**Jopix PNI-GS30**

# JOPIX GS30 CB Radio Station User Manual

Model: PNI-GS30

## 1. Introduction

Thank you for choosing the JOPIX GS30 CB Radio Station. This manual provides detailed instructions for the proper installation, operation, and maintenance of your device. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

## 2. Safety Information

- Always connect the radio to a stable 12-24V DC power source.
- Do not expose the unit to rain, moisture, or extreme temperatures.
- Ensure proper antenna connection before transmitting to prevent damage to the radio.
- Avoid disassembling the unit; refer servicing to qualified personnel.
- Keep the radio away from strong magnetic fields.

## 3. Package Contents

Verify that all items are present in the package:

- JOPIX GS30 CB Radio Station
- Microphone with RJ-45 connector
- Microphone holder
- Mounting bracket for the station
- Power cord
- Mounting screws and accessories




**Figure 3.1:** JOPIX GS30 CB Radio with included microphone and various mounting accessories, including the bracket, screws, and knobs.

## 4. Product Overview

The JOPIX GS30 features a generous multicolor display and compact design, making it suitable for various installations.




**Figure 4.1:** Front panel of the JOPIX GS30 CB Radio, showing the multicolor display, microphone input, and control buttons for SQ, A/F, EMG, RFG, SC, and F, along with the volume knob.

### 4.1. Front Panel Controls

- **MIC Jack:** RJ-45 connector for the microphone.
- **SQ (Squelch) Button:** Activates/deactivates and adjusts the squelch level.
- **A/F (AM/FM) Button:** Toggles between AM and FM modulation modes.
- **EMG (Emergency) Button:** Quickly switches to emergency channels (9/19).
- **RFG (RF Gain) Button:** Adjusts the receiver sensitivity.
- **SC (Scan) Button:** Initiates channel scanning.
- **F (Function) Button:** Accesses additional functions.

- **VOL (Volume) Knob:** Controls the audio output level.

## 4.2. Microphone




**Figure 4.2:** The microphone for the JOPIX GS30 CB Radio, featuring a coiled cord and an RJ-45 connector for secure attachment to the radio unit.

The included microphone connects via an RJ-45 jack and features a Push-To-Talk (PTT) button for transmission.

## 5. Setup

### 5.1. Mounting the Radio

Use the provided mounting bracket and screws to secure the radio in a convenient location within your vehicle or operating area. Ensure the location allows for proper ventilation and easy access to controls.



**Figure 5.1:** Various mounting components for the JOPIX GS30 CB Radio, including the U-shaped bracket, thumb screws, washers, and self-tapping screws.

### 5.2. Power Connection

Connect the power cord to the 12-24V DC power source. The JOPIX GS30 supports dual voltage input, eliminating the need for a converter. Ensure correct polarity (red to positive, black to negative) to prevent damage.

### 5.3. Antenna Connection

Connect a compatible CB antenna (e.g., PNI brand antennas) to the antenna connector on the rear panel of the radio. A properly tuned antenna is crucial for optimal performance and to prevent damage to the radio's transmitter.

### 5.4. Microphone Connection

Plug the microphone's RJ-45 connector into the MIC jack on the front panel of the radio.




**Figure 5.2:** The JOPIX GS30 CB Radio with its microphone connected, showing the coiled cord extending from the front panel.

## 6. Operating Instructions

### 6.1. Power On/Off and Volume

Rotate the **VOL** knob clockwise to turn on the radio and adjust the listening volume. Rotate counter-clockwise until it clicks to turn off.

### 6.2. Channel Selection

Use the UP/DOWN buttons on the microphone (or dedicated channel buttons if available via the F function) to select the desired channel (1-40).

### 6.3. AM/FM Modulation

Press the **A/F** button to switch between AM (Amplitude Modulation) and FM (Frequency Modulation) modes. The selected mode will be indicated on the display.

### 6.4. Squelch Control (SQ / ASQ)

The GS30 features both manual Squelch (SQ) and Automatic Squelch (ASQ). Press the**SQ** button to activate/deactivate squelch. Adjust the squelch level to eliminate background noise when no signal is present. The ASQ feature automatically adjusts the squelch level for optimal reception, especially in busy areas, filtering out weak or noisy signals.

### 6.5. RF Gain (RFG)

Press the **RFG** button to adjust the RF Gain. This function controls the sensitivity of the receiver, allowing you to reduce interference from strong nearby signals or boost weak distant signals.

### 6.6. Channel Scan (SC)

Press the **SC** button to activate the channel scan function. The radio will automatically scan through channels and stop on an active channel. Press **SC** again to stop scanning.

### 6.7. Emergency Channels (EMG)

Press the **EMG** button to quickly switch to emergency channels (typically Channel 9 for emergency calls and Channel 19 for highway information). Press again to return to the previous channel.

### 6.8. Noise Blanker (NB)

The built-in NB (Noise Blanker) filter significantly reduces impulse noise, such as ignition noise from vehicles, improving audio clarity. This feature is automatically active.

### 6.9. Roger Beep

The Roger Beep function emits a short tone at the end of your transmission, signaling to other users that you have finished speaking. This feature can typically be enabled or disabled via the Function (F) menu.

### 6.10. TOT (Time Out Timer)

The TOT function limits the maximum transmission time to prevent accidental continuous transmission and overheating. If the PTT button is held down for too long, the radio will automatically stop transmitting and emit a warning tone.

## 7. Maintenance

- Clean the radio's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure all connections (power, antenna, microphone) are secure and free from corrosion.
- Regularly check the antenna for damage and ensure it is properly tuned for optimal performance.
- Store the radio in a cool, dry place when not in use for extended periods.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No power | Loose power connection, blown fuse, incorrect voltage. | Check power cable, inspect fuse, ensure 12-24V DC supply. |
| No reception or poor reception | Antenna not connected, damaged antenna, high squelch level, RF Gain too low. | Check antenna connection, inspect antenna, reduce squelch, increase RF Gain. |
| Cannot transmit | Microphone not connected, PTT button faulty, antenna issue. | Ensure microphone is connected, test PTT, check antenna. |
| Excessive background noise | Squelch too low, strong interference. | Increase squelch level, activate NB filter, adjust RF Gain. |

## 9. Specifications

| Feature | Specification |
|---|---|

| Feature | Specification |
|---|---|
| Product Code | PNI-GS30 |
| Frequency | 26.565 - 27.99125 MHz |
| Modulation Type | AM-FM |
| Channels | 40 |
| Power Supply | 12-24 V DC |
| Dimensions (L x H x D) | 124 x 101 x 36 mm |
| Weight | 428 g |
| Microphone Type | RJ-45 |
| Sensitivity (10dB) | 1 µV |
| Speaker Audio Power | 3 W at 8 Ohms |
| Audio Signal Distortion | Less than 8% at 1 KHz |
| Transmission Power | 4 W |
| Current Consumption | 3A maximum |
| Operating Temperature | -26 ~ +55°C |
| Special Features | Channel Scan, RF Gain, ASQ (Automatic Squelch), Keypad Lock, NB (Noise Blanker) Filter, Roger Beep, Multicolor Display, Emergency Channel Button (9/19), Adjustable ASQ, TOT (Time Out Timer) |
| Rear Panel Connections | External Speaker Connection |

## 10. Warranty and Support

The JOPIX GS30 CB Radio Station comes with a**2-year manufacturer's warranty**. For warranty claims or technical support, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty validation. For further assistance, you may visit the Jopix brand page on Amazon or contact the seller PNI-EU for product-specific inquiries.

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