ZHIWHIS ZWS-A320

ZHIWHIS ZWS-A320 Shortwave Radio User Manual

Model: ZWS-A320

1. Introduction

The ZHIWHIS ZWS-A320 is a versatile and portable multi-band radio designed for a wide range of listening experiences. It combines traditional radio functionalities (AM, FM, SW, VHF, WB) with modern features such as Bluetooth connectivity, APP control, TF card playback, and recording capabilities. This manual provides detailed instructions for setting up, operating, and maintaining your ZWS-A320 radio.



Figure 1.1: ZHIWHIS ZWS-A320 Shortwave Radio
This image displays the ZHIWHIS ZWS-A320 Shortwave Radio, highlighting its compact design, digital display, manual tuning dial, and control buttons.

2. What's in the Box

Please check the package contents to ensure all items are present:

- 1 x ZWS-A320 APP Control Shortwave Radio

- 1 x 2000mAh Lithium Battery (pre-installed or separate)
- 1 x USB Type-C Data Charging Cable (39.4 inches length)
- 1 x Small Screwdriver
- 1 x Carrying Case
- 2 x English User Manuals
- 1 x Exquisite Packing Box
- 1 x Dust Brush
- 1 x Hand Strap
- 1 x Lanyard



Figure 2.1: ZWS-A320 Package Contents
This image shows all items included in the ZWS-A320 package, neatly laid out: the radio, battery, USB-C cable, screwdriver, carrying case, user manuals, packing box, dust brush, hand strap, and lanyard.

3. Product Overview and Features

The ZWS-A320 radio is equipped with a variety of features to enhance your listening and user experience:

- **Multi-Band Reception:** Supports FM, VHF (30.0-199.975MHz), AM, SW (3.20-21.95MHz), and Weather Band (WB) with NOAA emergency alert function.
- **Bluetooth Connectivity:** Seamlessly connect to your smartphone or other Bluetooth devices for audio playback and APP control.
- **APP Remote Control:** Control various radio functions, tune, select bands, adjust EQ, and manage memory channels via a dedicated smartphone application.
- **TF Card Playback:** Play audio files (MP3, WAV, WMA, APE, FLAC) directly from an optional TF memory card (up to 256GB supported).
- **Radio Recording:** Record current broadcasts directly from the device or via the APP.
- **Superior Sound Quality:** Features a 2-inch 5W high-quality speaker with a bass radiator and 6 equalization options for rich audio.
- **Dynamic Light Effects:** Five different types of lighting effects, including personalized music spectrum lights that change with sound.
- **Alarm Clock & Sleep Timer:** Digital clock with alarm function and adjustable sleep timer (10-120 minutes).

- **Flashlight & SOS Alarm:** Built-in LED flashlight and emergency SOS alarm for utility and safety.
- **Portable Design:** Compact size (4x2x4.7 inches, 0.79 lb) with included carrying case, lanyard, and hand strap.
- **Replaceable Battery:** Uses a 2000mAh lithium battery, rechargeable via USB-C, providing up to 20 hours of use.



Figure 3.1: ZWS-A320 Key Features

This image visually summarizes the key features of the ZWS-A320 radio, including its flashlight, SOS alarm, speaker, earphone jack, sleep timer, app control, memory, and recording capabilities, along with battery life information.

4. Setup

4.1 Battery Installation and Charging

The ZWS-A320 uses a replaceable 2000mAh lithium battery. If the battery is not pre-installed, follow these steps:

1. Locate the battery compartment on the back of the radio.
2. Use the provided small screwdriver to open the battery compartment cover.
3. Insert the 2000mAh lithium battery, ensuring correct polarity.
4. Close the battery compartment cover and secure it with the screw.

To charge the battery:

- Connect the supplied USB Type-C cable to the radio's USB-C port.
- Connect the other end of the cable to a USB power adapter (not included) or a computer's USB port.
- The battery indicator on the display will show charging status. A full charge takes approximately 4 hours and provides up to 20 hours of usage.



Figure 4.1: Battery Compartment and Charging

This image illustrates the ZWS-A320's battery compartment, showing the removable 2000mAh lithium battery and the USB Type-C charging port. A battery indicator bar is also shown on the display.

4.2 Antenna Extension

For optimal reception, especially on FM, VHF, and SW bands, fully extend the built-in telescopic antenna. The antenna is made of high-toughness material to prevent breakage.

4.3 Initial Power On

Press and hold the **POWER/SLEEP** button to turn on the radio. The display will illuminate, and the radio will start in the last used mode.

5. Operating Instructions

5.1 Basic Controls

- **Power On/Off:** Press and hold **POWER/SLEEP** button.
- **Volume Adjustment:** Use the **VOL+** and **VOL-** buttons.
- **Tuning:** Use the large rotary knob on the right side for coarse tuning or the**TUNE+/NEXT** and **TUNE-/PREV** buttons for fine tuning.
- **Band Selection:** Press the **BAND/TIME SET** button to cycle through FM, VHF, AM, SW, and WB bands.



Figure 5.1: Control Layout and Light Effects

This image highlights the various control buttons and tuning knobs on the ZWS-A320 radio, along with illustrations of its five different light effects (LCD backlight, rotary knob light, decoration light, V/U meter, and flashlight).

5.2 Radio Reception

The ZWS-A320 supports a wide range of frequencies:

- **VHF:** 30.000-199.975MHz

- **WB (Weather Band):** 162.400-162.550MHz
- **SW (Shortwave):** 3.20-21.95MHz
- **AM:** 520-1710KHz
- **FM:** 64-108MHz (can be set to cover all international FM bands)

To find stations:

- **Auto Scan:** Press and hold the **MEMO**/**ATS** button to automatically scan and save strong channels.
- **Manual Tuning:** Use the tuning knobs or buttons to manually adjust the frequency.



Figure 5.2: Full Band Reception Capabilities
This image demonstrates the ZWS-A320's ability to receive various frequency bands (VHF, WB, SW, AM, FM), with a visual representation of radio waves and a satellite dish, indicating its strong reception.

5.3 Memory Channels

The radio can store up to 796 channels (199 for each band: FM/VHF/AM/SW).

- **Saving Channels:** Tune to the desired station, then press the**MEMO/ATS** button briefly to save it to a

memory location. Follow on-screen prompts if any.

- **Recalling Channels:** Use the **MEMO/ATS** button or number keys to recall saved channels.
- **Deleting Channels:** Channels can be manually deleted as needed. Refer to the on-screen menu or specific button combinations for this function.

5.4 Bluetooth Pairing

To connect your device via Bluetooth:

1. Press the **MOD./BT** button to switch to Bluetooth mode. The display will show a Bluetooth icon.
2. On your smartphone or Bluetooth-enabled device, search for available Bluetooth devices.
3. Select "ZWS-A320" from the list to pair. Once connected, the radio will indicate successful pairing.



Figure 5.3: Bluetooth 5.0 Connectivity
This image shows the ZWS-A320 radio connected via Bluetooth to a smartphone, illustrating the wireless audio streaming capability.

5.5 APP Remote Control

The ZWS-A320 can be controlled via a dedicated smartphone application. This app provides comprehensive control over volume, tuning, band selection, EQ settings, and allows programming of 796 memory channels with custom names and descriptions.

- **Download the APP:** The app is available for Android and iOS. For Android, you can download the APK directly from: http://www.szdipusi.cn/file/Radio-c.apk. For iOS, search in the App Store.
- **Connect to APP:** Ensure Bluetooth is enabled on both the radio and your smartphone. Open the app and follow the instructions to connect to the ZWS-A320.



Figure 5.4: APP Control Functionality
This image shows the ZWS-A320 radio alongside a smartphone displaying the radio's control application interface, demonstrating the remote control capabilities.

5.6 TF Card Playback

To play audio from a TF (MicroSD) card:

- Insert a TF card (not included) into the TF card slot on the side of the radio.
- Press the **MOD./BT** button to switch to TF card playback mode.
- Use the **TUNE+/NEXT** and **TUNE-/PREV** buttons to navigate tracks.
- Supported audio formats include MP3, WAV, WMA, APE, and FLAC.



Figure 5.5: Side Ports and TF Card Slot

This image provides a close-up view of the ZWS-A320's side panel, showing the headphone jack, AUX input, USB Type-C charging port, and the TF/Micro SD card slot. It also lists the supported audio formats.

5.7 Radio Recording

The radio supports direct recording of broadcasts:

- Ensure a TF card is inserted.

- Tune to the desired radio station.
- Press the **REC** button (if available, or refer to manual for specific recording steps) to start recording. Press again to stop.
- Recordings are saved to the TF card.



Figure 5.6: Radio Recording in Progress
This image shows the ZWS-A320 radio with its display indicating a radio recording in progress, with a satellite dish in the background symbolizing broadcast reception.

5.8 Light Effects and EQ Settings

- **Light Effects:** The radio features five types of lighting effects, including an LCD backlight, rotary knob light, decoration lights, V/U meter, and a flashlight. These can be customized or turned off.
- **EQ Settings:** The radio offers 6 equalization options to tailor the audio output. Press the**EQ** button to cycle through the presets.

5.9 Alarm Clock and Sleep Timer

- **Alarm Clock:** Set an alarm time for the radio to automatically turn on. The radio will ring (buzzer sound) at the set time. Press any key to stop the alarm.
- **Auto Power-on:** The radio can be set to automatically turn on at a specific time.
- **Sleep Timer:** Set a regular shutdown time before sleep. The radio can automatically shut down after 10-120 minutes of operation.



Figure 5.7: Timer Functions

This image illustrates the ZWS-A320's timer functions, including auto power-on, alarm clock, and sleep timer, with the radio shown on a bedside table.

5.10 Flashlight and SOS Alarm

- **Flashlight:** Activate the built-in LED flashlight for illumination.
- **SOS Alarm:** In case of emergency, activate the loud SOS alarm.

5.11 PC Connection (Card Reader Mode)

You can connect the radio to a computer using the USB Type-C cable to access the TF card as a card reader. This allows for easy transfer of audio files to and from the TF card.



Figure 5.8: Two Types of Tuning Knobs
This image highlights the two distinct tuning knobs on the ZWS-A320 radio: a large rotary knob for general tuning and a smaller, more precise knob for fine adjustments, offering versatile control.

6. Maintenance

- **Cleaning:** Use the provided dust brush or a soft, dry cloth to clean the radio's exterior. Do not use liquid cleaners or abrasive materials.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. If storing the radio for an extended period, charge the battery to about 50% and store in a cool, dry place.
- **Antenna:** Handle the telescopic antenna with care to prevent bending or breaking. Retract it when not in use or during transport.
- **Storage:** Store the radio in its carrying case to protect it from dust and physical damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Low battery; Battery not installed correctly.	Charge the battery; Check battery installation and polarity.
Poor radio reception.	Antenna not extended; Weak signal area; Interference.	Fully extend the antenna; Relocate the radio; Move away from electronic devices causing interference.
Bluetooth connection issues.	Radio not in Bluetooth mode; Device too far; Pairing failed.	Ensure radio is in Bluetooth mode; Keep devices within range (10m); Re-attempt pairing.
TF card not recognized.	Card inserted incorrectly; Unsupported format; Corrupted card.	Reinsert TF card correctly; Ensure card is formatted to FAT32; Try a different TF card.
APP not connecting to radio.	Bluetooth not enabled; App not updated; Radio not discoverable.	Ensure Bluetooth is on for both devices; Update the app; Restart radio and app.

8. Specifications

Feature	Specification
Model Number	ZWS-A320
Product Dimensions	1.96"L x 3.9"W x 4.7"H (4x2x4.7 inches)
Item Weight	0.79 lb (12.5 ounces)
Tuner Technology	FM/AM/SW/VHF/WB (5-Band)
FM Frequency Range	64-108MHz
AM Frequency Range	520-1710KHz
SW Frequency Range	3.20-21.95MHz
VHF Frequency Range	30.0-199.975MHz
WB Frequency Range	162.400-162.550MHz

Feature	Specification
Connectivity Technology	Bluetooth 5.0
Speaker Output	5W (2-inch speaker)
Battery Type	1 x 2000mAh Lithium Ion (included)
Charging Port	USB Type-C
Charging Time	Approx. 4 hours
Play Time	Up to 20 hours (at 16 levels of volume in FM)
TF Card Support	Up to 256GB (MP3, WAV, WMA, APE, FLAC)
Special Features	Portable, Built-In AM Antenna, Built-In Clock, Rechargeable, Built-In Flashlight, APP Control, Recording, EQ Options, SOS Alarm.

9. Warranty and Support

ZHIWHIS offers a high-quality guarantee for the ZWS-A320 Shortwave Radio. If you encounter any issues with the product, please contact customer service for assistance.

- **Warranty:** Full 12-month guarantee.
- **Customer Service:** 24/7 support available to address any questions or concerns.

Please refer to the contact information provided with your purchase or on the official ZHIWHIS website for support.

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