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SHANLING M6 Ultra

SHANLING M6 Ultra Digital Audio Player Instruction Manual

Model: M6 Ultra

1. Introduction

The SHANLING M6 Ultra is a high-resolution digital audio player designed for exceptional sound quality and versatile functionality. Featuring an open Android 10 system, a vibrant 5-inch HD touch screen, and advanced audio components, it provides a premium portable music experience.

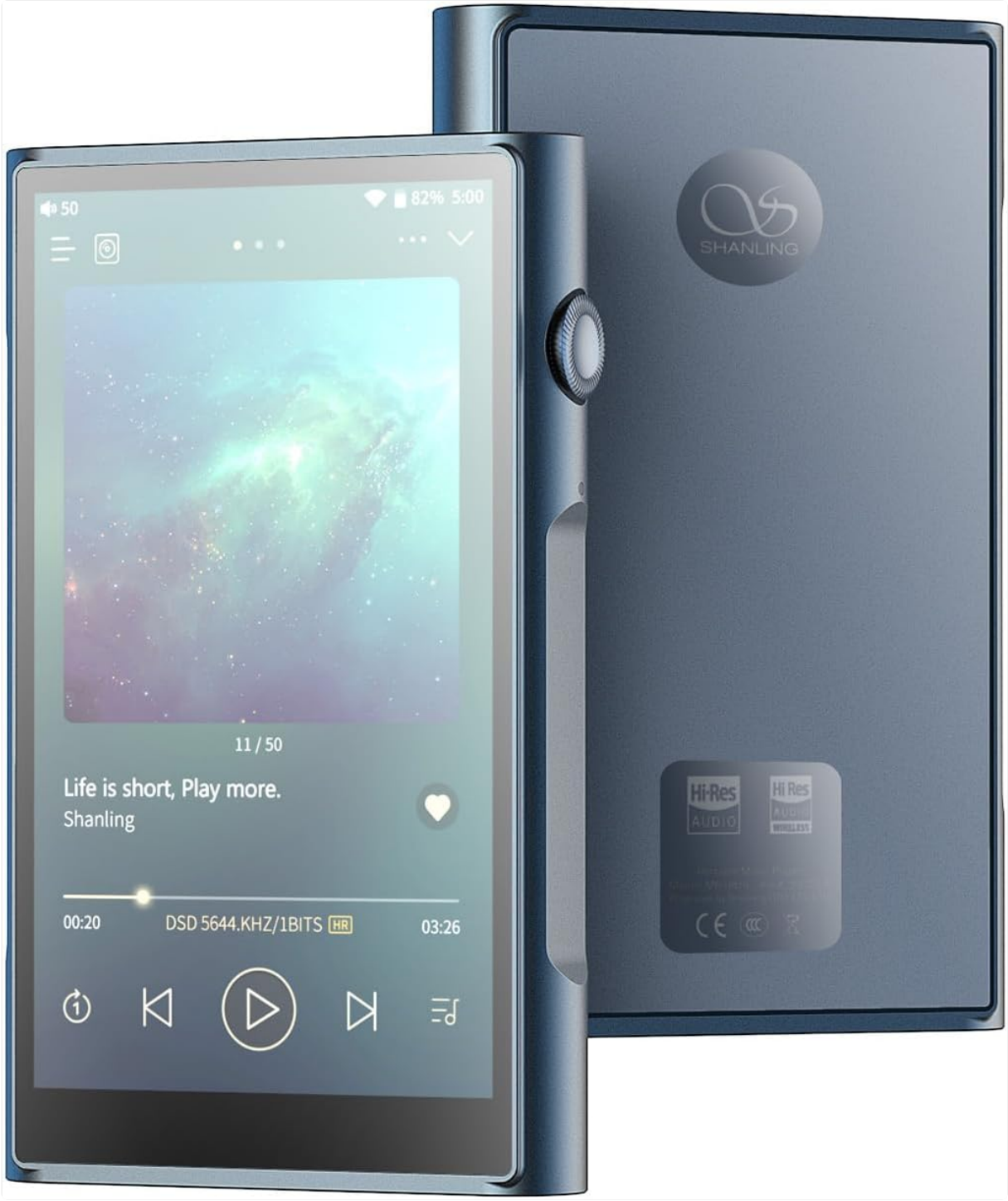

Figure 1: SHANLING M6 Ultra Digital Audio Player, showcasing its front display and rear panel with Hi-Res Audio logos.

2. Setup Guide

2.1 Initial Charging

Before first use, fully charge the M6 Ultra using the provided USB-C cable and a compatible 18W fast charger. The device is equipped with a 5650mAh battery.

2.2 Power On/Off

- To power on: Press and hold the power button located on the side until the screen illuminates.
- To power off: Press and hold the power button, then select "Power off" from the on-screen options.
- To sleep/wake: Briefly press the power button.

2.3 Inserting a MicroSD Card

The M6 Ultra supports up to 2TB MicroSD cards for expanded storage. Locate the MicroSD card slot on the side of the device. Gently insert the card until it clicks into place. To remove, press the card inward until it springs out.

Figure 2: The bottom of the M6 Ultra, highlighting the USB-C port for charging and data transfer, and the MicroSD card slot for expandable storage.

2.4 Connecting Headphones

The device features both 3.5mm single-ended and 4.4mm balanced headphone outputs. Connect your headphones to the appropriate port on the top of the device.

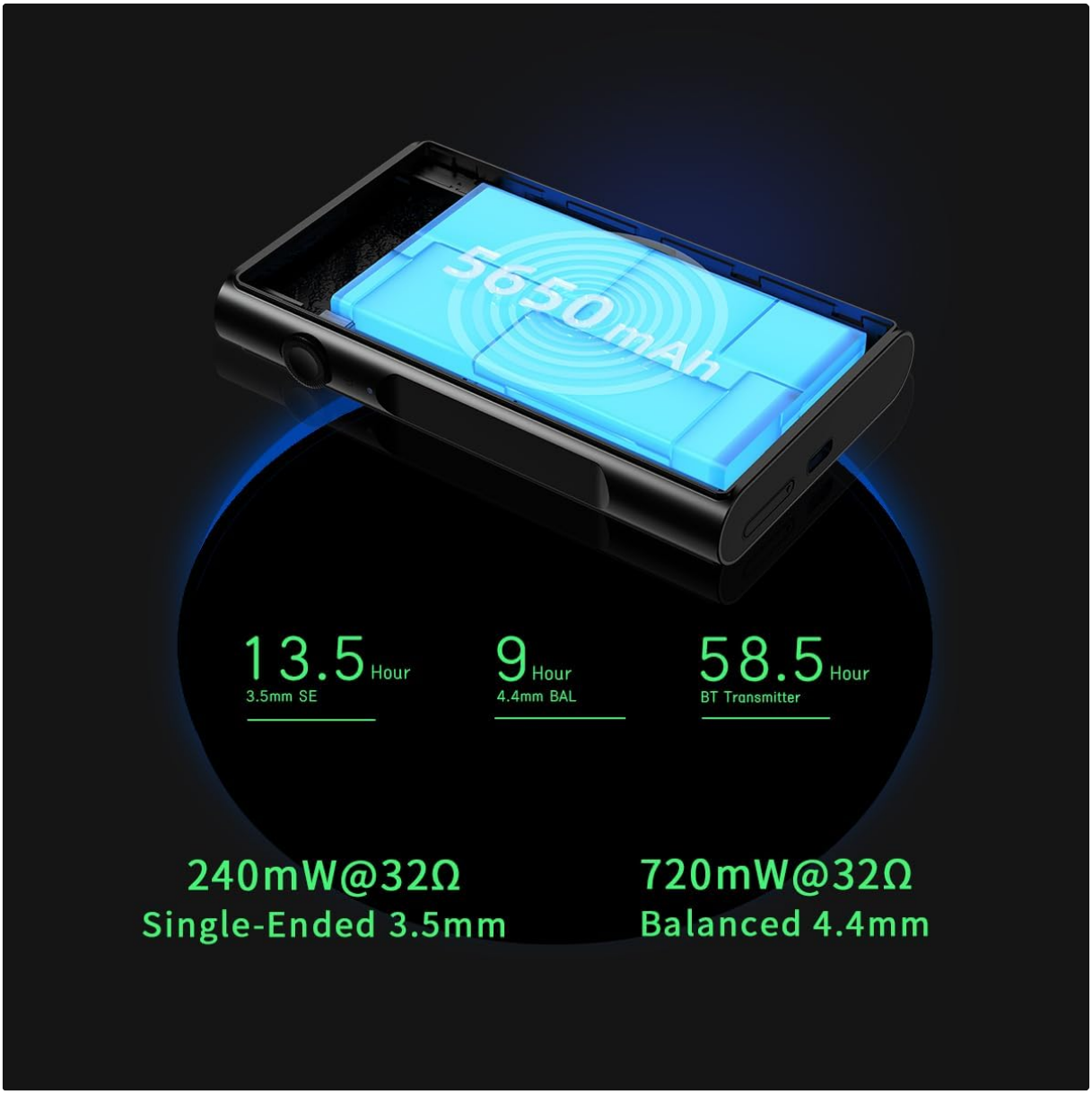

Figure 3: The top of the M6 Ultra, displaying the 3.5mm single-ended and 4.4mm balanced audio output jacks.

2.5 Wi-Fi and Bluetooth Connectivity

- **Wi-Fi:** Navigate to Settings > Network & Internet > Wi-Fi to connect to a 2.4G or 5G network.
- **Bluetooth:** Go to Settings > Connected devices > Bluetooth to pair with Bluetooth headphones or speakers. The M6 Ultra supports Bluetooth 5.0 with LDAC, LHDC, aptX HD, aptX, and SBC codecs for transmission, and LDAC, SBC for reception.

Figure 4: The M6 Ultra display showing Bluetooth 5.0 and 2.4G/5G Wi-Fi capabilities, indicating its wireless connectivity options.

3. Operating Instructions

3.1 Music Playback

Use the pre-installed music player app or download your preferred streaming apps from the Google Play Store. The 5-inch 1920*1080 LCD screen provides a clear interface for browsing and controlling your music.

Figure 5: The M6 Ultra's 5-inch high-definition LCD screen displaying music playback, highlighting its "Floating Screen Design" and touch display capabilities.

3.2 Android 10 System and AGLO

The M6 Ultra runs on an open Android 10 system, allowing installation of various applications. SHANLING's AGLO (Android Global Lossless Output) technology ensures that all audio is processed at its full quality, bypassing Android's native sample rate conversion.

3.3 Audio Settings (Gain & Digital Filters)

Access audio settings through the device's menu to adjust gain levels (High, Medium, Low) and select from 7 different digital filters to customize your listening experience.

3.4 Advanced Connectivity (DLNA, Airplay, NAS)

The M6 Ultra supports DLNA, Airplay, and NAS functions, enabling seamless streaming and access to media across your network.

3.5 USB DAC Mode

Connect the M6 Ultra to a computer via the USB-C port to use it as an external DAC (Digital-to-Analog Converter), enhancing your computer's audio output quality.

4. Maintenance

4.1 Cleaning the Device

Wipe the device with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the screen or finish.

4.2 Battery Care

- To prolong battery life, avoid fully discharging the device frequently.
- When using the device as a desktop player, consider utilizing the "Desktop Mode" feature (if available in software updates) to bypass battery charging and run directly from external power, preserving battery health.
- The device supports 18W fast charging.

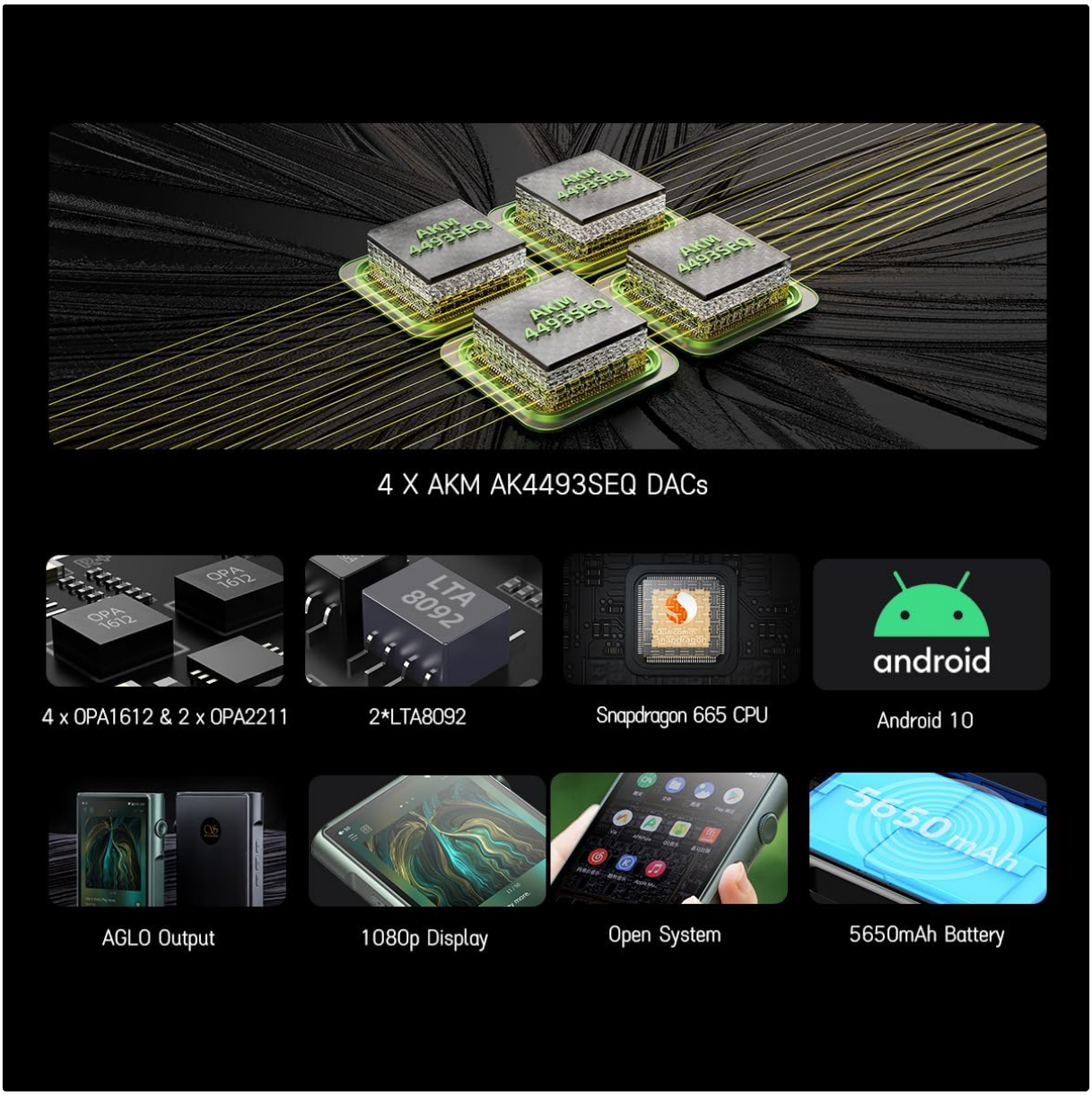

Figure 6: Visual representation of the M6 Ultra's battery capacity (5650mAh) and estimated playback times for 3.5mm single-ended, 4.4mm balanced, and Bluetooth transmission, along with output power ratings.

4.3 Software Updates

Regularly check for and install software updates to ensure optimal performance and access to new features. Updates can typically be found in the device's settings menu under "About device" or "System updates."

5. Troubleshooting

- **Device not powering on:** Ensure the device is fully charged. If the issue persists, try holding the power button for 10-15 seconds for a forced restart.
- **No sound output:** Check headphone connections, volume levels, and ensure the correct output (3.5mm or 4.4mm) is selected if applicable in software. Verify that the audio file is not corrupted.
- **Wi-Fi/Bluetooth connectivity issues:** Restart the device and your router/Bluetooth accessory. Forget and re-pair Bluetooth devices.
- **Device freezing or unresponsive:** Perform a forced restart by holding the power button for 10-15 seconds. If frequent, consider a factory reset (backup data first).
- **Poor sound quality:** Ensure you are using high-quality audio files and appropriate headphones. Experiment with different digital filters and gain settings.

6. Specifications

Feature	Detail
Size	127mm x 77mm x 18mm
Weight	263 g
Screen	5-inch 1920x1080 LCD (441PPI)
System	Open Android 10
Processor	Octa-core Snapdragon 665
RAM/ROM	4GB RAM, 64GB ROM
Expandable Storage	Up to 2TB MicroSD card
DAC Chip	4x AK4493SEQ
Supported Audio Formats	DSD (.iso, .dsf, .dff), ISO, DXD, APE, FLAC, WAV, AIFF, ALFF, DTS, MP3, MP4, WMA, AAC, OGG, ALAC, MP2, M4A, AC3, M3U, M3U8, OPUS
Max Supported Specs	768 kHz/32 bit, DSD 512, 16X MQA
Gain Compensation	High, Medium, Low
Digital Filters	7 different methods
Bluetooth Version	5.0
Bluetooth TX Codecs	LDAC, LHDC, aptX HD, aptX, SBC
Bluetooth RX Codecs	LDAC, SBC
WiFi Standard	2.4G/5G (Qualcomm WCN 3980, MIMO)
Battery Capacity	5650mAh (Lithium Ion)
Battery Life (Approx.)	3.5mm SE: 13.5 hours, 4.4mm BAL: 9 hours, Bluetooth TX: 58.8 hours
Charging	18W Fast Charging

Feature	Detail
Single Output Power	Low: 16mW@32Ω, Mid: 92mW@32Ω, High: 240mW@32Ω
Balanced Output Power	Low: 61mW@32Ω, Mid: 360mW@32Ω, High: 720mW@32Ω
THD+N	0.0005% (Both SE & BAL)
Dynamic Range	122dB (SE), 125dB (BAL)
Signal to Noise Ratio	122dB (SE), 125dB (BAL)
Output Impedance	Less than 1Ω (Both SE & BAL)

Figure 7: An internal view of the M6 Ultra's key components, including the 4x AK4493SEQ DACs, OPA1612 and OPA2211 op-amps, Snapdragon 665 CPU, and 5650mAh battery, illustrating its advanced audio architecture.

7. Warranty and Support

The SHANLING M6 Ultra comes with a **1-year maintenance service**. In case of any quality problems with the

product, replacements will be provided unconditionally within this period.
For technical consultation or after-sales service, please contact SHANLING customer support. Support is available 24 hours a day.
For further assistance, please refer to the official SHANLING website or contact your local distributor.

8. Product Videos

No official seller videos directly featuring the SHANLING M6 Ultra were found in the provided data. Videos for related products or different models are available but not included here to maintain relevance to the M6 Ultra.

Related Documents - M6 Ultra

	Shanling M3X Quick Start Guide: Features, Operation, and Troubleshooting Comprehensive guide to the Shanling M3X portable Hi-Fi music player, covering setup, operation, safety, technical specifications, and troubleshooting. Learn about its features like Qualcomm aptX HD and MQA.
	Shanling M3X Digital Audio Player: Quick Start Guide and Features Comprehensive guide to the Shanling M3X Digital Audio Player, covering safety, controls, operation, firmware updates, troubleshooting, and key technologies like Qualcomm aptX HD and MQA.
	Shanling M6 Ultra Quick Start Guide: Features, Operation, and Specifications Comprehensive quick start guide for the Shanling M6 Ultra digital audio player, covering setup, operation, features, safety instructions, troubleshooting, and technical specifications.
	Shanling M3 Ultra Quick Start Guide A comprehensive quick start guide for the Shanling M3 Ultra portable music player, covering setup, operation, firmware updates, and troubleshooting.

	Shanling M5 Ultra Quick Start Guide and User Manual Get started with your Shanling M5 Ultra portable music player. This guide covers setup, operation, safety instructions, and troubleshooting for the M5 Ultra.
	Shanling M7 Quick Start Guide: Features, Operation, and Support A comprehensive quick start guide for the Shanling M7 Digital Audio Player, covering safety instructions, device operation, navigation, charging, firmware updates, troubleshooting, and included accessories.

Documents - SHANLING – M6 Ultra

Shanling M6 Ultra Quick Start Guide: Features, Operation, and Specifications
Comprehensive quick start guide for the Shanling M6 Ultra digital audio player, covering setup, operation, features, safety instructions, troubleshooting, and technical specifications.
lang:en score:38 filesize: 1.49 M page_count: 24 document date: 2022-06-15

[pdf] User Manual Quick Start Guide Instructions Guide

M6 Ultra V1 0 FCC Administrator user manual Shenzhen Shanling Digital Technology Development Co Ltd PM6 Portable Music Player 2A7WM 2A7WMPM6 pm6

Quick Start Guide 1. 2. 3. 4. 5. 6. 7. / 8. USB 9. 10. 11. 12. CCC 13. --**M6 Ultra** : GB 8898-2011; GB/T 9254.1-2021 Pb Hg Cd Cr,VI PBB PBDE PCBA SJ/T 11364 GB/T 26572 X GB/T 26572 X RoHS 2.0 Type-C USB USB/DAC microSD Micro SD 5...

lang:en score:32 filesize: 1.62 M page_count: 25 document date: 2022-08-22

Product Name : Portable Music Player

Model No. : M6 Ultra; M5x; M5 Ultra; XM1; M3X; M3 Ultra; M7; M7 Pro; M7 Ultra; EM7; M1s; M0; M0 Pro; Q1; M6(21); M6 Pro(21); EM5;EA5 Plus; M3X; M9s; M9 Pro; M10

FCC ID : 2A7WM-PM6

All models are electrically identical , only mode no is different.

<Signature> Hunter Wong

Name: Hunter Wong

Title: Sales director

Company: Shenzhen Shanling Digital Technology Development Co.,Ltd.

[Shenzhen Shanling Portable Music Player Models and FCC ID]

Details for Shenzhen Shanling's Portable Music Player, listing all supported model numbers, the FCC ID, and a note on electrical compatibility. Includes models such as M6 Ultra, M5x, M7 Pro, and M10, manufactured by Shenzhen Shanling Digital Technology Development Co.,Ltd.

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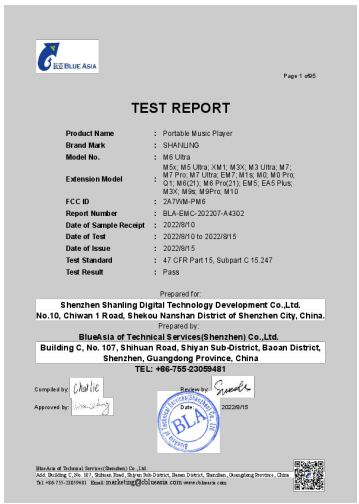
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Page 1 of95

TEST REPORT

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Model No.	:	M6 Ultra
Extension Model	:	M5x; M5 Ultra; XM1; M3X; M3 Ultra; M7; M7 Pro; M7 Ultra; EM7; M1s; M0; M0 Pro; Q1; M6(21); M6 Pro(21); EM5; EA5 Plus; M3X; M9s; M9Pro; M10
FCC ID	:	2A7WM-PM6
Report Number	:	BLA-EMC-202207-A4302
Date of Sample Receipt	:	2022/8/10
Date of Test	:	2022/8/10 to 2022/8/15
Date of Issue	:	2022/8/15
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

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[pdf] Test Report

EMC COMPLIANCE TEST REPORT Simon DSS Shenzhen Shanling Digital Technology Development Co Ltd PM6 Portable Music Player 2A7WM 2A7WMPM6 pm6

Page 1 of95 TEST REPORT Product Name Brand Mark Model No. Extension Model FCC ID Report Number Date of Sample Receipt Date of Test Date of Issue Test Standard Test Result : Portable Music Player : SHANLING : **M6 Ultra** M5x; M5 Ultra; XM1; M3X; M3 Ultra; M7; : M7 Pro; M7 Ultra; EM7; M1s; M0; M0...

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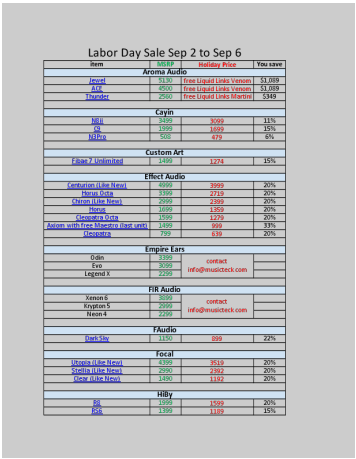
Labor Day Sale Sep 2 to Sep 6

Item	MSRP	Holiday Price	You save
Aroma Audio			
Jewel	5130	free Liquid Links Venom	$1,089
ACE	4500	free Liquid Links Venom	$1,089
Thunder	2560	free Liquid Links Martini	$349
Cayin			
N8ii	3499	3099	11%
C9	1999	1699	15%
N3Pro	508	479	6%
Custom Art			
Fibae 7 Unlimited	1499	1274	15%
Effect Audio			
Centurion (Like New)	4999	3999	20%
Hexas Octa	3399	2719	20%
Chrom (Like New)	2999	2399	20%
Horus	1699	1359	20%
Cleopatra Octa	1599	1279	20%
Aeiom with free Minentro (last unit)	1499	999	33%
Cleopatra	799	639	20%
Empire Ears			
Odin	3399	contact info@musicteck.com	
Evo	3099		
Legend X	2299		
FIR Audio			
Xenon 6	3899	contact info@musicteck.com	
Krypton 5	2099		
Neon 4	2299		
fAudio			
Dark Sky	1150	899	22%
Focal			
Utopia (Like New)	4399	3519	20%
Stella (Like New)	2990	2392	20%
Clear (Like New)	1490	1192	20%
Hiby			
R6	1999	1599	20%
R5S	1399	1189	15%

[pdf] Price List

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Labor Day Sale Sep 2 to Sep 6 item Jewel ACE Thunder MSRP Holiday Price Aroma Audio You save 5 ... 944 1470 559 707 400 Peacock Apollo SendyAudio 1490 1192 499 449 M30 M9 EM7 M8 Like New M7 **M6 Ultra** M3X ME500 Shine UA5 Shanling 3899 2799 2099 1659 1249 919 369 349 235 3119 free UM MEXT 1...

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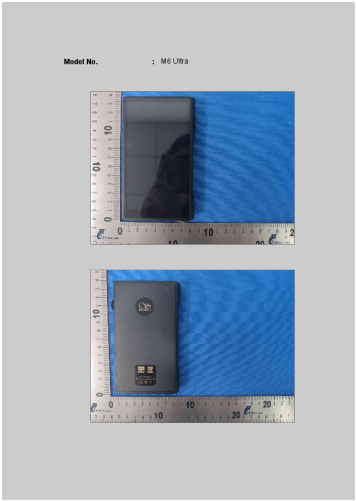
Model No. : M6 Ultra

[pdf] Product Photos

Administrator EXTERNAL PHOTO Shenzhen Shanling Digital Technology Development Co Ltd PM6 Portable Music Player 2A7WM 2A7WMPM6 pm6

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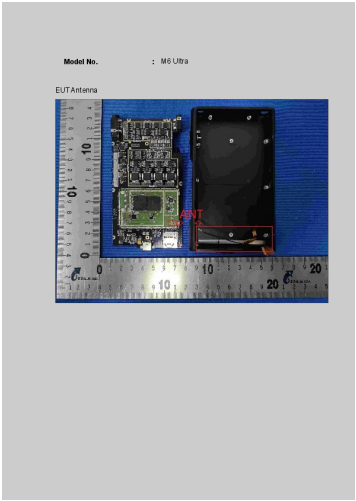
Model No. : M6 Ultra

EUT Antenna

[pdf] Product Photos Teardown

Administrator internal photo Shenzhen Shanling Digital Technology Development Co Ltd PM6 Portable Music Player 2A7WM 2A7WMPM6 pm6

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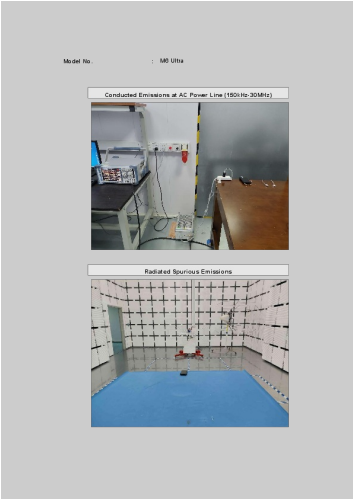

[pdf] Product Photos

xb21cn SETUP PHOTO Shenzhen Shanling Digital Technology Development Co Ltd PM6 Portable Music Player 2A7WM 2A7WMPM6 pm6

Model No. : **M6 Ultra** Conducted Emissions at AC Power Line 150kHz-30MHz Radiated Spurious Emissions ...

lang:en score:11 filesize: 292.24 K page_count: 2 document date: 2022-08-17