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› SHANLING M8T Flagship Digital Audio Player User Manual

## SHANLING M8T

# SHANLING M8T Flagship Digital Audio Player User Manual

Model: M8T

## 1. INTRODUCTION

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The SHANLING M8T is a flagship digital audio player designed for high-fidelity sound reproduction. It integrates advanced audio components, including dual JAN6418 tubes, dual AKM AK4499EX DACs, and a powerful amplifier, all running on an Android 13 operating system. This manual provides essential information for setting up, operating, and maintaining your M8T device.



Image 1.1: Front and side view of the SHANLING M8T Digital Audio Player. The device features a large screen on the front and a textured back panel with branding.

## 2. SETUP

### 2.1 Unboxing and Initial Inspection

Upon opening the package, ensure all components are present and undamaged. The standard package includes the SHANLING M8T Music Player unit.

### 2.2 Charging the Device

The M8T is equipped with an 8350mAh battery. Before first use, fully charge the device using the provided USB-C cable and a compatible charger. The device supports QC3.0 and PD2.0 fast charging, with up to 18W fast charging capability. A full charge typically takes several hours.

- Connect the USB-C cable to the M8T's charging port.

- Connect the other end of the cable to a USB power adapter.
- The screen will indicate charging status.

## 2.3 Powering On/Off

- **To Power On:** Press and hold the power button located on the side of the device until the SHANLING logo appears on the screen.
- **To Power Off:** Press and hold the power button until a power-off menu appears. Select 'Power Off'.
- **To Restart:** From the power-off menu, select 'Restart'.

## 2.4 Inserting Storage

The M8T features 128GB of internal storage and supports expandable storage via a MicroSD card slot (up to 2TB). To insert a MicroSD card:

- Locate the MicroSD card slot on the device.
- Gently insert the MicroSD card into the slot until it clicks into place.
- To remove, press the card inward until it springs out.

## 2.5 Initial System Configuration

Upon first power-on, follow the on-screen prompts to complete the initial Android 13 setup, including language selection, Wi-Fi connection, and Google account setup (optional). The M8T utilizes SHANLING's AGLO (Android Global Lossless Output) technology to bypass Android's SRC restrictions, ensuring pure audio output.

# 3. OPERATING INSTRUCTIONS

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## 3.1 User Interface Navigation

The M8T runs on a fully open Android 13 system, offering a familiar smartphone-like experience. Navigate using the 6-inch touchscreen display. Swipe gestures and on-screen buttons are used for app interaction and system control.



# M8T Android Portable Player

## Flagship Level Tube Sound

Two JAN6418 Tubes | Two AKM AK4499EX DACs with Two AK4191 Modulator | Traditional Op-Amp Headphone Amplifier | Up to 1125mW @ 32Ω Output Power | Newly Upgraded Android 13 System  
Qualcomm 665 CPU | XMOS USB Input | Hi-Res 32 bit / 768 kHz & DSD1024



Image 3.1: The SHANLING M8T displaying its Android interface with various application icons.

### 3.2 Music Playback

The M8T supports various methods for music playback:

- **Local Playback:** Use the built-in SHANLING Music app to play audio files stored on the device's internal memory or MicroSD card. It supports PCM up to 768kHz/32bit and DSD1024, including DST-encoded ISO format.
- **Streaming Applications:** Download and install popular music streaming apps such as Apple Music, Tidal, Qobuz, and

Spotify from the Google Play Store.

- **DLNA and AirPlay:** The M8T supports DLNA and AirPlay functions for network streaming. Connect to the Eddict Player app on Android or iOS devices for remote control.

### 3.3 Sound Modes

The M8T offers three distinct sound modes, allowing users to tailor the audio output to their preference:

- **Transistor Mode:** Provides a dynamic and impactful sound signature.
- **Triode Mode:** Adds a touch of warmth to the audio.
- **Ultra-Linear Mode:** Delivers a thick and smoothly relaxed sound.

These modes can be selected within the device's audio settings.

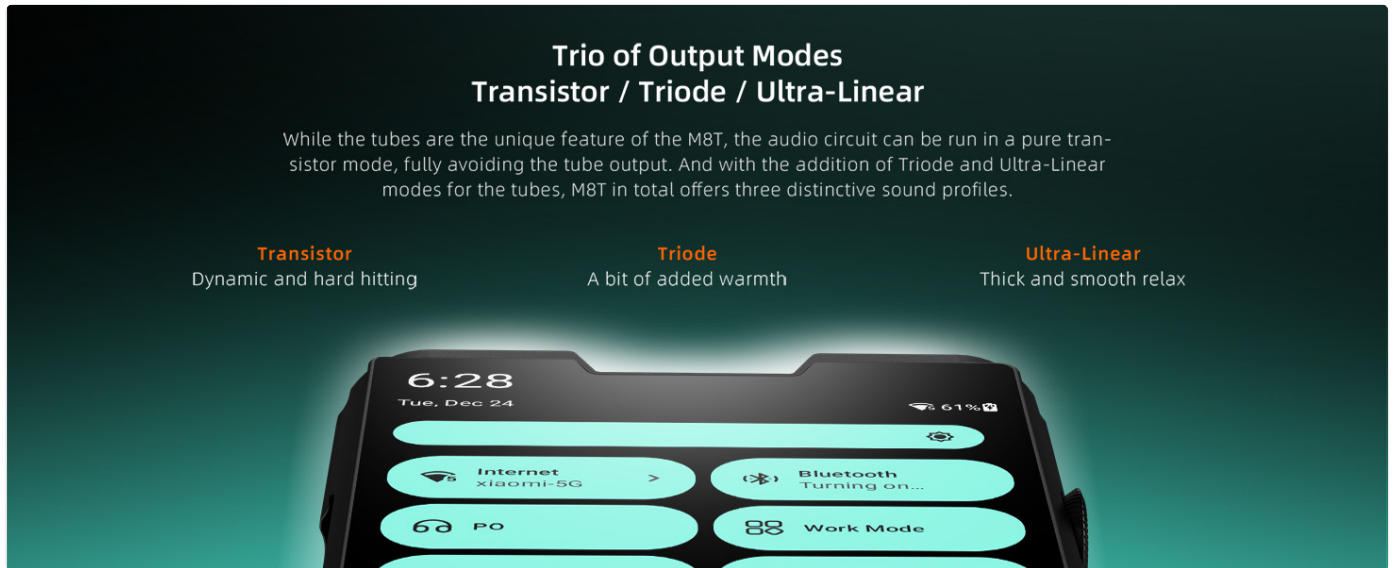


Image 3.2: Visual representation of the M8T's three sound output modes and their characteristics.

### 3.4 Headphone Connection

The M8T provides both single-ended and balanced headphone outputs with three levels of gain to match various headphones.

- **3.5mm Output:** Standard single-ended headphone jack.
- **4.4mm Output:** Balanced headphone jack for enhanced audio performance.

Adjust the gain setting in the device's audio menu to optimize output for your specific headphones, from sensitive in-ear monitors to demanding planar magnetics.



Image 3.3: The SHANLING M8T connected to a pair of over-ear headphones, demonstrating its use as a portable audio source.

### 3.5 Bluetooth Connectivity

The M8T features two-way Bluetooth 5.0 connectivity.

- **Transmitter Mode:** Connect the M8T to Bluetooth headphones or speakers. Supported codecs include LDAC, SBC, and AAC.
- **Receiver Mode:** Use the M8T as a high-quality Bluetooth DAC/AMP for your smartphone or tablet. Supported codecs include LDAC, SBC, and AAC.

### 3.6 Wi-Fi Connectivity

The device supports 2.4G/5G Wi-Fi for internet access, streaming, and over-the-air updates. Connect to your preferred Wi-Fi network via the Android settings menu.

### 3.7 USB DAC Functionality

The M8T can function as a USB DAC for your computer. Connect the device to your computer using a USB-C cable. The XMOS

XU316 USB input supports PCM up to 768kHz and DSD512.

## 4. MAINTENANCE

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### 4.1 Cleaning Instructions

To maintain the device's appearance and functionality:

- Wipe the screen and body with a soft, dry, lint-free cloth.
- Avoid using harsh chemicals, abrasive cleaners, or solvents.
- Keep the ports free of dust and debris.

### 4.2 Software Updates

SHANLING regularly releases firmware updates to improve performance and add features. Connect the M8T to Wi-Fi to check for and install over-the-air (OTA) updates via the system settings.

### 4.3 Battery Care

To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use for extended periods.
- Avoid exposing the device to extreme temperatures.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your SHANLING M8T.

### 5.1 Device Not Powering On

- Ensure the battery is charged. Connect the device to a charger for at least 30 minutes.
- Try a different USB-C cable and power adapter.
- Perform a forced restart by holding the power button for an extended period (e.g., 15-20 seconds).

### 5.2 No Sound Output

- Check the volume level on the device and any connected headphones/speakers.
- Ensure headphones are properly connected to the correct output port (3.5mm or 4.4mm).
- Verify that the correct output mode (e.g., headphone, Bluetooth) is selected in the settings.
- Test with different headphones or audio files.

### 5.3 Connectivity Issues (Wi-Fi/Bluetooth)

- **Wi-Fi:** Ensure the device is within range of the Wi-Fi network. Restart the M8T and your Wi-Fi router. Forget and re-add the Wi-Fi network in settings.
- **Bluetooth:** Ensure Bluetooth is enabled on both the M8T and the pairing device. Unpair and re-pair the devices. Move closer to the Bluetooth device to reduce interference.

### 5.4 Device Freezes or Becomes Unresponsive

- Press and hold the power button for approximately 10-15 seconds to force a restart.
- If the issue persists, consider performing a factory reset (**Note:** This will erase all data on the device. Back up important files first).

## 6. SPECIFICATIONS

Detailed technical specifications for the SHANLING M8T Digital Audio Player.

<p><b>Specifications:</b></p> <p>Dimensions 147 x 82 x 22mm  Weight 383g  Display 6.0-inch 1080x2160 Sharp  System Open Android 13  Audio Formats DSD (*.iso*, *.dsf*, *.dff*) / ISO / DXD / APE / FLAC / WAV / AIFF / ALF / DTS / MP3 / WMA / AAC / OGG / ALAC / MP2 / M4A / AC3 / M3U / M3U8 / OPU5  Hi-Res Support PCM 768kHz/32bit &amp; DSD 1024  USB DAC Support PCM 768kHz / 32bit, DSD 512  Memory 6GB LPDDR4X RAM + 128GB UFS 2.1 ROM + MicroSD Card Slot (Up to 2TB)  DAC Setup 2x4499EX DAC &amp; 2x4191EQ</p> <p>Bluetooth Version 5.0  Bluetooth Codec Support  Bluetooth Transmission: LDAC / SBC / AAC  Bluetooth Reception: LDAC / SBC / AAC  Wi-Fi Standards 2.4G/5G  Power &amp; Data Connector USB-C  Battery Capacity 8350mAh  Battery Life 15.5h (SE) 13h (BAL) 96h (BT)</p> <p>Headphone Output 3.5mm Single-ended + 4.4mm Balanced</p>	<p><b>3.5mm Output (Transistor) Output Power</b></p> <p>Low Gain: 1V@32Ω (31mW)  Medium Gain: 2V@32Ω (125mW)  High Gain: 4V@32Ω (500mW)  Frequency Response 20Hz-40kHz (0.2dB)  THD+N 0.0007%  Channel Separation 75dB@32Ω  Dynamic Range 124dB  Signal-to-Noise Ratio 124dB  Noise Floor &gt;117dB (Low Gain)  Output Impedance &lt;1Ω</p> <p><b>3.5mm Output (Tube)</b>  Output Power 3.7V@32Ω (420mW)  Frequency Response 20Hz - 40kHz (0.2dB)  Signal-to-Noise Ratio 120dB</p>	<p><b>4.4mm Output (Transistor) Output Power</b></p> <p>Low Gain: 2V@32Ω (125mW)  Medium Gain: 4V@32Ω (500mW)  High Gain: 6V@32Ω (1125mW)  Frequency Response 20Hz-40kHz (-0.2dB)  THD+N 0.0005%  Channel Separation 115dB@32Ω  Dynamic Range 127dB  Signal-to-Noise Ratio 127dB  Noise Floor &gt;114dB (Low Gain)  Output Impedance &lt;1Ω</p> <p><b>4.4mm Output (Tube)</b>  Output Power 5.5V@32Ω (950mW)  Frequency Response 20Hz - 40kHz (-0.2dB)  Signal-to-Noise Ratio 123dB</p>
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Image 6.1: A comprehensive table outlining the technical specifications of the SHANLING M8T.

Feature	Specification
Dimensions	147 x 82 x 22mm
Item Weight	1.7 pounds (approx. 771g)
Display	6.0-inch 1080x2160 Sharp OLED/AMOLED
Operating System	Open Android 13
CPU	Qualcomm Snapdragon 665 Octa-Core
RAM	6GB LPDDR4X
Internal Storage	128GB UFS 2.1 ROM
Expandable Storage	MicroSD Card Slot (Up to 2TB)
DAC Setup	Dual AKM AK4499EX DAC + Dual AK4191 Modulator
Tube Output	Dual JAN6418 Tubes
Supported Audio Formats	DSD (ISO, .dsf, .dff), ISO / DXD / APE / FLAC / WAV / AIFF / ALAC / DTS / MP3 / WMA / AAC / OGG / M4A / AMR / CUE / PCM
Hi-Res Support	PCM 768kHz/32bit, DSD1024
USB DAC Support	PCM 768kHz, DSD512 (via XMOS XU316)
Bluetooth Version	5.0 (Two-Way)
Bluetooth Codecs (Tx)	LDAC / SBC / AAC
Bluetooth Codecs (Rx)	LDAC / SBC / AAC

Feature	Specification
Wi-Fi Standards	2.4G / 5G (Qualcomm WCN3980)
Power & Data Connector	USB-C
Battery Capacity	8350mAh
Battery Life (Approx.)	15.5h (SE), 13h (BAL), 96h (BT)
3.5mm Output Power (Transistor)	Low Gain: 1V@32Ω (31mW) Medium Gain: 2V@32Ω (125mW) High Gain: 4V@32Ω (500mW)
4.4mm Output Power (Transistor)	Low Gain: 2V@32Ω (125mW) Medium Gain: 4V@32Ω (500mW) High Gain: 6V@32Ω (1125mW)
3.5mm Output Power (Tube)	Output Power: 3.7V@32Ω (420mW)
4.4mm Output Power (Tube)	Output Power: 5.9V@32Ω (950mW)

## 7. WARRANTY AND SUPPORT

SHANLING products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official SHANLING website. For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact SHANLING customer support through their official channels.

- **Official Website:** [www.shanling.com](http://www.shanling.com)
- **Customer Support:** Refer to the contact information provided on the official website or your product's documentation.