

Noise Canceling Headphones

Operating Instructions
使用說明書



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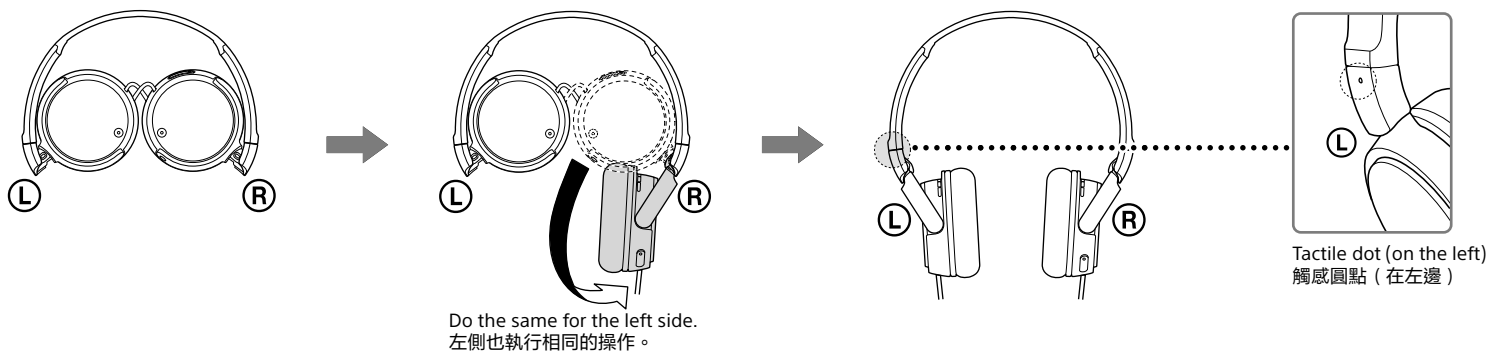
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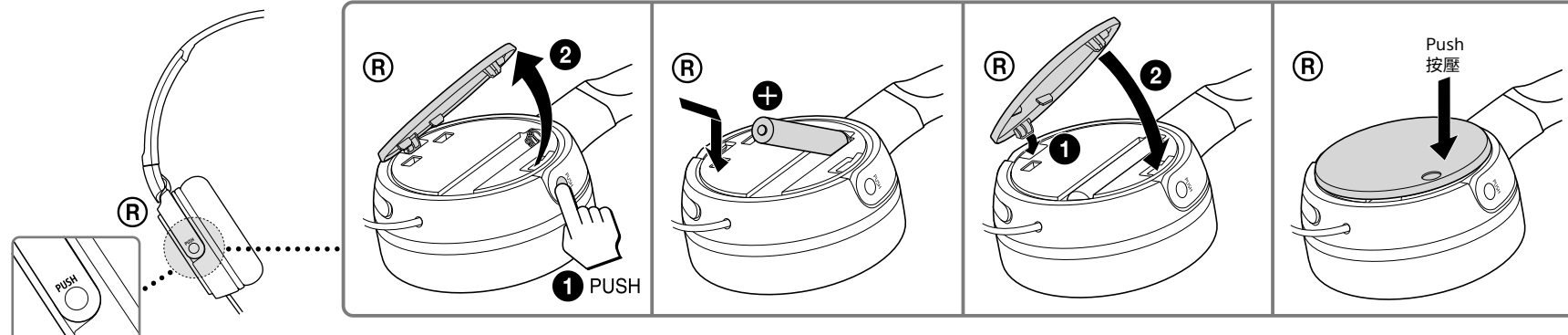
MDR-ZX110NC

How to use/使用方式

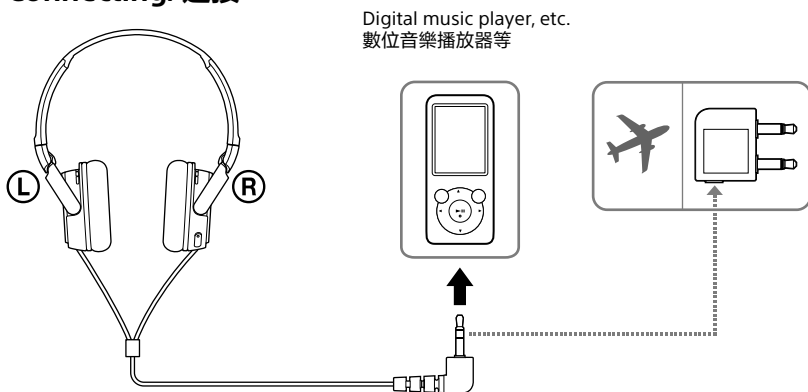
1 Unfolding the headphones/展開耳機



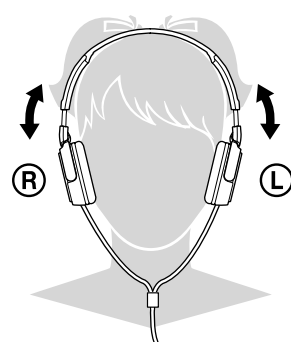
2 Installing a battery/安裝電池



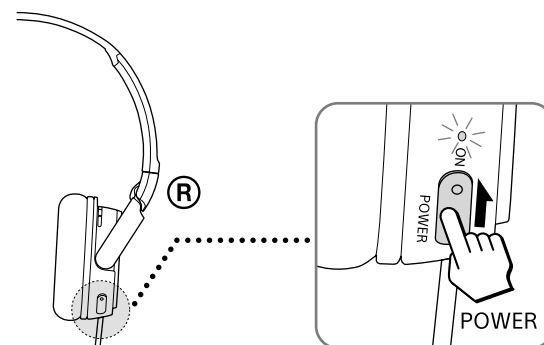
3 Connecting/連接



5 Wearing/配戴



4 Turning on the power/開啟電源



After use
Turn off the power of the headphones
使用後
關閉耳機電源

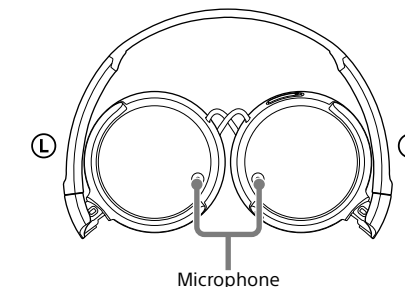
Notes on use

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.

Notes on the noise canceling function

- Adjust the earpads so that they cover your ears, otherwise noise canceling will not function properly.
- The noise canceling effect may vary depending on how you wear the headphones.
- 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.
- The noise canceling function works for noise in the low frequency band primarily. Although noise is reduced, it is not canceled completely.
- The noise canceling effect may not be pronounced in a very quiet environment, or some noise may be heard.
- 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 using on the airplane

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

Notes on handling

- Because the headphones are designed to fit closely in your ears, forcing them against your ears may result in eardrum 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.
- 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 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 this headphones, stop use immediately.

Notes on headphones

High volume may adversely affect your hearing.

Do not use the unit while walking, driving, or cycling. Doing so may cause traffic accidents.

Do not use in hazardous areas unless the surrounding sound can be heard.

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.

The unit is not waterproof. If water or foreign matter enters the unit, it may result in fire or electric shock. If water or foreign matter enters the unit, stop use immediately and consult your nearest Sony dealer. In particular, be careful in the following cases.

- When using the unit near a sink or liquid container
Be careful that the unit does not fall into a sink or container filled with water.
- When using the unit in the rain or snow, or in humid locations
- When using the unit while you are perspiring
If you touch the unit with wet hands, or put the unit in the pocket of a damp article of clothing, the unit may get wet.

Note about static electricity

If you use the unit when the air is dry, you may experience discomfort due to static electricity accumulated on your body. This is not a malfunction of the unit. You can reduce the effect by wearing clothes made of natural materials that do not easily generate static electricity.

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

- Check the connection of the headphones and the equipment.
- Check that the connected equipment is turned on.
- Turn up the volume of the connected equipment.
- Clean the plug of the headphones with a soft dry cloth.

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 as effective for higher frequencies, such as human voices.
- Turn on the headphones.

Distorted sound

- Turn down the volume of the connected equipment.
- Clean the plug of the headphones with a soft dry cloth.

Power does not turn on

- Check if the battery has expired (the POWER indicator lights off) and the battery is inserted in the correct orientation. Replace the battery with a new one or reinsert the battery in the correct orientation.

No operation works

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

Features

- 95% Ambient Noise Reduction
Noise canceling headphones reduce unwanted ambient noise and provide a quieter environment to enhance your listening experience.
- Quick folding style
Original compact folding mechanism for easy carriage and storage.
- Producing balanced, clear and powerful high quality sound
300 kJ/m³ Neodymium magnet delivers powerful sound and equalizer provides balanced sound from bass to high note.
- Able to use as a regular headphones even when the POWER switch is set to "OFF".
- Long battery life - approx. 80 hours with AAA alkaline battery.

Specifications

General

Type	Dynamic, closed
Driver units	30 mm, dome type (CCA W adopted)
Maximum input	28 mW
Impedance	220 Ω at 1 kHz (when the power is on) <p>45 Ω at 1 kHz (when the power is off)</p>
Sensitivity	115 dB/mW (when the power is on) <p>110 dB/mW (when the power is off)</p>
Frequency response	10 Hz – 22,000 Hz
Total Noise Suppression Ratio ¹⁾	Approx. 13 dB ²⁾
Cable	Approx. 1.2 m, OFC Litz wire
Plug	L-shaped gold-plated stereo mini plug
Power source	DC 1.5 V, 1 × R03 (size AAA) battery
Mass	Approx. 150 g including battery, not including cable

Battery life

Battery	Approx. hours ³⁾
Sony alkaline battery LR03 SIZE AAA	80 hours ⁴⁾
Sony manganese battery R03 SIZE AAA	40 hours ⁴⁾

When the battery is low

Replace the battery with a new one when the POWER indicator blinks or lights off.

Notes

- The sound and noise canceling effect may become intermittent when the battery is low.
- The headphones will automatically switch to passive mode when the battery power is empty. You might hear the sound characteristics change in this mode.

Included items

Headphones (1)
Plug adaptor for in-flight use³⁾ (1)
Operating Instructions (1)

¹⁾ Under the Sony measurement standard.

²⁾ Equivalent to approx. 95% reduction of energy of sound compared with not wearing headphones.

³⁾ At 1 kHz, 0.1 mW + 0.1 mW output

⁴⁾ Time stated above may vary, depending on the temperature or conditions of use.

⁵⁾ May not be compatible with some in-flight entertainment services.

Design and specifications are subject to change without notice.

中文	防噪耳機
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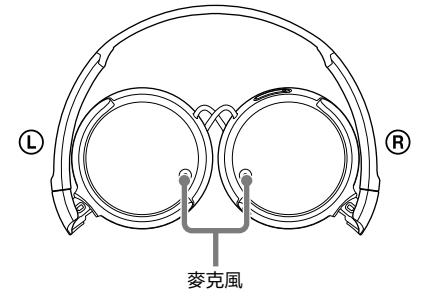
使用注意事項

什麼是防噪？

防噪電路使用內建麥克風實際上可感覺外部噪音，並將等量反相消除訊號傳送至耳機。

防噪功能注意事項

- 請調整耳墊使其貼合您的耳朵，否則防噪功能將無法正確運作。
- 防噪效果視您配戴耳機方式而定。
- 請勿用您的手遮蓋耳機的麥克風。否則，防噪功能將無法正確運作。



麥克風

- 開啟耳機電源之後，您可能會聽到輕微的嘶嘶聲。這是防噪功能的操作聲，並非故障。
- 防噪功能會主要作用於低頻帶的噪音。雖然噪音會減少，但不會完全消除。
- 防噪效果在很安靜的環境中可能不是很顯著，或者可能會聽到一些噪音。
- 在火車或汽車內使用耳機時，視街道環境而定，有可能會出現噪音。
- 行動電話可能會導致干擾或噪音。如果發生此種情形，請將您的耳機遠離行動電話。

飛機上使用注意事項

禁止使用電子設備時，或禁止使用飛機上娛樂服務個人耳機時，請勿使用耳機。

操作注意事項

- 因為耳機設計為緊密貼合您的耳朵，將耳機壓緊您的耳朵，可能會造成鼓膜受損。在易受人們或如球等其他物體撞擊之處，請避免使用耳機。
- 將耳機向著您的耳朵按壓，可能會造成隔膜喀噠聲。這不屬於故障。
- 請以柔軟的乾布清潔耳機。
- 請勿忽略髒汙的插頭，否則聲音可能失真。
- 耳墊變得髒汙或毀損，或耳機需進行維修工作時，請務必洽詢Sony經銷商。
- 請勿將耳機置於易受陽光直射、熱源、濕氣影響之處。
- 請勿使耳機受重擊。
- 請小心處理激勵單元。
- 使用耳機時，如發生昏睡或不適之情形，請立即停止使用。

耳機注意事項

高音量可能會對您的聽力產生不良影響。

在走路、駕駛或騎單車時，請勿使用本裝置。否則可能發生交通意外。

除非可以聽到周圍的聲音，否則請勿在有危險性的區域使用本裝置。

防止聽力受損

避免在高音量下使用耳機。聽力專家建議，請勿連續、大聲和長時間播放。如果您耳中響起鈴聲，請降低音量或停止使用。

本裝置不防水。如果水或異物進入本裝置，可能發生火災或電擊。如果水或異物進入本裝置，請立即停止使用，並詢問鄰近的Sony經銷商。請特別小心下列情況。

- 在水槽或液體容器附近使用本裝置時，請小心勿使本裝置掉入裝有水的水槽或容器中。
- 在雨中或雪中使用，或在潮濕的地方使用時
- 在您流汗時使用本裝置時

如果您以潮濕的手觸碰本裝置，或將其置於潮濕衣物的口袋中，本裝置可能會受潮。

關於靜電的附註

如果在空氣乾燥的情況下使用本裝置，由於人體積聚靜電，您可能會感到不適。這並非本裝置故障。您可以穿著不易產生靜電的天然材質製成的衣服來降低這種效果。

如果您有本手冊未涉及的裝置相關任何疑問或問題，請洽詢離您最近的Sony經銷商。

故障排除

無聲音

- 請檢查耳機和設備的連接。
- 請檢查連接的設備是否已開啟。
- 調高連接的設備音量。
- 請以柔軟的乾布清潔耳機的插頭。

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。

聲音失真

- 調低連接的設備音量。
- 請以柔軟的乾布清潔耳機的插頭。

電源沒開啟

- 檢查是否電池已過期（POWER指示燈關閉），並且電池已放置於正確方位。請以新電池進行電池更換，或將電池重新放置於正確方位。

無任何操作進行運作

- 將耳機的POWER開關設定為“OFF”，並確認連接情形，然後將POWER開關設定回復為“ON”。

特點

- 95%減少周圍噪音
防噪耳機能減少周圍噪音，並提供更安靜的環境以強化聆聽體驗。
- 快速摺疊設計
易於攜帶和存放的原創袖摺疊構造。
- 產生平衡、清晰且強勁有力的超高音質
300 kJ/m³致磁體能傳導強效音效，等化器則在低音與高音之間提供平衡音效。
- 即使POWER開關設定為“OFF”，也能當作一般耳機使用。
- 電池使用時間長 – 使用鹼性AAA電池，大約80小時。

規格

一般	
型式	動態，封閉式
激勵單元	30 mm，圓頂型（採用CCA W）
最大輸入	28 mW
阻抗	1 kHz時220 Ω（開啟電源時） <p>1 kHz時45 Ω（關閉電源時）</p>
靈敏度	115 dB/mW（開啟電源時） <p>110 dB/mW（關閉電源時）</p>
頻率響應	10 Hz – 22000 Hz
總降噪比 ¹⁾	約13 dB ²⁾
連接線	約1.2 m, OFC絞合線
插頭	L型鍍金立體聲迷你插頭
電源	DC 1.5 V，1 × R03（AAA尺寸）電池
質量	約150 g, 包括電池，不包括連接線

電池使用時間

電池	約小時 ³⁾
Sony鹼性電池 LR03 AAA尺寸	80小時 ⁴⁾
Sony錳電池 R03 AAA尺寸	40小時 ⁴⁾

電池電力不足時

POWER指示燈閃爍或熄滅時，請以新電池進行更換。

注意

- 當電池電力不足時，聲音和防噪效果可能會變得斷斷續續。
- 當電池電力耗盡時，耳機將自動切換為被動模式。在該模式下您可能會聽到聲音特性發生變化。

內含的物品

耳機 (1)
飛機上適用的插頭轉接器³⁾ (1)
使用說明書 (1)

¹⁾ 在Sony測量標準下。

²⁾ 與未戴耳機相較，相當於減少約95%的聲音功率。

³⁾ 1 kHz時，0.1 mW + 0.1 mW輸出

⁴⁾ 視溫度或使用情形而定，前述時間可能有所不同。

⁵⁾ 可能與某些飛機上的娛樂服務不相容。

設計和規格若有變更時，將不再另行通知。