

iBasso DX320

iBasso Audio DX320 Digital Audio Player User Manual

Model: DX320 | Brand: iBasso

INTRODUCTION

The iBasso Audio DX320 is a high-fidelity digital audio player designed for an exceptional listening experience. It features a dual-OS system (Android 11 and Mango OS), a powerful Snapdragon 660 processor, and a unique dual-battery design for optimized power delivery to both digital and analog sections. The DX320 also supports interchangeable amp cards, allowing users to customize their sound signature.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DX320 digital audio player.



Image: Front and back view of the iBasso Audio DX320 Digital Audio Player, showcasing its sleek design and display.

KEY FEATURES

- **ROHM BD34301EKV DAC Chip:** Equipped with a high-performance DAC chip from ROHM's "MUS-IC" series, designed for exceptional spatial presence, silence, and scale in audio reproduction.
- **FPGA-Master Technology:** Utilizes a Field Programmable Gate Array to prioritize audio processing, ensuring stable operation and minimal jitter for a clean audio system.
- **Patented Dual Battery Design:** Features separate power supplies for the digital and analog sections, preventing noise interference and delivering clean, stable power to the amplifier section.
- **Powerful Snapdragon 660 Processor:** An 8-core, 14nm Snapdragon 660 SoC (up to 2.2GHz) provides top-tier performance for smooth operation, complemented by 6GB RAM and 128GB internal storage.
- **Interchangeable Amp Card Design:** Allows users to switch amp cards to customize the sound signature. The standard AMP11 MK2s card offers 3.5mm single-ended, 2.5mm balanced, and 4.4mm balanced outputs.
- **High-Resolution Display:** Features a large 6.5-inch, 2340 x 1080 full-screen display for a visually immersive experience, with an LED indicator for playback rate and charging status.
- **Dual OS System (Android 11 & Mango OS):** Runs on Android 11 for broad app compatibility with system-level SRC bypass for optimal audio quality, and a dedicated Linux-based Mango OS for pure music playback, minimizing electromagnetic interference and system resource usage.

1. Initial Charging

Before first use, fully charge the DX320. Connect the provided USB-C cable to the device's USB-C port and the other end to a compatible USB power adapter (not included). The LED indicator on the top of the screen will show charging status.

2. Powering 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.
- For a quick restart, select "Restart" from the power options.

3. Inserting a MicroSD Card

The DX320 supports microSD cards for expanded storage. Locate the microSD card slot on the device, insert the card gently until it clicks into place. Ensure the device is powered off before inserting or removing the card.

4. Connecting Headphones

The DX320 features 3.5mm single-ended, 2.5mm balanced, and 4.4mm balanced headphone outputs. Connect your headphones to the appropriate port. Ensure the headphone plug is fully inserted.



Image: The iBasso Audio DX320 with its interchangeable amp card partially removed, highlighting the various headphone output jacks (3.5mm, 2.5mm, 4.4mm).

OPERATING

1. Navigating the User Interface

The DX320 features a 6.5-inch touchscreen display. Swipe, tap, and pinch to navigate through menus and applications, similar to a smartphone.



Image: A collage showing the user interfaces of both Android 11 and Mango OS on the iBasso Audio DX320, demonstrating the dual operating system capability.

2. Switching Between Android 11 and Mango OS

The DX320 offers a dual-OS system. You can switch between the full-featured Android 11 for app compatibility and the streamlined Mango OS for pure audio playback. Refer to the on-screen prompts or system settings for switching options.

3. Playing Music

- Android Mode:** Use pre-installed music players or download your preferred audio applications from the app store. The system bypasses Android's SRC (Sample Rate Converter) for optimal sound quality.
- Mango OS Mode:** This OS is optimized solely for music playback. It minimizes background processes and disables wireless functions (Bluetooth, Wi-Fi) to reduce electromagnetic interference, ensuring the purest audio signal.



Image: The iBasso Audio DX320 shown from a side angle, displaying the Mango Player interface during music playback.

4. Volume Control

Adjust the volume using the physical volume wheel on the side of the device. Rotate clockwise to increase volume and counter-clockwise to decrease.

5. Wireless Connectivity (Android Mode)

- **Wi-Fi:** Connect to Wi-Fi networks via the Android settings menu to access streaming services, download apps, or transfer files.
- **Bluetooth:** Pair with Bluetooth headphones or speakers through the Bluetooth settings. The DX320 supports Bluetooth 5.0.

MAINTENANCE

1. Cleaning

Use a soft, dry, lint-free cloth to clean the device's screen and body. Avoid using abrasive cleaners, solvents, or aerosol sprays that may damage the surface.

2. Battery Care

- Avoid fully discharging the battery frequently.
- Do not expose the device to extreme temperatures (hot or cold), as this can affect battery life and performance.
- If storing the device for an extended period, charge it to about 50% before storage.

3. Software Updates

Periodically check for software updates in the Android settings menu. Updates can improve performance, add new features, and fix bugs.

4. Amp Card Handling

When changing amp cards, handle them carefully by the edges. Avoid touching the electrical contacts. Ensure the device is powered off before attempting to swap amp cards.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; software crash.	Charge the device for at least 30 minutes. Press and hold the power button for 10-15 seconds to force restart.
No sound output.	Volume too low; headphones not connected properly; incorrect output selected; corrupted audio file.	Increase volume. Re-insert headphone plug. Check audio output settings. Try a different audio file.
Device freezes or lags.	Too many apps running; low storage; software issue.	Close background applications. Free up storage space. Restart the device. Check for software updates.
Wi-Fi/Bluetooth connectivity issues.	Wireless functions disabled (in Mango OS); signal interference; incorrect settings.	Ensure you are in Android OS. Restart Wi-Fi/Bluetooth. Move closer to the router/device. Check network settings.
Poor sound quality (noise, distortion).	Interference; faulty headphones/cable; high impedance headphones without sufficient power.	Ensure no strong electromagnetic interference sources nearby. Try different headphones/cable. Ensure amp card is properly seated.

SPECIFICATIONS

Feature	Detail
Model Name	DX320
Brand	iBasso
Display Size	6.5 inches
Display Resolution	2340 x 1080 pixels
Operating System	Android 11, Mango OS (Linux-based)
Processor	Qualcomm Snapdragon 660 (8-core)
RAM	6 GB
Internal Storage	128 GB

Feature	Detail
Expandable Storage	microSD card
DAC Chip	ROHM BD34301EKV
Headphone Outputs	3.5mm Single-Ended, 2.5mm Balanced, 4.4mm Balanced
Max Output Voltage (Balanced)	7.1 Vrms
Max Output Level (32Ω load)	1200 mW
Signal-to-Noise Ratio (S/N)	125 dB
Dynamic Range	-125 dB
THD+N	-112 dB
Continuous Playback Time	Approx. 10 hours
Wireless Connectivity	Wi-Fi, Bluetooth 5.0
Dimensions (L x W x H)	162 x 77 x 17 mm
Weight	205 g



S/N	ダイナミックレンジ	最大出力電圧
125dB	125dB	7.1Vrms

THD+N	最大出力レベル
-112dB	1200mW@32Ω

Image: A visual representation of the DX320's flagship sound performance metrics, including S/N ratio, Dynamic Range, THD+N, and maximum output level.

WARRANTY AND SUPPORT

Warranty Information

Specific warranty terms and conditions may vary by region and retailer. Please refer to the warranty card included with your product or contact your point of purchase for detailed information regarding warranty coverage and duration.

Customer Support

For technical assistance, product inquiries, or service requests, please visit the official iBasso Audio website or contact their authorized distributors in your region. Keep your purchase receipt and product serial number handy when seeking support.

Official iBasso Audio Website: www.ibasso.com



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Burn-in Cable USB-C cable Screen Protector Qu...

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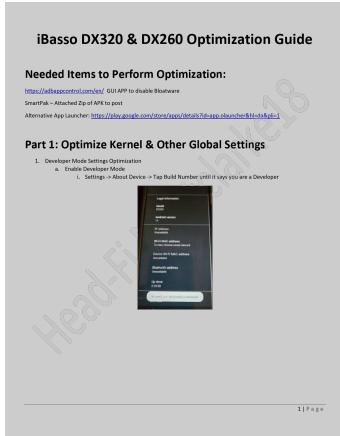
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iBasso DX320 DX260 Optimization Guide Needed Items to Perform Optimization:

<https://adbappcontrol.com/en/> GUI APP to disable Bloatware

SmartPak – Attached Zip of APK to post

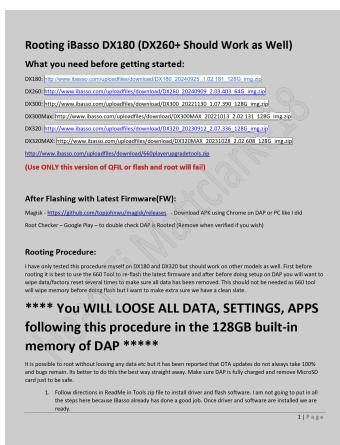
Alternative App Launcher: <https://play.google.com/store/apps/details?id=app.olauncher&hl=da&pli=1>

Part 1: Optimize Kernel & Other Global Settings

1. Developer Mode Settings Optimization
 - a. Enable Developer Mode
 - i. Settings -> About Device -> Tap Build Number until it says you are a Developer



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Rooting iBasso DX180 DX260 Should Work as Well What you need before getting started:

DX180: http://www.ibasso.com/uploadfiles/download/DX300MAX_20221013_2.02.131_128G_img.zip

DX320:

http://www.ibasso.com/uploadfiles/download/DX320_20230912_2.07.336_128G_img.zip

DX320MAX: http://www.ibasso.com/uploadfiles/download/DX320MAX_20231003_2.02.609_128G_img.zip

http://www.ibasso.com/uploadfiles/download/DX300MAX_20221013_2.02.131_128G_img.zip

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Ken Dan Clark Audio EXPANSE Planar Magnetic Headphone Open Horizons cdn head fi org a 11861343 ||| Dan Clark Audio EXPANSE Planar Magnetic Headphone Open Horizons In July, at the Texas Audio Round ... r Technologies A/V Equi-Core 1000, and Black Dragon Cables. I burned in the EXPANSE using an iBasso **DX320** DAP running Qobuz. I began my listening tests with Lisa Batiashvili violin and Giorgi Gigash...

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