## Sanag B51S Pro 16G

# Sanag Bone Conduction Headphones B51S Pro 16G User Manual

Model: B51S Pro 16G

## 1. INTRODUCTION

Thank you for choosing the Sanag Bone Conduction Headphones B51S Pro 16G. These open-ear wireless headphones are designed to provide high-quality audio while allowing you to remain aware of your surroundings. Featuring Bluetooth 5.3 connectivity, built-in 16GB memory, an integrated microphone, and IP68 waterproofing, they are suitable for various activities including gym workouts, running, cycling, and swimming. This manual provides instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

## 2. PRODUCT OVERVIEW

The Sanag B51S Pro 16G headphones utilize bone conduction technology, transmitting sound vibrations directly to your inner ear through your cheekbones, bypassing the eardrums. This open-ear design enhances situational awareness.

### Key Features:

- **Bone Conduction Technology:** Delivers audio through cheekbones, keeping ears open.
- **Bluetooth 5.3:** Ensures stable and efficient wireless connection.
- **Built-in 16GB Memory:** Allows for direct MP3 playback without a connected device.
- **IP68 Waterproof Rating:** Suitable for use in water, including swimming.
- **Integrated Microphone:** For hands-free calls.
- **Lightweight Design:** Weighs approximately 32g for comfortable wear.
- **Long Battery Life:** Up to 8 hours of music listening on a single charge.

### Components:

Refer to the diagram below for an overview of the headphone components and controls.

# Easy To Use

Introduction to key functions

Magnetic Waterproof Charging; Transmission Interface

Short press — volume down
long press — the previous song

Switch on/off and play pause, multi-function switching
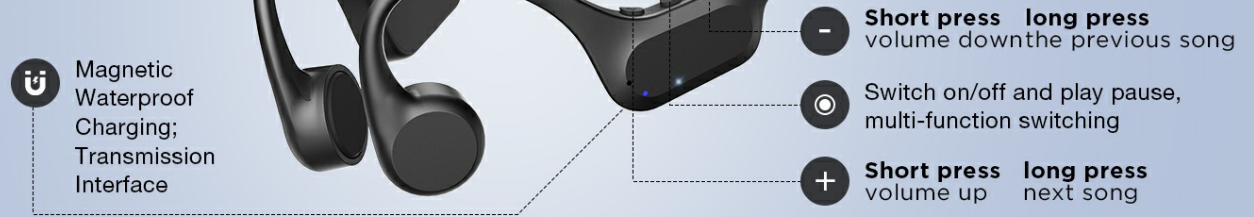
Short press — volume up
long press — next song

Figure 2.1: Headphone Components and Controls

1. On/Off Key (Multi-function button)

2. Minus Key (Volume Down / Previous Song)

3. Plus Key (Volume Up / Next Song)

4. Microphone

5. Pilot Lamp (LED Indicator)
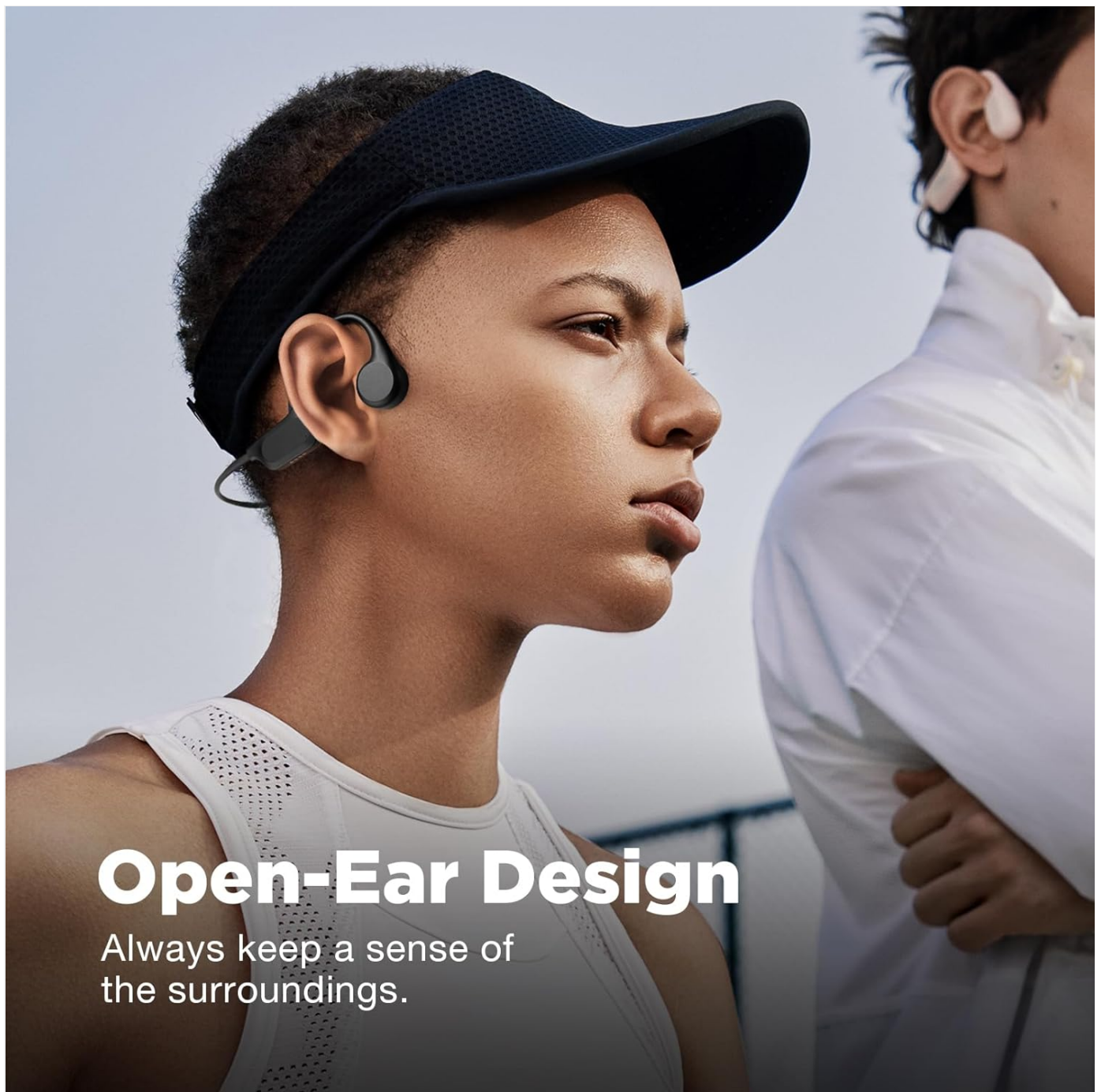
6. Magnetic Suction Data Charging Port

Figure 2.2: Open-Ear Design for Situational Awareness

The open-ear design allows you to hear ambient sounds, which is crucial for safety during outdoor activities like running or cycling.
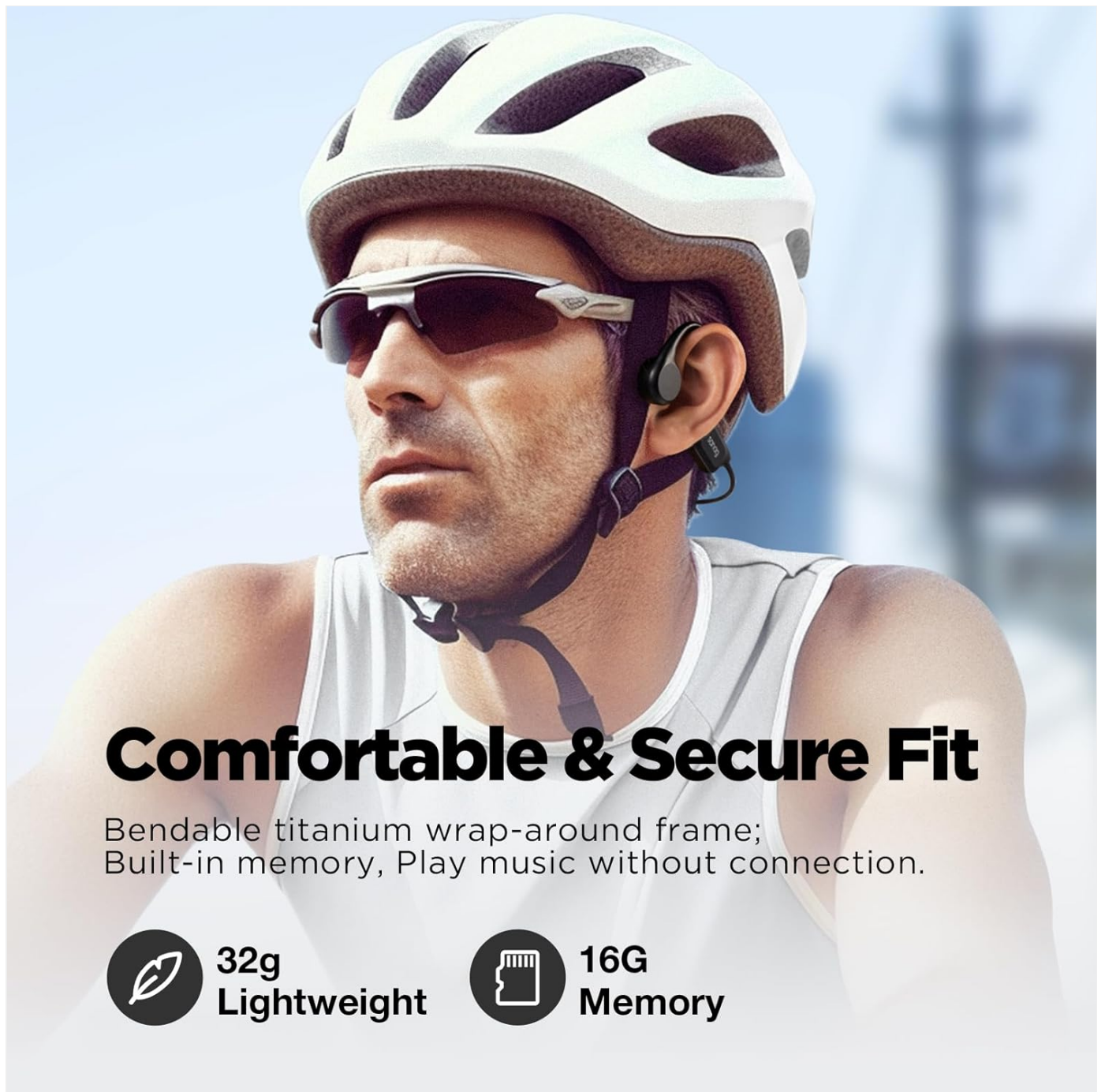
Figure 2.3: Balanced Stereo Audio Driver

Equipped with a 16mm diaphragm dynamic driver, these headphones deliver balanced audio quality.

Figure 2.4: Comfortable and Secure Fit

The bendable titanium wrap-around frame ensures a comfortable and secure fit for various head shapes, making them ideal for active use.

**Package Contents:**

Figure 2.5: Package Contents

- Sanag Bone Conduction Headphones
- User Manual (this document)
- Magnetic Suction Charging Cable

# 3. SETUP

## 3.1 Charging the Headphones

Before first use, fully charge your headphones.

1. Connect the magnetic charging cable to the charging port on the headphones.
2. Connect the other end of the cable to a USB power adapter (not included) or a computer's USB port.
3. The LED indicator (Pilot Lamp) will show charging status. A full charge takes approximately 1.5 hours.
4. Once fully charged, the LED indicator will change (refer to LED indicator section for details).

Figure 3.1: Charging the Headphones

A full charge provides up to 8 hours of music listening.

## 3.2 Powering On/Off

- **To Power On:** Press and hold the On/Off key (multi-function button) for 3 seconds until the LED indicator flashes.
- **To Power Off:** Press and hold the On/Off key (multi-function button) for 5 seconds until the LED indicator turns off.

## 3.3 Bluetooth Pairing

To connect your headphones to a Bluetooth-enabled device:

1. Ensure the headphones are powered off.
2. Press and hold the On/Off key (multi-function button) for 5-7 seconds until the LED indicator flashes red and blue alternately, indicating pairing mode.
3. On your device (smartphone, tablet, laptop), enable Bluetooth and search for available devices.
4. Select "Sanag B51S Pro" (or similar name) from the list.
5. Once connected, the LED indicator will flash blue slowly.

The headphones will automatically reconnect to the last paired device when powered on, if within range. The Bluetooth range is up to 10

meters.

# 4. OPERATING INSTRUCTIONS

## 4.1 Basic Controls

| Function | Action |
|---|---|
| **Power On/Off** | Press and hold Multi-function button for 3/5 seconds. |
| **Play/Pause** | Short press Multi-function button. |
| **Answer/End Call** | Short press Multi-function button. |
| **Reject Call** | Press and hold Multi-function button for 2 seconds. |
| **Volume Up** | Short press '+' button. |
| **Volume Down** | Short press '-' button. |
| **Next Track** | Long press '+' button. |
| **Previous Track** | Long press '-' button. |
| **Switch Bluetooth/MP3 Mode** | Double press Multi-function button. |

## 4.2 Using Built-in 16GB Memory (MP3 Mode)

Your headphones have 16GB of internal storage for MP3 files, allowing you to listen to music without a Bluetooth connection.

1. **Transferring Music:** Connect the headphones to a computer using the magnetic charging cable. The headphones will appear as a removable disk. Drag and drop your MP3 files into the headphone's storage.
2. **Switching to MP3 Mode:** Double press the Multi-function button to switch between Bluetooth mode and MP3 mode. The headphones will indicate the current mode.
3. **Underwater MP3 Playback:** In MP3 mode, the headphones can be used for music playback while swimming. Bluetooth connectivity is limited underwater.

## 4.3 Making Calls

When connected via Bluetooth to your smartphone:

- **Answer/End Call:** Short press the Multi-function button.
- **Reject Call:** Press and hold the Multi-function button for 2 seconds.
- **Redial Last Number:** Triple press the Multi-function button.

# 5. MAINTENANCE

## 5.1 Cleaning

- Wipe the headphones with a soft, damp cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the charging port is dry before charging.

## 5.2 Storage

- Store the headphones in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid placing heavy objects on the headphones.

## 5.3 Waterproofing (IP68)

The headphones have an IP68 waterproof rating, meaning they are protected against continuous immersion in water up to 2 meters deep for a specified duration.

- They are suitable for swimming in fresh water.
- Rinse with fresh water and dry thoroughly after exposure to chlorinated or salt water to prevent corrosion.
- Do not charge the headphones if wet.



Figure 5.1: IP68 Waterproof for Swimming

## 6. TROUBLESHOOTING

### Common Issues and Solutions:

- **No Power:**
  - Ensure the headphones are fully charged.
  - Press and hold the Multi-function button for 3 seconds to power on.

- **Cannot Pair via Bluetooth:**

  - Ensure the headphones are in pairing mode (LED flashing red and blue).
  - Turn off and on Bluetooth on your device.
  - Move closer to your device (within 10 meters).
  - Clear previous Bluetooth connections on your device.

- **No Sound:**

  - Check headphone and device volume levels.
  - Ensure headphones are correctly paired and connected.
  - If in MP3 mode, ensure music files are loaded correctly.
  - Switch between Bluetooth and MP3 modes to confirm the active source.

- **Poor Sound Quality:**

  - Ensure the headphones are positioned correctly on your cheekbones.
  - Check for interference from other wireless devices.
  - If using Bluetooth, move closer to your device.

- **Headphones not recognized by computer for MP3 transfer:**

  - Ensure the magnetic charging cable is securely connected.
  - Try a different USB port or computer.
  - Ensure the headphones are powered on when connected to the computer.

## 7. SPECIFICATIONS

| Feature | Detail |
|---|---|
| **Model Number** | B51S Pro 16G |
| **Connectivity Technology** | Wireless (Bluetooth) |
| **Bluetooth Version** | 5.3 |
| **Bluetooth Range** | 10 Meters |
| **Audio Driver Type** | Bone Conduction Driver |
| **Audio Driver Size** | 16 Millimeters |
| **Built-in Memory** | 16GB (for MP3 playback) |
| **Water Resistance Level** | IP68 Waterproof |
| **Battery Life (Music)** | Up to 8 Hours |
| **Charging Time** | 1.5 Hours |
| **Control Type** | Media Control (Buttons) |
| **Microphone** | Included |
| **Item Weight** | 6.7 ounces (approx. 0.19 kg) |
| **Material** | Plastic, Silicone, and/or Thermoplastic Elastomer (TPE) |
| **Ear Placement** | Open Ear |
| **Noise Control** | Active Noise Cancellation (CVC noise reduction for calls) |

## 8. Warranty and Support

Sanag products are manufactured to high-quality standards. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided on the product packaging or the official Sanag website. Please retain your proof of purchase for warranty claims.

## 9. Important Safety Information

- Do not disassemble, repair, or modify the product.
- Keep away from extreme temperatures, direct sunlight, and fire.
- Do not use the headphones at excessively high volumes for prolonged periods to prevent hearing damage.
- Maintain awareness of your surroundings, especially when using the headphones outdoors or in traffic.
- Keep out of reach of children.

## 10. Product Video Overview

Your browser does not support the video tag.

Video 10.1: Official Sanag B91S Bone Conduction Headphones Overview. This video provides a visual introduction to the features and design of the headphones.