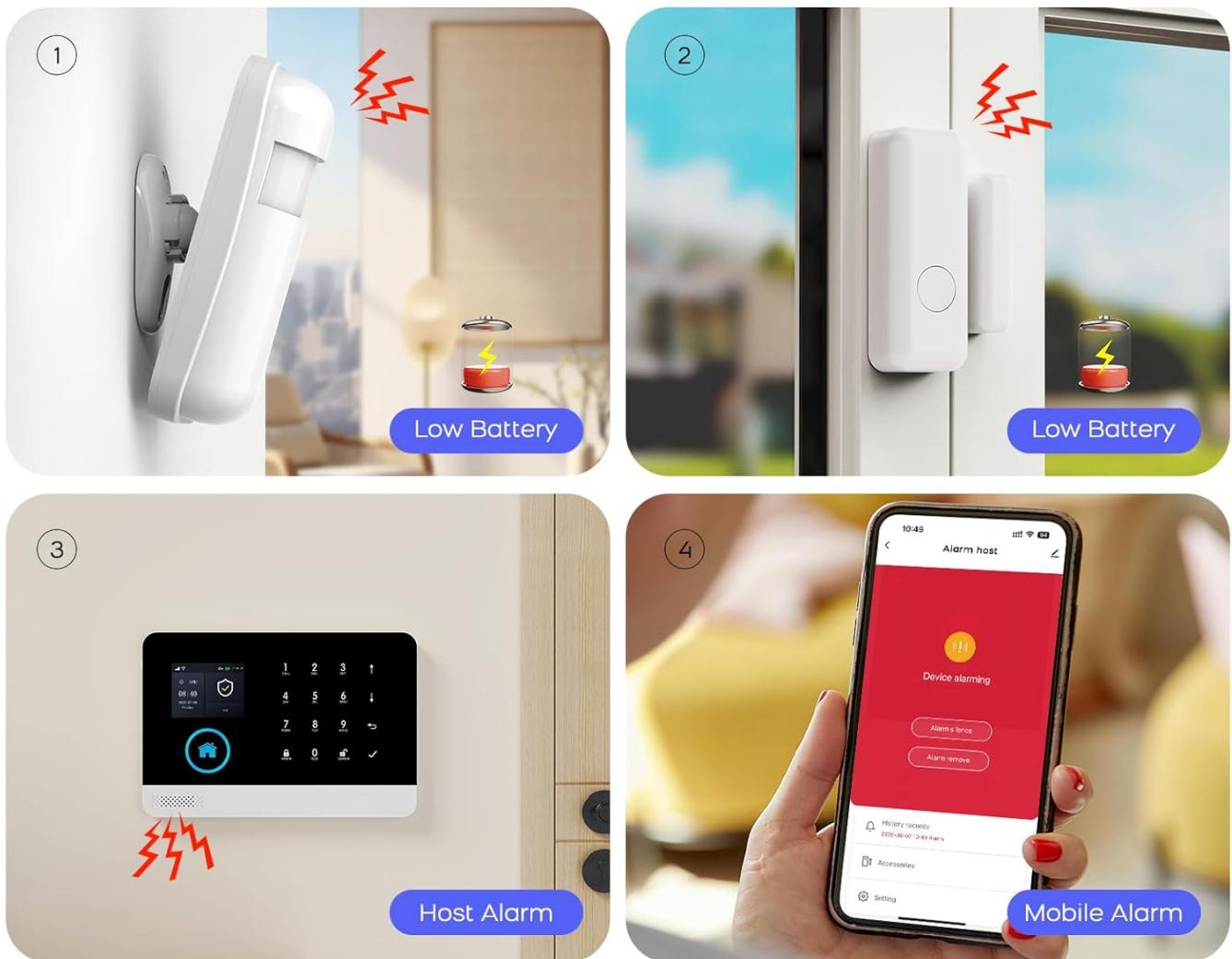
Image: A 360-degree home security WiFi camera on a table, with icons illustrating its features: 1080p resolution, motion detection, 2-way audio, video replay, infrared night vision, and app control.

6. MAINTENANCE

6.1 Battery Replacement for Sensors

The system will notify you via the app or panel display when sensor batteries are low.

1. Identify the sensor with a low battery warning.
2. Carefully open the sensor casing.
3. Replace the old battery with a new one of the same type (e.g., CR2032 for door sensors, AA for PIR detectors).
4. Close the casing securely. The system should automatically recognize the new battery.

Image: Visual representation of low battery warnings for wireless sensors (PIR and door sensor), and how these alerts are displayed on the alarm host and mobile app.

6.2 Cleaning

Wipe the alarm base unit, camera, and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the devices.

7. TROUBLESHOOTING

- **System not connecting to WiFi:** Ensure your WiFi network is 2.4 GHz. Check your WiFi password and router signal strength. Restart the alarm unit and your router.
- **Sensors not triggering alarm:** Verify that sensors are correctly paired and have fresh batteries. Check their placement to ensure proper detection range and alignment.
- **No GSM signal:** Ensure the 2G SIM card is correctly inserted and active. Check for network coverage in your area.
- **App notifications not received:** Check your phone's notification settings for the app. Ensure the app has background data access and is not restricted by power-saving modes.
- **Voice control not working:** Confirm that the PGST skill/action is enabled and linked in your smart assistant app (Alexa/Google Home). Ensure your voice commands are clear and match the supported phrases.

8. WARRANTY AND SUPPORT

PGST products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included in your product packaging or visit the official PGST website. If you encounter any issues or require technical assistance, please contact PGST customer support through the contact information provided on our website or within the mobile application.