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Avantree DG60

Avantree DG60 Long Range Bluetooth 5.0 USB Audio Adapter

User Manual

1. INTRODUCTION

The Avantree DG60 is a long-range Bluetooth 5.0 USB audio adapter designed to add Bluetooth audio streaming capabilities to your PC, laptop, Mac, PS4, PS5, or Linux system. It enables wireless audio transmission to Bluetooth headphones or speakers, supporting high-fidelity sound and aptX Low Latency for an optimal audio-visual experience. This adapter functions as a USB sound card, requiring no additional drivers for most operating systems.



Figure 1: Avantree DG60 Long Range Bluetooth 5.0 USB Audio Adapter.

2. WHAT'S IN THE BOX

- Avantree DG60 Wireless USB Audio Transmitter

- PC USB extending cable
- Quick user guide



Figure 2: Package contents of the Avantree DG60.

3. KEY FEATURES

- **Bluetooth Streaming:** Adds Bluetooth sound capabilities to PC, laptop, Mac, PS4, or Switch for audio streaming to headphones or speakers. (Note: Audio only, not for mouse, keyboards, or game controllers. Bluetooth connection is via the DG60 acting as a soundcard, not your computer.)
- **Bluetooth 5.0 Rich Stereo Sound:** Features the CSR8675 chip for high-fidelity stereo sound, supporting lossless audio.
- **Extended Long Range:** Achieves a range of up to 164' (50m) in open line-of-sight conditions and up to 50-70' indoors. (Note: Operation range can be affected by physical obstructions and wireless interference.)
- **Easy to Use (Plug & Play):** No driver download required. Simply plug in the transmitter, turn on the connecting device, and they will auto-connect.
- **No Lip-Sync Delay:** Supports aptX Low Latency codec to eliminate audio-visual lag, ideal for watching videos/movies. For best results, use with aptX Low Latency supporting headphones/speakers.
- **Limitations:** Cannot Bluetooth-enable TVs, wired speakers, or car stereo systems. Not compatible with keyboard/mouse, mobile phones, game controllers, printers, projectors, and other BLE (Bluetooth Low Energy) devices. Supports voice OR music single channel only for non-FastStream (FS) BT headphones.



Compatible Devices



Non-compatible Devices



Figure 3: Compatible and non-compatible devices for the DG60.

No lip-sync delay



Figure 4: DG60 acting as a USB sound card, requiring no drivers.

No driver needed

DG60 acts as a USB sound card so no Bluetooth icon appears in the taskbar.



Figure 5: Seamless audio-visual synchronization with DG60.

Extended long range

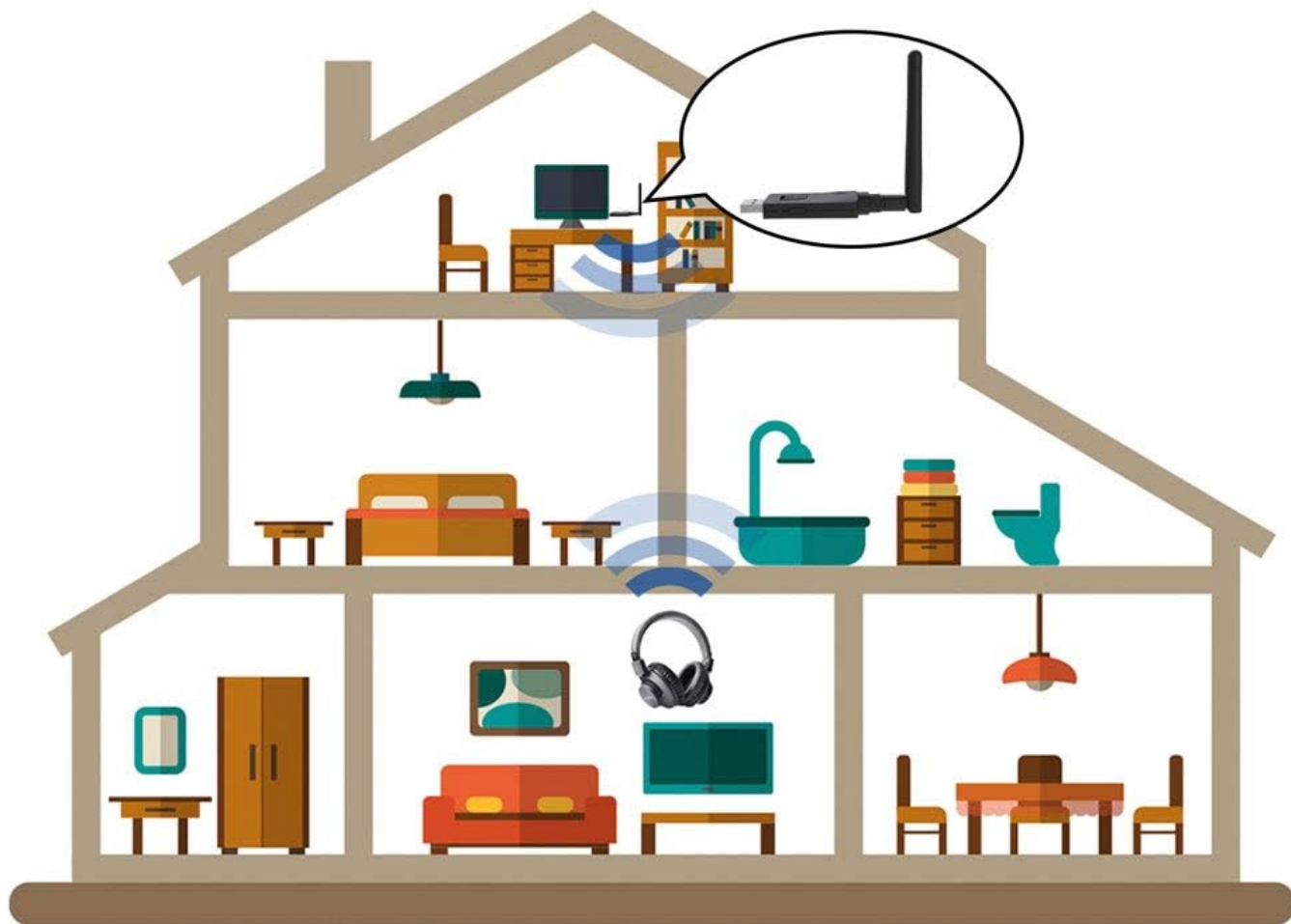


Figure 6: Extended long range capability of the DG60.

Rich Stereo Sound



Figure 7: Enjoying rich stereo sound with the DG60.

4. SETUP GUIDE

4.1 Initial Connection

1. Plug the Avantree DG60 into an available USB port on your PC, laptop, Mac, PS4, PS5, or Linux device.
2. The DG60 will be recognized as a USB sound card/USB speaker by your system. No Bluetooth icon will appear on the taskbar.
3. Ensure your Bluetooth headphones or speakers are in pairing mode.
4. Press the multi-function button on the DG60 to initiate pairing. The LED indicator will flash blue and white.
5. Once paired, the LED will turn solid white (for aptX HD) or solid blue (for other codecs).

4.2 Audio Output Selection

After connecting the DG60, you may need to select it as the default audio output device in your system settings.

- **Windows:** Go to Sound Settings > Playback tab, and select "Avantree DG60" as the default device.
- **Mac:** Go to System Preferences > Sound > Output, and select "Avantree DG60".

- **PS4/PS5:** Go to Settings > Devices > Audio Devices > Output Device, and select "Avantree DG60".

5. OPERATING INSTRUCTIONS

5.1 Pairing with Devices

The DG60 automatically attempts to reconnect to the last paired device. To pair with a new device:

1. Ensure the DG60 is plugged into your host device (PC, console, etc.).
2. Put your Bluetooth headphones or speakers into pairing mode (refer to their respective manuals).
3. Press and hold the multi-function button on the DG60 for 2 seconds until the LED flashes blue and white alternately.
4. Place the DG60 and your audio device close to each other. They should pair automatically within a few seconds.
5. Once connected, the LED on the DG60 will indicate the active audio codec:
 - Solid White: aptX HD
 - Solid Blue: aptX, aptX-LL, FastStream, SBC

5.2 Using with Gaming Consoles (PS4/PS5)

The DG60 is ideal for gaming, especially with FastStream for simultaneous chat and background music (BGM).

- Plug the DG60 into an available USB port on your PS4 or PS5.
- Navigate to the console's audio settings and select "Avantree DG60" as the audio output device.
- Pair your FastStream-compatible headphones with the DG60 as described in Section 5.1.



Figure 8: DG60 in use with a gaming console.

6. MAINTENANCE

The Avantree DG60 requires minimal maintenance. Keep the device clean and dry. Avoid exposing it to extreme temperatures or direct sunlight. Store it in a cool, dry place when not in use.

7. TROUBLESHOOTING

7.1 No Sound or Intermittent Audio

- **Check Audio Output:** Ensure "Avantree DG60" is selected as the default audio output device in your system's sound settings (refer to Section 4.2).
- **Re-pair Devices:** Disconnect and re-pair your Bluetooth headphones/speakers with the DG60.
- **Proximity:** Ensure the DG60 and your audio device are within range and not obstructed by physical barriers.
- **Interference:** Operation range can be affected by wireless interference from other devices (e.g., Wi-Fi routers, microwaves). Try moving the DG60 or your audio device to a different location.

- **Sennheiser Headphones Popping Noise:** Certain Sennheiser models may experience popping with aptX low latency. This is a known chipset issue and may require a software upgrade for the headphones or transmitter.

7.2 DG60 Not Recognized by PC

- **USB Port:** Try plugging the DG60 into a different USB port on your computer.
- **USB Extension Cable:** If using the extension cable, ensure it is securely connected. Try connecting the DG60 directly to the PC's USB port to rule out cable issues.
- **Driver Installation:** While the DG60 is plug-and-play, ensure your operating system is up to date.

7.3 Lip-Sync Delay

- **aptX Low Latency:** For minimal delay, ensure both the DG60 and your Bluetooth headphones/speakers support the aptX Low Latency codec.
- **Non-aptX-LL Devices:** Using non-aptX Low Latency devices will result in an audio delay of 70-200ms, which may not be ideal for watching TV/movies.

8. SPECIFICATIONS

Feature	Specification
Model Number	BTDG-60-BLK-V1
Bluetooth Version	5.0
Bluetooth Profile	A2DP, HFP, HSP, AVRCP
Audio Codec	aptX HD, aptX-LL, FastStream, aptX, SBC
Operating Range	Up to 50 meters (164 feet) in open area without obstruction
Product Dimensions	3.78 x 3.46 x 0.91 inches
Item Weight	0.8 ounces
Hardware Interface	Bluetooth 5, USB
Data Transfer Rate	3 Megabytes Per Second
UPC	6945624902825

9. WARRANTY AND SUPPORT

Avantree products typically come with a manufacturer's warranty. For detailed warranty information, product support, FAQs, and video tutorials, please visit the official Avantree support website or contact their customer service.

- **Online Support:** support.avantree.com
- **Email Support:** support@avantree.com
- **Chat Support:** www.avantree.com

For Proposition 65 Warning information, please refer to the product packaging or official Avantree resources.