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***iOS 1.16 and above is sufficient to establish a Bluetooth connection.**

***Supports hearing aids that use bi-directional streaming**

- iPhone 11 or later with iOS 15.2 or later
- iPad Pro 12.9-inch (4th generation) or later with iPadOS 15.2 or later
- iPad Pro 11-inch (2nd generation) or later with iPadOS 15.2 or later
- iPad Air (4th generation) or later with iPadOS 15.2 or later
- iPad mini (6th generation) or later with iPadOS 15.2 or later
- MacBook Pro introduced in 2021 or later with macOS Sonoma 14 or later
- MacBook Air from 2022 or later with macOS Sonoma 14 or later
- iMac released in 2023 or later with macOS Sonoma 14 or later
- Mac mini with macOS Sonoma 14 or later, released in 2023 or later
- Mac Studio with macOS Sonoma 14 or later, released in 2022 or later
- Mac Pro released in 2023 or later with macOS Sonoma 14 or later
- Apple Vision Pro with visionOS 1 or later

***Android 11 onwards is sufficient for Bluetooth connectivity.**

***There is a requirement for ASHA for Android model phones to be able to streaming. ASHA for Android models;**

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- Samsung Galaxy Tab S9 Ultra
- Samsung Galaxy Tab S9+
- Samsung Galaxy Tab S7
- Samsung Galaxy Tab S7+ (tablets)
- Samsung Galaxy Z Flip 5 (SM-F731B)
- Samsung Galaxy Z Fold 5 (SM-F946B)
- Samsung Galaxy Z Flip 4 (SM-F721B)
- Samsung Galaxy Z Fold 4 (SM-F936B)
- Samsung Galaxy Z Fold 3
- Samsung Galaxy Z Fold 2
- Samsung Galaxy A71 (SM-A715F)
- Samsung Galaxy A72 (SM-A725F)
- Samsung Galaxy A55
- Samsung Galaxy A54
- Samsung Galaxy A53
- Samsung Galaxy A52 (SM-A525F)
- Samsung Galaxy A51 (SM-A515F)
- Samsung Galaxy A21s (SM-A217F)
- Samsung Galaxy S23 (SM-S911B/DS)
- Samsung Galaxy S23 Ultra (SM-S918B/DS)
- Samsung Galaxy S23+ (SM-S916B/DS)
- Samsung Galaxy S22 5G (SM-S901U, SM-S901B)
- Samsung Galaxy S22 Ultra 5G (SM-S908U, SM-S908B)
- Samsung Galaxy S22+ 5G (SM-S906U, SM-S906B)
- Samsung Galaxy S21 5G (SM-G991U)(US)
- Samsung Galaxy S21
- Samsung Galaxy S21 (US)
- Samsung Galaxy S21+ 5G (SM-G996U)(US)
- Samsung Galaxy S21 Ultra 5G (SM-G998U)(US)
- Samsung Galaxy S21 5G (SM-G991B)
- Samsung Galaxy S21+ 5G (SM-G996B)
- Samsung Galaxy S21 Ultra 5G (SM-G998B)
- Samsung Galaxy Note 20 Ultra
- Samsung Galaxy Note 20 Ultra (SM-N981U1)(US)
- Samsung Galaxy Note 20 5G (SM-N981U1) (US)
- Samsung Galaxy S20+
- Samsung Galaxy S20+ (US)
- Samsung Galaxy S20 5G (SM-G981B)
- Samsung Galaxy S20 5G (SM-G981U1) (US)
- Samsung Galaxy S20 Ultra 5G (SM-G988B)
- Samsung Galaxy S20 Ultra 5G (SM-G988U)(US)
- Samsung Galaxy S20 (SM-G980F)
- Samsung Galaxy S20 (SM-G) (US)
- Samsung Galaxy Note 10+ (SM-N975F)
- Samsung Galaxy Note 10+ (SM-N975U1)(US)
- Samsung Galaxy Note 10 (SM-N970F)
- Samsung Galaxy Note 10 (SM-N970U)(US)
- Samsung Galaxy Note 10 Lite (SM-N770F/DS)
- Samsung Galaxy S10 Lite (SM-G770F/DS)
- Samsung Galaxy S10 (SM-G973F)
- Samsung Galaxy S10 (SM-G973U1) (US)
- Samsung Galaxy S10+ (SM-G975F)
- Samsung Galaxy S10+ (SM-G975U) (US)
- Samsung Galaxy S10e (SM-G970F)
- Samsung Galaxy S10e (SM-G970U) (US/China)
- Samsung Galaxy S10 5G (SM-G977U) (US)
- Samsung Galaxy S10 5G (SM-G977B)
- Google Pixel 9 Pro XL
- Google Pixel 9 Pro
- Google Pixel 9
- Google Pixel 8Pro
- Google Pixel 8a
- Google Pixel 8
- Google Pixel 7Pro
- Google Pixel 7a
- Google Pixel 7
- Google Pixel 6
- Google Pixel 6 Pro
- Google Pixel 6a
- Google Pixel 5
- Google Pixel 5a 5G
- Google Pixel 4a 5G
- Google Pixel 4
- Google Pixel 4a
- Google Pixel 4XL
- Google Pixel 3
- Google Pixel 3XL
- Google Pixel 3a
- Google Pixel 3a XL
- Google Pixel 2 XL
- Google Pixel 2
- OnePlus Nord (AC2001)
- OnePlus Nord (AC2003)
- OnePlus 8T
- OnePlus 8 Pro
- OnePlus 7T
- OnePlus 7 Pro
- Motorola Razr 50 Ultra
- Motorola Edge 50 Pro
- Asus ROG 6
- Asus ROG 6 Pro
- Asus Zenfone 8
- Asus Zenfone 8 Flip
- Vivo IQOO 10 (V2217A)
- Vivo IQOO 10 Pro (V2218A)
- Xiaomi 13 (2201133G)
- Xiaomi 12 (2201123G)
- Xiaomi Mi 11 (M2011K2G)
- Lenovo Tab P11 (TB-J607Z)
- Sony XPERIA 1V (XQ-DQ54)
- Fairphone 5 5G (FP5)

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***Required Security Permissions:**

- 1) Allow CleverEar to send you notifications?
- 2) Request to turn on Location Information,
- 3) Could the CleverEar app be allowed to find and connect to nearby devices and determine their relative position?
- 4) CleverEar turns on Bluetooth and asks for connection permission.
- 5) Should the CleverEar app be allowed to access the location of this device?

User Roles and Permissions:

The program allows users to have different levels of access. For example, a clinical expert can change all settings of the device, while a user can only adjust the volume. This is important to prevent unauthorized access and prevent accidental changes to the system.

Automatic Software Updates:

Adaptation software must be maintained with continuous security patches and updates. Older software versions may be vulnerable to known vulnerabilities, so automatic updates or regular manual updates of the software should be provided.

Malware Detection:

If users' devices or computers are infected with malware, the software can detect it by running a security scan and alert the user.

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