Jopix HAM10

Jopix HAM-10 Amateur Radio Station Instruction Manual

Introduction

The Jopix HAM-10 is a versatile multi-mode amateur radio station designed for reliable communication across the 28.000-29.700 MHz frequency range. It supports various modes including FM, AM, USB, LSB, CW, and PA, making it suitable for a wide array of amateur radio operations. This manual provides detailed instructions for the setup, operation, and maintenance of your HAM-10 radio to ensure optimal performance and user experience.

Safety Information

Please read and understand all safety precautions before operating the Jopix HAM-10. Failure to follow these guidelines may result in injury, damage to the equipment, or voiding the warranty.

- **Power Supply:** Use only a regulated 13.8V DC power supply. Ensure correct polarity when connecting the power cable.
- **Antenna:** Always connect a properly tuned 50-ohm antenna before transmitting to prevent damage to the transceiver.
- **Ventilation:** Ensure adequate airflow around the unit to prevent overheating, especially during prolonged transmission.
- **Environment:** Avoid exposing the radio to extreme temperatures, direct sunlight, moisture, dust, or corrosive environments.
- **Servicing:** Do not attempt to open or service the unit yourself. Refer all servicing to qualified technicians.

Package Contents

Carefully unpack your Jopix HAM-10 and verify that all the following items are included:

- Jopix HAM-10 Radio Station
- Microphone
- DC Power Cable
- Microphone Holder
- Mounting Bracket and Hardware

Product Overview

Familiarize yourself with the various components and controls of your Jopix HAM-10 radio.

Front Panel Controls



This image displays the front panel of the Jopix HAM-10 radio. It features a multi-color LCD display for frequency and channel information, along with various control knobs and buttons. Key controls include the volume/power knob, RF gain, mode selector, and function buttons for advanced features.

- **VOL/OFF:** Volume control and power switch.
- **SQ:** Squelch control to suppress background noise.
- **RFG:** RF Gain control for adjusting receiver sensitivity.
- **BAND:** Band selection knob.
- **MODE:** Selects operating mode (FM, AM, USB, LSB, CW, PA).
- **FUNC:** Function button for accessing secondary features.
- **COR/TOT:** Controls Carrier Operated Relay and Time-Out Timer.
- **DW/L-OFF:** Dual Watch activation and Key Lock function.
- **SCAN/S.LIST:** Initiates channel scan or accesses scan list.
- **CAL:** Calibration function.
- **SWR/PWR/S/RF Meter:** Displays Standing Wave Ratio, Power Output, Signal Strength, and RF Output.

Rear Panel Connections



This image shows the rear panel of the Jopix HAM-10 radio. It provides essential connection points for external devices.

- **ANT:** SO-239 connector for antenna connection.
- **SP:** 3.5mm jack for an optional external speaker.
- **POWER:** DC 13.8V power input connector.
- **CW:** Connection for Morse Code key.
- **Programming Connection:** Port for connecting to a computer for programming.

Microphone





This image details the included 4-pin microphone for the Jopix HAM-10. It features buttons for convenient channel selection and automatic squelch control.

- **UP/DN:** Channel Up/Down buttons.
- **AQ:** Automatic Squelch activation button.
- **MT:** Monitor or Mute button.

Setup

Installation

1. **Mounting:** Use the provided mounting bracket to install the radio in a suitable location, either mobile in a vehicle or as a base station on a desktop. Ensure the location allows for proper ventilation.
2. **Power Connection:** Connect the DC power cable to the POWER input on the rear panel. Connect the other end to a stable 13.8V DC power source, ensuring correct positive (+) and negative (-) polarity.
3. **Antenna Connection:** Connect a 50-ohm antenna, tuned for the 28-29.7 MHz band, to the ANT connector on the rear panel. Ensure the connection is secure.
4. **Microphone Connection:** Plug the 4-pin microphone connector into the microphone jack on the front panel.
5. **External Speaker (Optional):** If desired, connect an 8-ohm external speaker to the SP jack on the rear panel.

Operating Instructions

Basic Operation

1. **Power On/Off:** Rotate the VOL/OFF knob clockwise to turn the radio on, and counter-clockwise to turn it off.
2. **Volume Adjustment:** Adjust the VOL knob to your desired listening level.
3. **Squelch Adjustment:** Rotate the SQ knob clockwise until background noise disappears. For automatic squelch, press the AQ button on the microphone.

4. **Channel/Frequency Selection:** Use the main channel selector knob on the front panel or the UP/DN buttons on the microphone to change channels or frequencies.
5. **Mode Selection:** Press the MODE button repeatedly to cycle through the available operating modes: FM, AM, USB, LSB, CW, and PA.
6. **Transmission Power:** The radio offers selectable transmission power (4W / 8W / 40W for FM/SSB/CW, and 12W for AM). Refer to the manual's advanced settings for power adjustment.

Advanced Features

- **RF Gain:** Adjusts the sensitivity of the receiver. Useful in areas with strong signals to prevent overload or in weak signal conditions to boost reception.
- **ASQ (Automatic Squelch):** Provides automatic squelch control, simplifying operation by eliminating the need for manual adjustment.
- **Dual Watch:** Allows monitoring two different channels simultaneously. The radio will switch to the active channel.
- **Scan:** Automatically scans through channels or a pre-programmed memory list to find active transmissions.
- **Key Lock:** Locks the keypad and certain controls to prevent accidental changes to settings.
- **Noise Filters (NB, ANL, Hi-Cut):**
  - **NB (Noise Blanker):** Reduces impulse noise, such as ignition noise.
  - **ANL (Automatic Noise Limiter):** Limits strong noise pulses.
  - **Hi-Cut:** Filters out high-frequency audio components to reduce hiss.
- **Roger Beep:** Transmits a short audible tone at the end of your transmission, signaling to other operators that you have finished speaking.
- **Clarifier:** Allows for fine-tuning of the reception frequency, particularly useful in SSB modes to achieve clear voice reproduction.
- **Echo Function:** Adds an echo effect to your transmitted audio.
- **TOT (Time-Out Timer):** Limits the maximum duration of a continuous transmission to prevent accidental long transmissions and conserve power.
- **Talkback:** Enables you to monitor your own transmitted audio through the speaker.
- **Key Tone:** Provides audible feedback when buttons are pressed.
- **Emergency Channel (9/19):** Provides quick access to designated emergency channels.
- **Multi-color Display:** Customize the backlight color of the LCD display for personal preference or optimal visibility.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Jopix HAM-10.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the radio. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and internal components.
- **Environmental Conditions:** Keep the unit in a clean, dry environment. Protect it from dust, moisture, and extreme temperatures.
- **Connections:** Periodically check all cable connections (power, antenna, microphone, external speaker) to ensure they are secure and free from corrosion.

Troubleshooting

If you encounter issues with your Jopix HAM-10, refer to the following common problems and solutions:

- **No Power:**

- Check the power cable connection to the radio and the power source.
- Verify the 13.8V DC power source is functioning correctly.
- Check the inline fuse on the power cable; replace if blown.

- **No Transmission or Poor Signal:**
  - Ensure the antenna is properly connected and tuned for the operating frequency.
  - Check the SWR (Standing Wave Ratio) of your antenna system. High SWR can indicate a problem.
  - Verify the transmission power setting is appropriate.
  - Ensure the microphone is securely connected and functioning.
- **No Reception or Poor Audio:**
  - Adjust the volume (VOL) and squelch (SQ) knobs.
  - Check the antenna connection.
  - Ensure the correct operating mode (FM, AM, USB, LSB, CW) is selected.
  - Adjust the RF Gain if signals are too weak or too strong.
- **Excessive Noise:**
  - Adjust the squelch level.
  - Activate the NB (Noise Blanker), ANL (Automatic Noise Limiter), or Hi-Cut filters.
  - Check for external sources of electrical interference.

Specifications

Feature	Value
Product Code	HAM10
Brand	Jopix
Frequency Range	28.000-29.700 MHz (Programmable)
Band Type	PA - CW - AM - FM - LSB - USB
Channels	40
Power Supply	13.8 V DC
Dimensions (L x H x D)	175 x 55 x 130 mm
Weight	1.41 kg
Microphone Type	4-pin
Speaker Audio Power	3 W, 8 ohm
Transmission Power	4 W / 8 W / 40 W (FM/SSB/CW), 12 W (AM)
Mounting	Mobile, 1 DIN
EEPROM Memory	Yes
External Speaker Jack	Yes, 3.5 mm
Dual Watch	Yes

Feature	Value
Channel Scan	Yes
RF Gain	Yes
ASQ (Automatic Squelch)	Yes
Key Lock	Yes
Noise Filters	NB (Noise Blanker), ANL (Automatic Noise Limiter), HI-CUT
Roger Beep	Yes
Clarifier	Yes
Multi-color Display	Yes
Emergency Channel Button	Yes (9/19)
Echo Function	Yes
Programmable	Yes
TOT (Time-Out Timer)	Yes
Operating Temperature	-10°C to +55°C
Talkback	Yes
Key Tone	Yes
CW Connection	Yes
Programming Connection	Yes
Max Talk Range	20 Kilometers
Water Resistance Level	Not water resistant

Warranty Information

The Jopix HAM-10 Amateur Radio Station is covered by a standard manufacturer's warranty. For specific details regarding the warranty period, coverage, and terms and conditions, please refer to the warranty card included with your product packaging. Alternatively, you may contact your authorized Jopix dealer or the point of purchase for further information.

Support

For technical assistance, troubleshooting guidance beyond this manual, or customer service inquiries, please reach out to your authorized Jopix dealer. You may also visit the official Jopix website for additional resources, FAQs, and contact information.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Where can I find the instruction manual for the Jopix HAM-10 amateur radio?

You can find the instruction manual for the Jopix HAM-10 directly on this page. Below is a summary of the key setup and operating instructions for your device:Power Connection: Connect the DC power cable...

Read full answer