Audibax Sidney U310

Audibax Sidney U310 Dual UHF Wireless Microphone System User Manual

Model: Sidney U310 | Brand: Audibax

1. Introduction

The Audibax Sidney U310 is a professional dual UHF wireless microphone system designed for high-quality audio transmission. Featuring 100 selectable channels, it allows for flexible operation and the ability to use up to 8 systems simultaneously without interference. Its robust construction and clear sound quality make it an ideal choice for presentations, live performances, and vocalists seeking a reliable and professional wireless solution.



Figure 1.1: Audibax Sidney U310 Dual UHF Wireless Microphone System components.

2. Package Contents

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

- 1 x Audibax Sidney U310 Receiver Unit
- 2 x Handheld Wireless Microphones
- 1 x Power Adapter
- 2 x Antennas
- 1 x Audio Cable (XLR to 1/4" Jack)
- 1 x User Manual
- Batteries (AA, quantity as required for microphones)

3. Product Features

- **Professional Wireless Microphone System:** The Sidney U310 is a dual UHF wireless microphone system that includes two high-quality handheld wireless microphones. Thanks to the receiver's Diversity antennas, a better signal is captured, providing coverage up to 100 meters.
- **Clean Sound Without Interference:** The sensitivity of the professional microphones allows for more

effective capture of even the weakest sounds, all without signal saturation, boasting a signal-to-noise ratio of over 100 dB.

- **Lag-Free Connection:** The set includes a dual receiver with a display showing RF/AF indicators and independent volume control for each microphone. The reception frequency is 620-681 MHz, with a frequency response of 40 Hz - 16 KHz.
- **Quality Power and Battery Life:** This system operates on 100-240V AC power for the receiver. The two microphones are easy to adjust with their On/Off and Mute system. They are powered by AA batteries, offering extended autonomy.
- **Versatile Application:** This wireless microphone system has multiple applications for communication and singers who want to record their voice, as well as for more professional functions on stage or during conferences.



Figure 3.1: Front panel of the Audibax Sidney U310 Receiver.




Wireless Microphone
647.900
MHz
PILOT
AUDIBAX
Wireless Microphone
653.300
MHz
PILOT
AUDIBAX



Figure 3.2: Audibax Sidney U310 Handheld Microphones.

4. Setup Guide

Follow these steps to set up your Audibax Sidney U310 wireless microphone system:

1. **Connect Antennas:** Screw the two included antennas onto the antenna connectors at the rear of the receiver unit. Ensure they are securely fastened.
2. **Connect Power:** Connect the power adapter to the DC 12-15V input on the rear of the receiver unit, then plug the adapter into a suitable power outlet (100-240V AC).
3. **Connect Audio Output:** Connect the receiver's audio output (MIXED OUTPUT or individual MIC A/B OUTPUTs) to your mixer, amplifier, or sound system using the appropriate audio cable (e.g., XLR or 1/4" jack).
4. **Install Microphone Batteries:** Unscrew the bottom part of each handheld microphone and insert the required AA batteries, observing the correct polarity. Screw the bottom part back on securely.
5. **Power On:** Press the power button on the receiver unit to turn it on. The display should illuminate. Then, press the power button on each microphone to turn them on.
6. **Frequency Synchronization:** The system should automatically synchronize frequencies. If not, refer to the operating instructions for manual frequency selection and pairing.



Figure 4.1: Rear panel of the Audibax Sidney U310 Receiver with connection ports.

5. Operating Instructions

Once the system is set up, follow these instructions for operation:

1. **Power On/Off:**
   - To turn on the receiver, press the **POWER** button on the front panel.
   - To turn on each microphone, press and hold the power button located on the microphone body until the

display illuminates.
    - To turn off, repeat the process for both receiver and microphones.
2. **Volume Control:** Adjust the output volume for each microphone independently using the dedicated volume knobs on the receiver's front panel.
3. **Frequency Selection (if needed):**
    - On the receiver, use the **UP/DOWN** buttons to navigate through available channels.
    - Press the **SET** button to confirm a channel selection.
    - Ensure the microphone is within range and synchronized with the selected frequency. The receiver display will show RF/AF indicators.
4. **Microphone Mute Function:** Briefly press the power button on the microphone to toggle between active and mute modes. The microphone display will indicate the mute status.
5. **Monitoring:** Monitor the audio output through your connected sound system. Adjust volume levels on both the receiver and your sound system for optimal performance.



Figure 5.1: Receiver display showing frequency and channel information.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Audibax Sidney U310 system:

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Do not use liquid cleaners, solvents, or abrasive materials, as they may damage the finish or internal components.

- **Battery Replacement:** Replace microphone batteries when the low battery indicator appears on the microphone display or when audio quality degrades. Always use fresh, high-quality AA batteries. Remove batteries if the microphones will not be used for an extended period to prevent leakage.
- **Storage:** Store the system in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. When transporting, use appropriate padding to protect the components from physical shock.
- **Antenna Care:** Handle antennas carefully. Avoid bending or forcing them, as this can damage the connectors and affect signal reception.

7. Troubleshooting

If you encounter issues with your Audibax Sidney U310 system, refer to the table below for common problems and their solutions:

Problem	Possible Cause	Solution
No sound from microphone	Microphone or receiver not powered on; Mute function active; Low microphone battery; Incorrect frequency; Audio cable disconnected.	Ensure all units are powered on; Deactivate mute; Replace batteries; Resynchronize frequency; Check audio cable connections.
Interference or static noise	Other wireless devices on same frequency; Obstructions; Too far from receiver.	Change to a different frequency channel; Reduce distance between microphone and receiver; Remove obstructions; Avoid placing receiver near other electronic devices.
Short operating range	Antennas not properly connected or positioned; Environmental interference; Low microphone battery.	Ensure antennas are securely connected and extended; Position receiver in line of sight; Replace microphone batteries.
Microphone display not working	Dead or incorrectly inserted batteries.	Replace batteries, ensuring correct polarity.

8. Technical Specifications

Receiver Specifications:

- **Frequency Range:** UHF 620 ~ 681 MHz
- **Signal-to-Noise Ratio (S/N):** > 100 dB
- **Frequency Stability:** ± 0.03%
- **Dynamic Response Range:** > 100 dB
- **Operating Distance:** 50 ~ 100 meters (line of sight)

- **Operating Temperature:** -20 °C ~ +50 °C
- **Maximum Frequency Deviation:** ± 15 KHz
- **Audio Distortion:** ≤ 0.02%
- **Frequency Response:** 40 Hz - 16 KHz
- **Nominal Operating Current:** 480 mA
- **DC Working Voltage:** 12 ~ 15 V
- **AC Working Voltage:** 100 ~ 240 V
- **Dimensions (L x W x H):** 45 x 7 x 29 cm (approx.)
- **Number of Channels:** 100
- **Connectivity:** UHF
- **Connector Type:** XLR

Transmitter (Microphone) Specifications:

- **Frequency Range:** UHF 620 ~ 681 MHz
- **Signal-to-Noise Ratio (S/N):** > 100 dB
- **Frequency Stability:** ± 0.03%
- **Dynamic Response Range:** > 100 dB
- **Operating Distance:** 50 ~ 100 meters (line of sight)
- **Transmission Power:** 5 ~ 10 mW
- **Maximum Frequency Deviation:** ± 15 kHz
- **Audio Distortion:** ≤ 0.02%
- **Frequency Response:** 40 Hz - 16 KHz
- **Nominal Operating Current:** 105 mA
- **Battery Working Time:** 10-12 hours (depending on battery type and usage)
- **Polar Pattern:** Unidirectional
- **Power Source:** Battery powered (AA)

9. Warranty and Support

Audibax products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Audibax website. Keep your purchase receipt as proof of purchase for any warranty claims.
For further assistance, please contact Audibax customer support through their official channels.