

Noise Cancelling Headphones

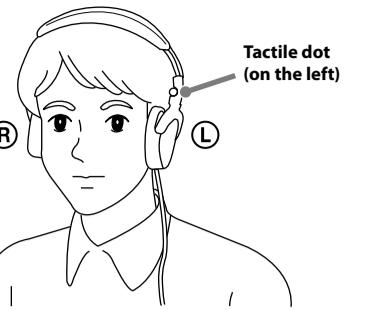
4-283-468-21 (1)

MDR-NC200D

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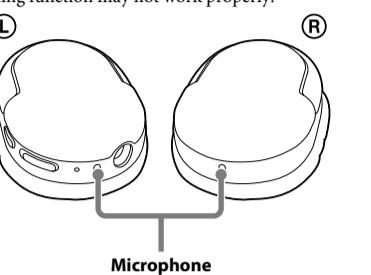
Operating Instructions
使用説明書
사용설명서

3 Wear the headphones marked **(R)** on your right ear and the one marked **(L)** (① has a tactile dot for ease of use.) on your left ear.



Notes

- Adjust the earpads so that they cover your ears, otherwise noise canceling will not function properly.
- Do not cover the microphone of the headphones with your hands. The noise canceling function may not work properly.

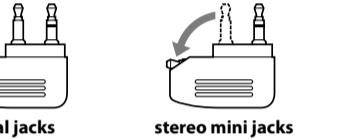


- After you turn on the power of the headphones, you may hear a slight hiss. This is the operating sound of the noise canceling function, not a malfunction.
- Because the headphones are of a high density enclosure, forcing them against your ears may result in ear canal damage. Avoid using the headphones where they are liable to be struck by people or other objects, such as a ball, etc. Pressing the headphones against your ears may produce a diaphragm click sound. This is not a malfunction.

4 Turn on the power of the AV equipment.

Notes on using on the airplane

- The supplied plug adaptor can be connected to the dual or stereo mini jacks of in-flight music services.



- Do not use the headphones when use of electronic equipment is prohibited or when use of personal headphones for in-flight music services is prohibited.

Utilizing the AI Noise Cancelling

AI Noise Cancelling

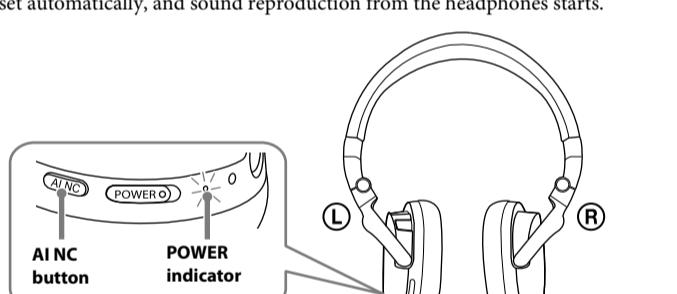
AI Noise Cancelling is a useful function that automatically selects one of the noise canceling modes. This function provides the most effective noise canceling mode by immediately analyzing ambient sound components when the AI NC button is pressed.

Press the AI NC button.

When you press the AI NC button and the POWER switch is set to "ON", beeps come from the headphones to inform you that the unit has started analyzing ambient sound components (approx. 3 seconds).

During analysis, sound reproduction from the unit is stopped and the POWER indicator blinks.

When analysis is completed, the most effective noise canceling mode is set automatically, and sound reproduction from the headphones starts.



Noise canceling mode types

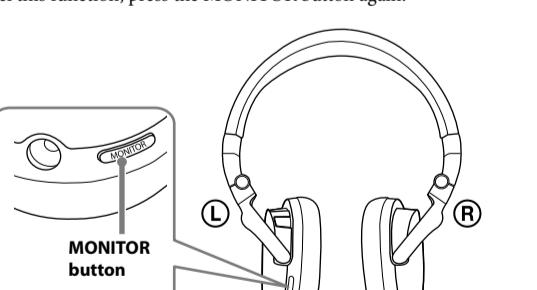
NC Mode A: Noise mainly in an airplane is effectively reduced.
NC Mode B: Noise mainly in a bus or a train is effectively reduced.
NC Mode C: Noise mainly found in an office environment (PC, copier, air ventilation, etc.) is effectively reduced.

Tips

- When the power of the headphones is turned on, NC Mode A is set. (See "Noise canceling mode types" for details about NC Mode A.)
- Press the AI NC button again to reset the noise canceling mode if ambient noise has changed, such as when you move outdoors from a room.

Hearing environment sound for safety

Press the MONITOR button while the POWER switch is set to "ON", playback silences, and you can hear the surrounding environment. To cancel this function, press the MONITOR button again.



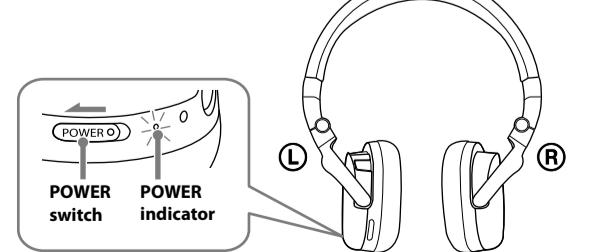
Notes

- When connecting the cord, insert the plug into the jack until the green portion of the plug disappears.

- Disconnect the cord, pull it out by the plug, not the cord, as the inner conductors may break.

- Turn on the power of the headphones.

- The POWER indicator lights up in green. When power is turned on, ambient noise is reduced, and you can listen to music more clearly at a lower volume.



Beep sound and indicator status

Status/Function	Beep sound	Indicator
Power off	No beep	Lights off
Power on	Beep once	Lights on
AI NC	Beep twice	Blinks twice
MONITOR	Beep once	Blinks slowly
Low battery	Long beep (2 seconds)	Blinks quickly (30 seconds)

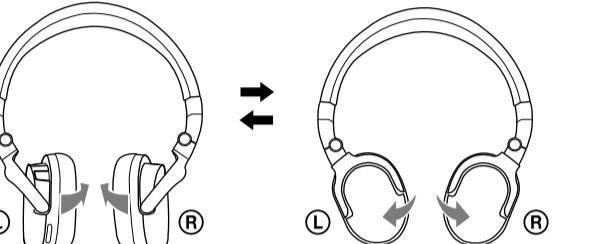
After use

Turn off the power of the headphones and the AV equipment.

Folding the headphones

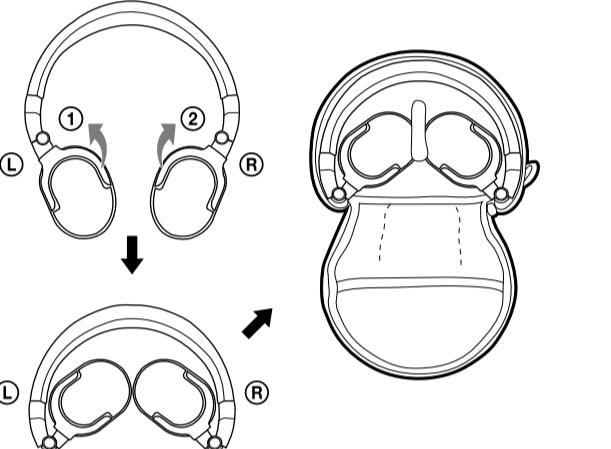
Flat storage

Rotate the housings to make them flat for easy storage in the seat pocket. Restore to their usual position before using.



Putting the headphones in the carrying case

Fold the headphones as illustrated before putting them in the carrying case (supplied).



Precautions

The headphones contain a noise canceling circuit.

What is noise canceling?

The noise canceling circuit actually senses outside noise with built-in microphones and sends an equal-but-opposite canceling signal to the headphones.

- The noise canceling effect may not be pronounced in a very quiet environment, or some noise may be heard.
- The noise canceling effect may vary depending on how you wear the headphones.
- The noise canceling function works for noise in the low frequency band primarily. Although noise is reduced, it is not canceled completely.
- When you use the headphones in a train or a car, noise may occur depending on street conditions.
- Mobile phones may cause interference and noise. Should this occur, locate the headphones further away from the mobile phone.

Notes on usage

- Clean the headphones with a soft dry cloth.
- Do not leave the plug dirty otherwise the sound may be distorted.
- Be sure to consult a Sony dealer when the earpads become dirty or damaged, or when the headphones require repair work.

- Do not leave the stereo headphones in a location subject to direct sunlight, heat or moisture.
- Do not subject the headphones to excessive shock.

- Handle the driver units carefully.
- If you feel drowsy or sick while using these headphones, stop use immediately.

Notes on headphones

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

Do not use headphones while driving and cycling, etc.

As headphones reduce outside sounds, they may cause a traffic accident. Also, avoid listening with your headphones in situations where hearing must not be impaired, for example, a railroad crossing, a construction site, etc.

Note on static electricity

In particularly dry air conditions, noise or sound skipping may occur, or mild tingling may be felt on your ears. This is a result of static electricity accumulated in the body, and not a malfunction of the headphones. The effect can be minimized by wearing clothes made from natural materials.

If you have any questions or problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

Troubleshooting

No sound

- Replace the battery. You can use the headphones even without turning on the power. In this case, the noise canceling function, Digital Equalizer and S-Master are not active, and the headphones operate as passive headphones.

- Check the connection of the headphones and the AV equipment.

- Turn up the volume of the connected AV equipment.

- Check if the MONITOR function is on (the indicator blinks slowly). Press the MONITOR button to turn it off.

The noise canceling effect is not sufficient

- The noise canceling function is effective in low frequency ranges such as airplanes, trains, or offices (near air-conditioning, etc.) and is not effective for higher frequencies, such as human voices.

- Turn on the headphones.

Distorted sound

- Turn down the volume of the connected AV equipment.

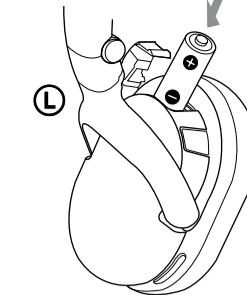
Power does not turn on

- Check if the battery has expired (the POWER indicator lights off). Replace the battery with a new one.

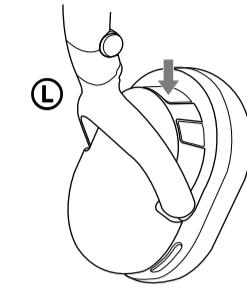
No operation works

- Set the POWER switch of the headphones to "OFF", confirm the connections, and then set the POWER switch back to "ON".

3 裝入LR03 (AAA尺寸) 電池, ●端先放入。



4 關閉電池蓋。



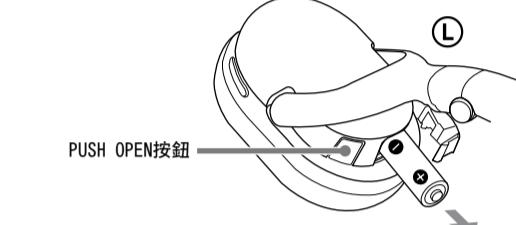
電池使用時間

電池	大約小時數* 1
Sony鹼性電池 LR03 AAA尺寸	22小時*2

*1 1 kHz, 0.1 mW + 0.1 mW輸出
*2 上述時間可能會因溫度或使用條件而有所不同。

電池電量低時

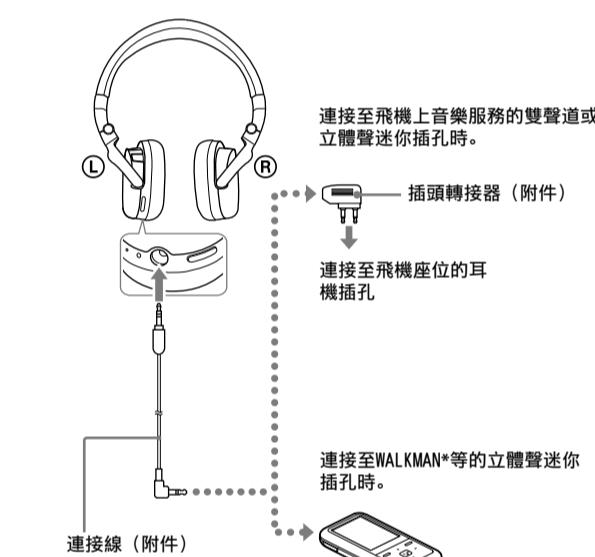
POWER指示燈閃爍或熄滅時, 請更換電池。按下PUSH OPEN按鈕, 打開電池蓋, 然後依照圖例方向取出電池。



即使沒有開啟電源, 也可以使用耳機。在這種情況下, 防噪功能、數位等化器與S-Master不會啟用, 耳機也只能當作被動式耳機操作。

聆聽音樂

1 將耳機連接至AV設備。



* WALKMAN與"WALKMAN"標誌是Sony Corporation的註冊商標。

注意
• 連接導線時, 請將插頭插入插孔, 然後等待插頭的綠色部份消失。



• 要中斷導線的連接, 請抓住插頭拔下, 不要拉導線, 因為內部導線可能斷裂。

2 開啟耳機的電源。

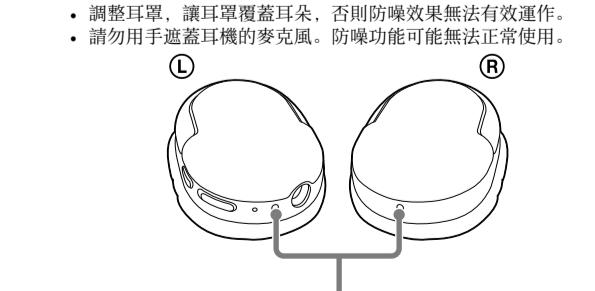
POWER指示燈亮起綠燈。開啟電源時, 會降低環境噪音, 也能夠以低音量更清楚地聆聽音樂。



3 將標有(R)的耳機戴在右耳, 將標有(L)的耳機 (①有觸點, 方便使用) 戴在左耳。



注意
• 調整耳罩, 讓耳罩覆蓋耳朵, 否則防噪效果無法有效運作。
• 請勿用手遮蓋耳機的麥克風。防噪功能可能無法正常使用。



開啟耳機的電源後, 可能會聽到些許的嘶嘶聲。這是防噪功能的操作音, 不是故障。
因為耳機是高密度機殼, 緊貼著耳朵可能會損壞耳膜。避免在會被人或球等其他物體撞到的地方使用耳機。對著耳朵按壓耳機可能會讓振動膜發出卡嗒聲。這並非故障。

在飛機上使用的注意事項

- 隨附頭轉接器可以連接至飛機上音樂服務的雙聲道或立體聲迷你插孔。
- 雙聲道插孔 立體聲迷你插孔
- 禁止使用電子設備或禁止使用私人耳機來享受飛機上的音樂服務時，請勿使用耳機。

使用AI防噪

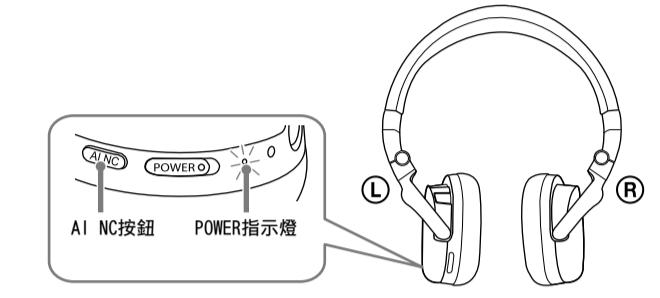
AI防噪

AI防噪是一種實用功能，會自動選擇其中一種防噪模式。這個功能提供最有效的防噪模式，按下AI NC按鈕時，可以立即分析環境聲音分量。

按下AI NC按鈕。

按下AI NC按鈕，將POWER開關設定為“ON”，耳機會發出噲聲，代表本機已經開始分析環境聲音分量（大約3秒）。

分析期間，本機的聲音重現會停止，且POWER指示燈會閃爍。分析完成時，會自動設定最有效的防噪模式，耳機會開始聲音重現。



防噪模式類型

NC模式A：主要能夠有效降低飛機內的噪音。

NC模式B：主要能夠有效降低公車或火車內的噪音。

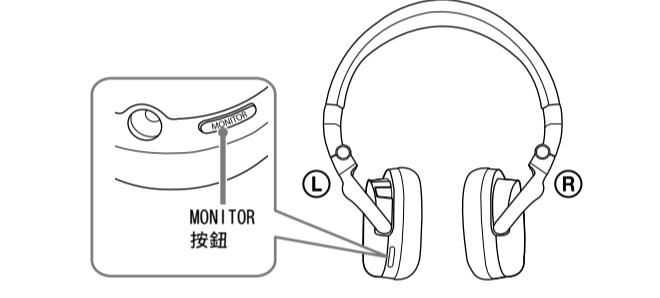
NC模式C：主要能夠有效降低辦公室環境的噪音（電腦、影印機、通風等）。

• 提示
• 開啟耳機的電源時，會啟用NC模式A。（有關NC模式A的詳細資訊，請參閱“防噪模式類型”）
• 如果環境噪音已改變，例如從戶外移至室內，再按一次AI NC按鈕，重設防噪模式。

聽得見環境聲音，才能維護安全

POWER開關設定為“ON”時，按下MONITOR按鈕會變成靜音，這時可以聽到周圍環境的聲音。

要取消這個功能，再按一次MONITOR按鈕。



噪音與指示燈狀態

狀態/功能	噪音	指示燈
電源關閉	沒有噪音	熄燈
電源開啟	嘩—聲	亮燈
AI NC	嘩兩聲	閃爍兩次
MONITOR	嘩—聲	緩慢閃爍
電池電量低	長嘩聲（2秒）	快速閃爍（30秒）

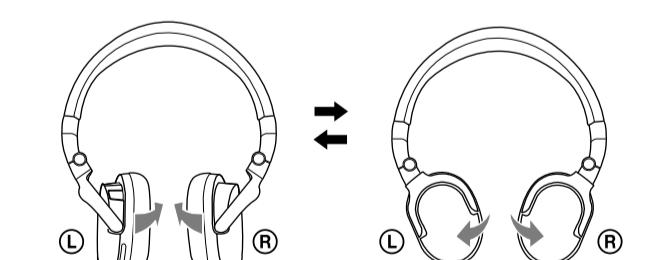
使用後

關閉耳機與AV設備的電源。

折疊耳機

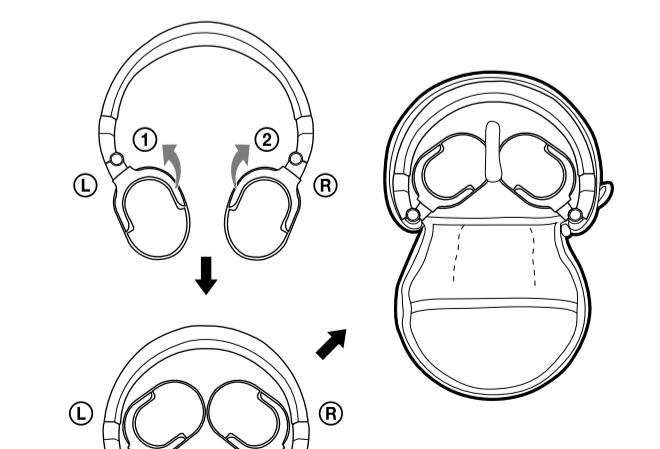
平整式存放

旋轉機殼，讓耳機變平，方便存放在椅背置物袋。使用前，再還原成原狀。



請將耳機置於攜帶盒

將耳機置於攜帶盒（附件）前，請先折疊耳機，如圖所示。



注意事項

耳機內含防噪迴路。

防噪是什麼？
防噪迴路通過內建麥克風感應外部噪音，並將等量但反向的防噪訊號發送到耳機。

- 在很安靜的環境中，防噪效果可能不明顯，或是可能聽到一些噪音。
- 設備戴耳機的方式而定，防噪效果可能會有所差異。
- 防噪功能主要對低頻帶的噪音有效。雖然可以減少噪音，但是無法完全消除。
- 在火車上或汽車內使用耳機時，視街道狀況而定，可能產生噪音。
- 行動電話可能會引起干擾和噪音。若發生這種情況，請將耳機放在遠離行動電話的位置。

使用注意事項

- 請用柔軟的乾布清潔耳機。
- 請清潔插孔的插頭，否則聲音可能失真。
- 耳塞髒污或損壞時，或是需要維修時，請洽Sony經銷商。
- 請勿將立體聲耳機放在受陽光直射、靠近熱源或有濕氣的地方。
- 請勿讓耳機受到嚴重撞擊。
- 小心處理微動單元。
- 如果在使用耳機時感到頭暈或不適，請立即停用。

耳機的注意事項

避免聽力受損
避免使用耳機以高音量收聽。聽覺專家建議，不要連續長時間高音量播放。如果發生耳鳴現象，請調低音量或暫停使用。

請勿在駕駛或騎車時使用耳機

因為耳機會降低外在環境的聲音，可能導致交通意外。此外，在機場不得受影響的環境，例如鐵路平交道、工地等，避免使用耳機收聽。

靜電的注意事項

在特別乾燥的天氣中，可能會發出噪音或發生跳音，或是耳朵可能會感到輕微的刺痛。這是因為人體積聚的靜電所造成，並非耳機故障。穿著天然材質製成的衣服，可以將影響降到最低。

如果對本系統有任何疑問或問題，本手冊未加以說明，請就近與Sony經銷商聯絡。

故障排除

沒有聲音

- 換換耳機。即使沒有開啟電源，也可以使用耳機。在這種情況下，防噪功能、數位等化器與S-Master不會啟用，耳機也只能當作被動式耳機操作。
- 檢查耳機和AV設備的連接。
- 檢查連接的AV設備的電源是否開啟。
- 將連接的AV設備的音量調高。
- 查看MONITOR功能是否開啟（指示燈緩慢閃爍）。按下MONITOR按鈕，關閉該功能。

防噪效果不足

- 防噪功能在飛機上、火車上或辦公室內（靠近空調等）低頻範圍有效，對於人聲等較高的頻率效果較不明顯。
- 開啟耳機的電源。

聲音失真

- 將連接的AV設備的音量調低。

電源打不開

- 檢查電池是否已耗盡（POWER指示燈熄滅）。更換新電池。

不能操作

- 將耳機的POWER開關設定為“OFF”，確認連接，然後將POWER開關設回“ON”。

規格

一般	
型式	動態，封閉式
激勵單元	40 mm，圓頂型（採用 CCAW）
功率處理容量	50 mW
阻抗	1 kHz時68 Ω (當電源開啟時) 1 kHz時35 Ω (當電源關閉時)
靈敏度	103 dB/mW (當電源開啟時) 102 dB/mW (當電源關閉時)
頻率響應	8 Hz - 23,000 Hz
總降噪比 ¹	約17.5 dB ²
電源	DC 1.5 V, 1 × LR03 (AAA尺寸) 電池
質量	約180 g

內含的項目

- 耳機（1）
- 適用於飛機上的插頭轉接器³（單/雙）（1）
- 連接線（1.5 m，鍍金L型立體聲迷你插頭）（1）
- 攜帶盒（1）
- 使用說明書（1）

¹ 根據Sony測量標準。

² 相當於與太極戴耳機時相比約降低98.2%的聲音功率。

³ 可能與某些飛機上的音樂服務不相容。

設計和規格如有變更，恕不另行通知。

• 根據Sony測量標準。
• 相當於與太極戴耳機時相比約降低98.2%的聲音功率。
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• 根據Sony測量標準。
• 相當於與太