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> iBasso DX220 Digital Audio Player User Manual

iBasso DX220

iBasso DX220 Digital Audio Player User Manual

Model: DX220

1. PRODUCT OVERVIEW

The iBasso DX220 is a high-resolution digital audio player designed for audiophiles. It features a 5.0-inch 1080P LCD display, dual ES9028PRO DAC chips, an 8-core CPU, and two-way Bluetooth 5.0 with support for LDAC and aptX. The device supports MQA audio files and offers a professional parametric equalizer for detailed sound customization.





Figure 1: Front and back view of the iBasso DX220 Digital Audio Player.

Key Features:

- **Dual ES9028PRO DAC Chips:** Ensures high-fidelity audio reproduction with low distortion.
- **5.0" 1080P Retina Screen:** Provides a clear and vibrant display for album art and user interface.
- **Two-Way Bluetooth 5.0:** Supports LDAC and aptX for high-quality wireless audio transmission and reception.
- **MQA Support:** Enables playback of Master Quality Authenticated audio files.
- **Professional Parametric EQ:** Offers 8 types of filters in 6 segments for precise sound tuning.
- **Quick Charging:** Supports QC3.0, PD2.0, and MTK PE Plus protocols, charging up to 70% in one hour.
- **Replaceable Amp Modules:** Allows for customization of the audio output stage.
- **Dual Operating Systems:** Features Android OS and a dedicated Mango OS for optimized audio playback.

2. SETUP

2.1 Unboxing and Included Components

Carefully unpack your iBasso DX220. The package should contain the following items:

- iBasso DX220 Digital Audio Player
- USB Cable
- Charging Cable
- User Manual (this document)

2.2 Initial Charging

Before first use, fully charge the device. Connect the charging cable to the DX220 and a compatible USB power adapter. The DX220 supports QC3.0, PD2.0, and MTK PE Plus quick charging protocols, allowing for a rapid charge up to 70% in approximately one hour. A full charge ensures optimal battery performance.



Figure 2: Illustration of the DX220 charging process, highlighting quick charge capabilities.

2.3 Powering On/Off

- **To Power On:** Press and hold the power button located on the side of the device until the screen illuminates.
- **To Power Off:** Press and hold the power button until a power-off menu appears on the screen. Select "Power Off" to shut down the device. A short press will turn the screen on or off.

2.4 MicroSD Card Installation

The DX220 supports Micro SDXC cards for expanded storage. Locate the MicroSD card slot on the side of the device. Insert the MicroSD card gently until it clicks into place. To remove, push the card in slightly until it springs out.







Figure 3: Side view of the DX220 showing the MicroSD card slot.

2.5 Firmware Updates

Periodically check the official iBasso website for firmware updates. Updates can improve performance, add features, and fix bugs. Follow the instructions provided with the firmware update package carefully to avoid damaging the device.

3. OPERATION

3.1 User Interface Navigation

The DX220 operates on a customized Android OS and features the Mango audio player APP. The 5.0-inch 1080P LCD provides a responsive touch interface. Navigate through menus and settings by swiping and tapping the screen.

45% R-10 Custom

100 100%



35/100



MP3 16bit 44.1kHz 320kbps

1:30

The Sound Of White

3:50



Unknown
Unknown



Figure 4: The DX220 screen showing the music playback interface.

3.2 Music Playback

The DX220 supports a wide range of audio formats including AAC, AIFF, ALAC, APE, DSF, FLAC, MP3, OGG, WAV, and WMA. Transfer your music files to the internal storage or an inserted MicroSD card. Open the Mango Player application to browse and play your music library.



Figure 5: The DX220 screen displaying the Mango Player application.

3.3 Bluetooth Connectivity

The DX220 features two-way Bluetooth 5.0. This allows it to transmit audio to Bluetooth headphones/speakers (output) and receive audio from other devices (input). It supports high-quality codecs like LDAC and aptX.

- **To Pair:** Go to Bluetooth settings, enable Bluetooth, and select your desired device from the list.

3.4 Parametric EQ

Access the professional parametric equalizer within the audio settings. This feature allows for precise sound customization with 8 types of filters across 6 segments. Each filter's central frequency, gain, and quality factor can be adjusted to tailor the sound to your preferences.

3.5 USB DAC Functionality

The DX220 can function as a standalone USB DAC (Digital-to-Analog Converter) when connected to a computer. This allows your computer's audio to be processed by the DX220's high-quality DAC chips, improving sound output to connected headphones or speakers.

A Professional USB-DAC A Hi-End DAC Competitor

We have added femtosecond oscillators to the CPU and XMOS. With a total of 5 femtosecond oscillators, the DX220 achieves full femtosecond audio system, providing more professional USB DAC function. The USB DAC supports PCM up to 32Bit/384kHz, native DSD up to 512x. With such a powerful decoding capability, the DX220's USB DAC stands alone as one of the best portable USB DACs on the market, and able to compete with any Hi-End DAC.

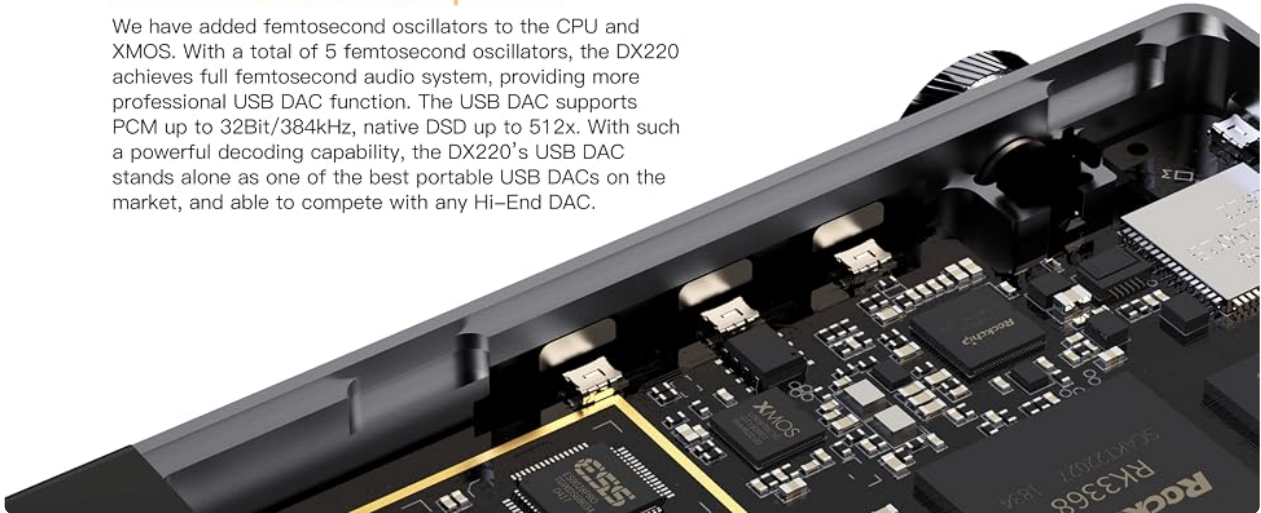


Figure 6: The DX220 functioning as a USB DAC with a computer setup.

3.6 MQA Playback

The DX220 includes MQA technology, enabling it to fully unfold and play MQA audio files and streams. This allows for playback of the original master recording quality.

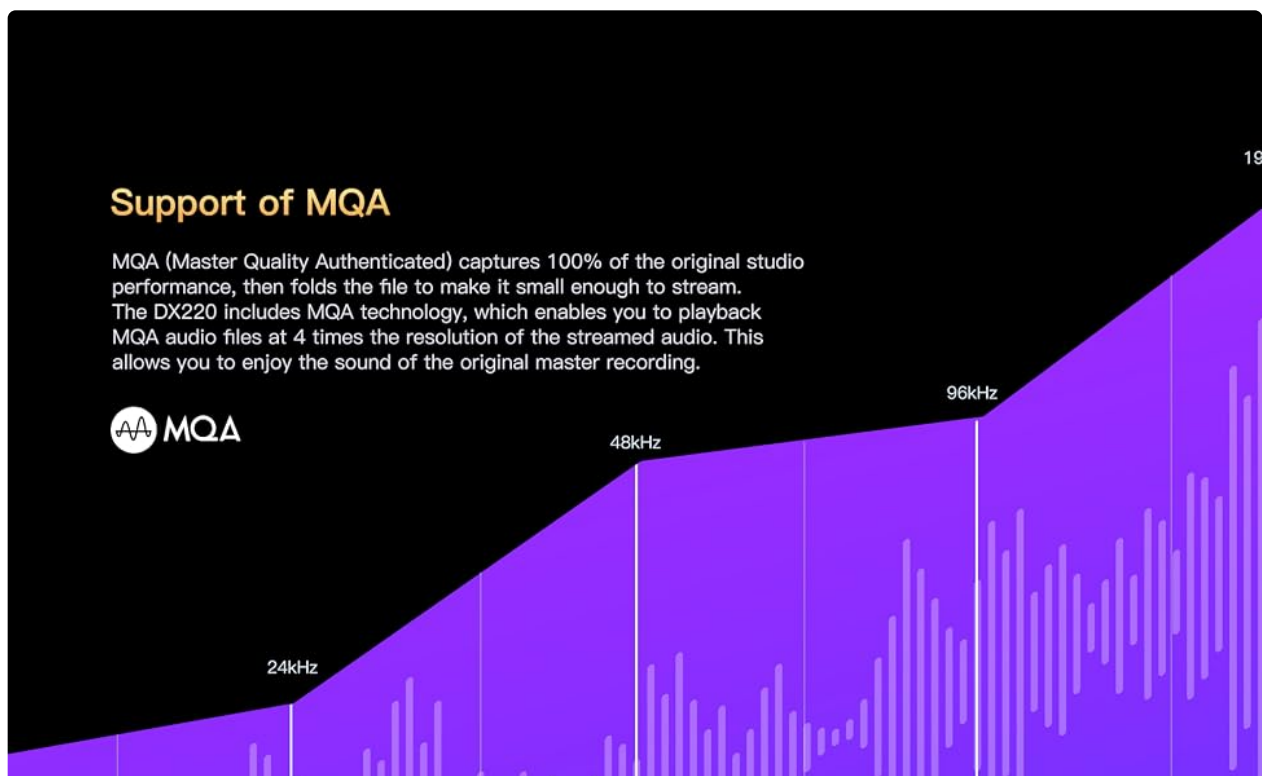


Figure 7: The DX220 displaying MQA support, compatible with services like Tidal Masters.

4. MAINTENANCE

4.1 Cleaning

Use a soft, dry, lint-free cloth to clean the device's screen and body. Avoid using abrasive cleaners, solvents, or aerosol sprays, as these can damage the finish or internal components.

4.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, ensure it has a partial charge (around 50%). Operating the device in extreme temperatures can also affect battery longevity. Dimming the display brightness significantly extends battery life during use.

4.3 Storage

Store the DX220 in a cool, dry place away from direct sunlight and extreme temperatures. Protect it from dust and moisture. Using a protective case is recommended to prevent scratches and minor impacts.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your iBasso DX220.

5.1 Device Not Powering On

- Ensure the device is sufficiently charged. Connect it to the charging cable and a power source for at least 30 minutes.
- Try a different charging cable or power adapter.

5.2 Rapid Battery Drain

- The display is a significant power consumer. Reduce screen brightness or set a shorter screen timeout.
- Close unused applications running in the background.
- Disable Bluetooth or Wi-Fi when not in use.
- Ensure the device is not running demanding processes or applications.

5.3 Sound Quality Issues / "Bright" Sound

- Some users report that the device benefits from a "burn-in" period of approximately 200 hours for optimal sound.
- Check your equalizer settings. Reset to default or adjust the parametric EQ.
- Ensure your headphones/earphones are properly connected and functioning correctly.
- Verify the audio file quality.

5.4 Device Overheating

- It is normal for the device to generate some heat during operation, especially during charging or intensive use, as the aluminum casing acts as a heatsink.
- If the device becomes excessively hot, discontinue use and allow it to cool down.
- Avoid using or charging the device in direct sunlight or enclosed spaces.

5.5 Application Compatibility

The Android OS on the DX220 is optimized for the Mango player. Loading other Android applications designed

for smartphones may result in compatibility issues or instability. It is recommended to use applications specifically designed or verified for digital audio players.

6. SPECIFICATIONS

Feature	Specification
Brand	iBasso
Model Name	DX220
Screen Size	5 Inches (1080P LCD)
Memory Storage Capacity	64 GB (Internal)
Connectivity Technology	Bluetooth 5.0 (Two-Way), USB
Supported Media Type	Micro SDXC
Supported Audio Standards	AAC, AIFF, ALAC, APE, DSF, FLAC, MP3, OGG, WAV, WMA, MQA
DAC Chips	Dual ES9028PRO
CPU	8-core
Battery Capacity	4400mAh
Item Weight	8.9 Ounces
Color	Titanium

7. WARRANTY INFORMATION

The iBasso DX220 Digital Audio Player is covered by a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official iBasso website for detailed terms and conditions regarding warranty coverage, duration, and service procedures. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your iBasso DX220, please visit the official iBasso website or contact their customer service department. Contact information can typically be found on the manufacturer's website or in your product documentation.

Official iBasso Website: [iBasso Audio Store](#)