

Bowers & Wilkins

Px8 and Px7 S2 Wireless Headphones

Welcome to Bowers & Wilkins and Px8 and Px7 S2

Thank you for choosing Bowers & Wilkins. When John Bowers first established our company, he did so in the belief that imaginative design, innovative engineering and advanced technology were keys that could unlock the enjoyment of audio in the home. His belief is one that we continue to share and inspires every product we design, tailored for new audio experiences outside of the home.

The Bowers & Wilkins Px8 and Px7 S2 are high performance over-ear headphones designed to deliver the highest quality mobile personal audio experience combined with the convenience of wireless operation and the serenity of noise-cancellation. This manual will tell you everything you need to know to get the most from your Px8 and Px7 S2 headphones.

Your Px8 and Px7 S2 can play music streamed wirelessly from your mobile phone, tablet or computer via Bluetooth, or conventionally connected by a jack cable to a suitable analogue headphone output. Px8 and Px7 S2 can also play audio via a USB connection from a computer and can be used for wireless telephony.

Px8 and Px7 S2 Real World Listening features include our latest innovations in Adaptive Noise Cancellation, Ambient Pass-Through and enhanced Wear Sensing technologies. Our latest generation noise cancellation feature was designed from the ground up with intelligent environment sensing capabilities, automatically selecting the appropriate type of noise cancellation best suited to your surrounding environment, its only goal is to deliver an uncompromised listening experience. Ambient Pass-Through enables external sounds, such as conversation or safety announcements, to be heard clearly without any need to remove the headphones. The Wear Sensing feature enables Px8 and Px7 S2 to respond naturally, pausing and resuming the music simply by lifting either earpiece on or off your ear. These features can be enabled and further customised via the Bowers & Wilkins App available for free on iOS and Android devices.

Px8 and Px7 S2 incorporates a rechargeable battery pack. When fully charged, depending on the degree of Bluetooth, Adaptive Noise Cancellation and Ambient Pass-Through use, the battery pack can provide up to 30 hours of continuous wireless media streaming with noise cancellation enabled at average playback volume levels.

1. Px8 and Px7 S2 Carton Contents

Px8 or Px7 S2 headphones
Storage case
USB-C charging cable
3.5mm audio cable
Document pack

2. Getting to know your Px8 and Px7 S2

2.1 Switching Headphones On and Off

Diagram 1 illustrates power switch functionality.

Switching On

The Power Switch is located on the right earpiece. Slide the Power Switch up to the middle position. An audible cue will be presented and the LED indicator will light up in either green, amber or red displaying the current charge level.

Switching Off

Slide the Power Switch to the bottom position. An audible cue will be presented and the headphones will power down when the LED indicator is no longer lit.

2.2 Headphone Controls

Diagram 2 illustrates the headphone controls. The following buttons on the right earpiece are used to for media playback:

Function	Action
Play or pause	Press the play / pause button once.
Play to next track	Press the play / pause button twice in quick succession. <i>Note: functionality dependent on source device.</i>
Play previous track	Press the play / pause button three times in quick succession. <i>Note: functionality dependent on source device.</i>
Increase Volume	Press the Volume + button.
Lower Volume	Press the Volume - button.

The following buttons on the right earpiece are used for phone call functionality:

Function	Action
Answer or end call	Press the play / pause button once.
Decline an incoming call	When incoming call occurs, hold the play / pause for 2 seconds.
Switch between two calls	With two calls active, press the play / pause button twice.
Merge two calls	With two calls active, hold the play / pause button for 1 second.
Toggle mute	While on a call, press the play / pause button three times.

2.3 Status Indicator

The status LED indicator is located on the right earpiece, Diagram 3 explains the illumination states.

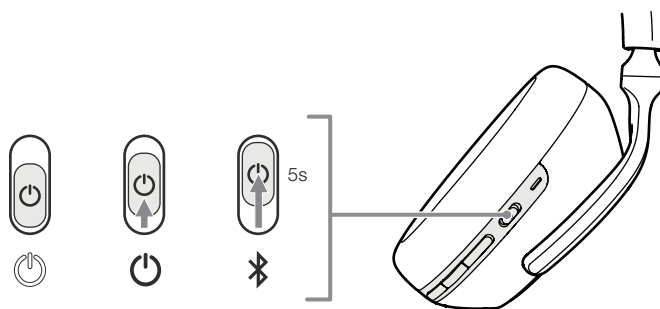


Diagram 1
Power switch functionality

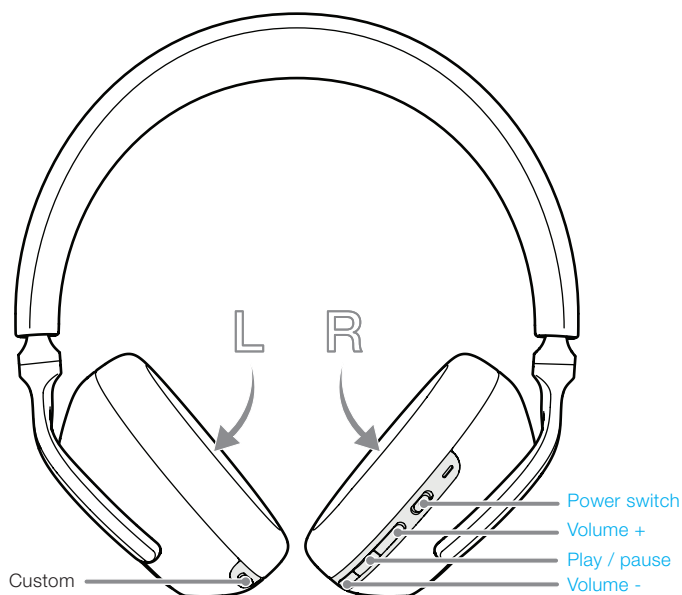


Diagram 2
Headphone controls

Illumination		Operational state
Green (power on)	●	Battery charge > 30%
Amber (power on)	●	Battery charge between 30% and 10%
Red (power on)	●	Battery charge < 10%
Red flashing	✖	Battery charge insufficient for headphone operation
Blue flashing	✖	Pairing mode enabled
Blue (2 sec solid)	●	Pairing successful
Blue flashing (calls)	✖	Incoming call
Green flashing	✖	Rapid charging
Green solid	●	Battery charge full, trickle charging

Diagram 3
Status indicator illuminations

3. Intelligent Features

3.1 Adaptive Noise Cancellation

Noise cancellation is a series of advanced technologies that aids in removing undesired noise from the surrounding environment.

Px8 and Px7 S2 features our latest innovations in adaptive noise cancellation, this includes intelligent sensing that adapts noise cancellation and tuning best suited to your surrounding environment. As your surroundings change, noise cancellation will auto adapt to complement your new environment.

The Custom button on the left earpiece is used to cycle between the following modes, see Diagram 2 for button location:

Mode	Application
High	Suitable for consistently noisy environments such in an airplane cabin.
Low	Suitable for environments where you need awareness of your surroundings.
Auto	Intelligently adapts noise cancellation best suited to your current environment.
Off	Turns off the noise cancellation feature.

3.2 Voice Assistance

Voice Assistant is activated by a long press of the Play/Pause button. See Diagram 2 for button location.

3.3 Ambient Pass-Through

Px8 and Px7 S2 features ambient pass-through which lets some external noise from the surrounding environment, such as safety announcements or conversations, to be heard without taking the headphones off.

The Custom button on the left earpiece also controls this feature, one press turns ANC On, press again to turn Ambient Pass-Through On, press again to turn Ambient Pass-Through Off. See Diagram 2 for button location.

3.4 Wear Sensors

Px8 and Px7 S2 incorporate our latest enhanced wear detection sensors in both earpieces, see Diagram 4, enabling intelligent battery conservation by entering standby when removed from the head. When worn again, Px8 and Px7 S2 automatically wakes and connects to the last connected Bluetooth device.

During media playback, Px8 and Px7 S2 will auto pause when either earpiece is lifted from the ear. Playback will auto resume when the earpiece is placed back on the ear. Auto resume has been further optimised so it is ready only when you are. This means the headphone will not attempt to resume playback during following conditions:

1. Headphone powers on from the off state.
2. Headphone wakes from the standby state.
3. Headphone reboots (such as after a factory reset).

Wear sensor and standby can be adjusted using the Bowers & Wilkins App.

Note: Take care when wearing your headphones; hair or accessories trapped between your ears and the earpieces, or wearing glasses that distort the profile of your ears, may interfere with the performance of the proximity sensors.

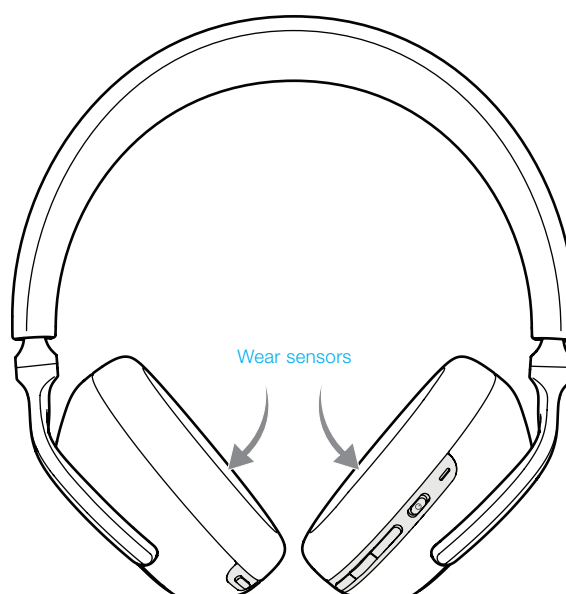


Diagram 4
Wear sensor location

4. Battery Charging and Power Saving

Your Px8 and Px7 S2 comes with the battery partially charged may be used immediately. For best practice we recommend to fully charge the headphones before first use. Please allow up to 3 hours for full charge. The headphones can be used while charging.

To charge:

1. Please use the supplied charging cable and connect the USB-C plug to a wall charger or a powered computer USB-C socket.
2. Then connect the USB-C end to the headphones USB-C socket

Note: During charging, the headphone indicator will flash green. When fully charged, the indicator will remain illuminated. See Diagram 3 for status indicator details.

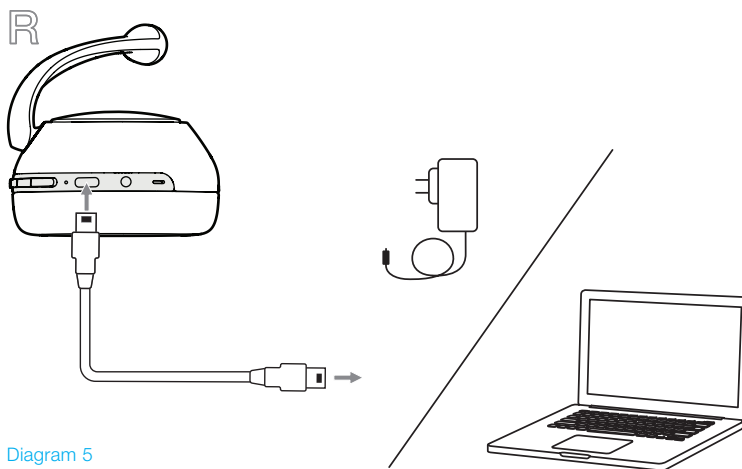


Diagram 5
USB-C cable connection

4.1 Standby Power Saving

Px8 and Px7 S2 wear detection sensors intelligently conserve power. When taken off your head, Px8 and Px7 S2 will automatically enter standby which will pause media playback, disconnect Bluetooth and switch to a low power state.

When worn again, Px8 and Px7 S2 will wake and reconnect to the last connected Bluetooth source. Note that both earpieces must detect wear for proper functionality. If wear sensors are disabled using the app, this feature will also be disabled.

With the app, you can customise how long the headphones will wait before switching to auto standby, please see Standby Timer under Settings in the app.

5. Wearing Your Headphones

Wearing your headphones correctly will help ensure the best possible experience. See Diagram 6.

1. Identify the left and right earpieces by finding the identification legends located on the interior of each earpiece.
2. Wear the headphones accordingly with the headband adjusted so that they rest comfortably on your head.

Note: Wearing glasses that distort the profile of your ears may interfere with headphone performance. Similarly, hair trapped between your ears and the headphone ear-pieces may interfere with the wear sensor performance.

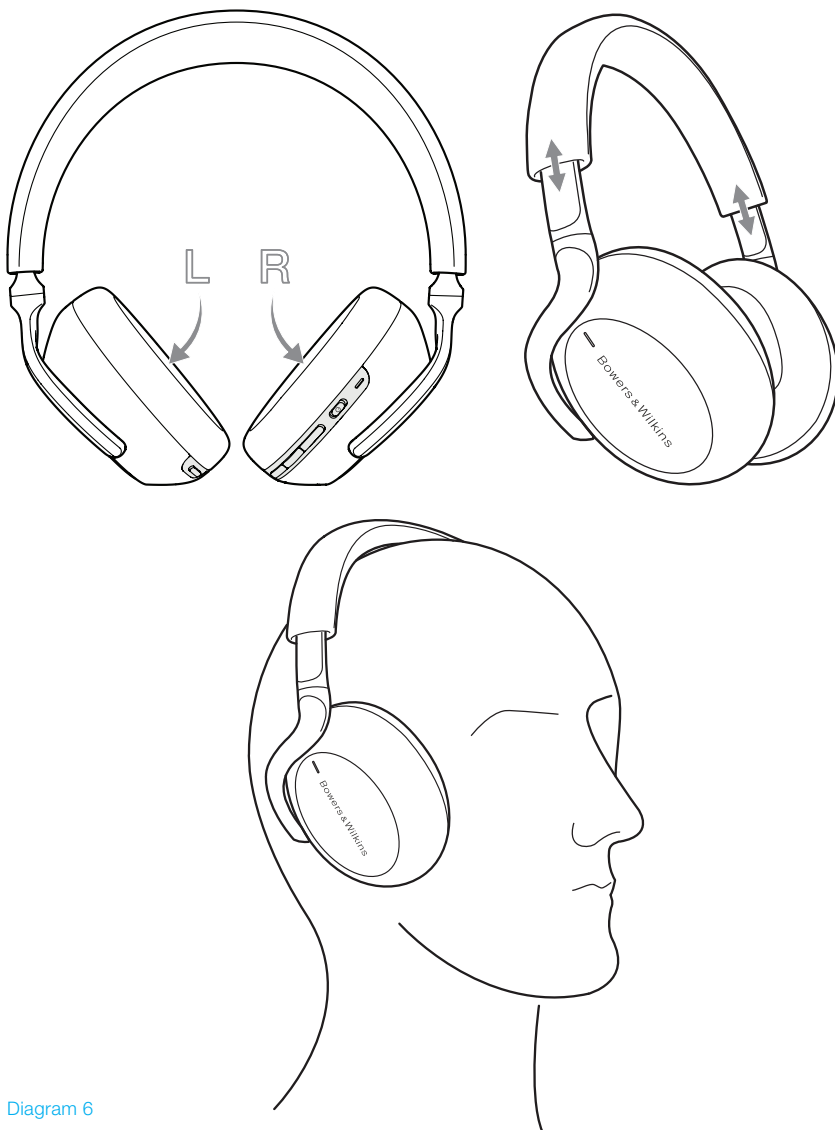


Diagram 6
Wearing your headphones

6. Bluetooth Connection

6.1 Pairing

Your Px8 and Px7 S2 headphones are designed to stream music wirelessly from Bluetooth audio devices, such as smartphones, tablets, or computers. To do so, the headphones and device must first be paired.

When you receive your Px8 and Px7 S2 headphones they will be ready to pair to any Bluetooth audio device.

6.1.1 iOS System / Android System without Google FastPair.

1. Download the Bowers & Wilkins App.
2. Switch on your headphones, by sliding Power Switch to the On position, the indicator will flash blue.
3. Go to the Bluetooth pairing menu of your device and select the "Bowers & Wilkins PX-BC" or "Bowers & Wilkins Px7 S2" from the device list.
4. The indicator will change to solid blue to indicate pairing is successful.
5. Open the Bowers & Wilkins app and add the headphones.

Note: Your headphones will automatically exit Bluetooth pairing mode if no device is paired within 5 minutes. If pairing fails, the indicator will rapid flash blue, please try pairing again.

To pair to a subsequent device:

1. Press and hold the power button for 5 seconds, the case indicator will flash blue.
3. Go to the Bluetooth pairing menu of your new device and select the "Bowers & Wilkins PX-BC" or "Bowers & Wilkins Px7 S2" from the device list.
4. The indicator will change to solid blue to indicate pairing is successful.

Px8 and Px7 S2 can remember up to 8 paired Bluetooth Devices. Repeat the above steps to pair more devices.

Note: Your headphones will automatically exit Bluetooth pairing mode if no device is paired within 5 minutes. If pairing fails, the indicator will rapid flash blue, please try pairing again.

6.1.2 Google FastPair (For Android System integrated with GFP Feature)

To add your headphones:

1. Switch on your headphones, by sliding Power Switch to the On position, and place the headphones no further than 10cm (4 inches) away from Android device (BT enabled).
2. A GFP (Google FastPair) notification window will pop up showing "Bowers & Wilkins PX-BC detected" or "Bowers & Wilkins Px7 S2" detected" and request to start the pairing process.
3. Press "Notification" button on the window to enable the pairing, successful connection will be shown in GFP window.
4. Once paired GFP window will direct you to the Google Play store to download and Install the Bowers & Wilkins App.

6.3 App features

The Bowers & Wilkins App provides extended setup and adjustments to features such as Adaptive Noise Cancellation, Ambient Pass-Through, and Wear Sensors. The app also provides further customisations such as wear sensors, ambient pass-through on and off connection management, and headphone software updates. The app is available as a free download on iOS and Android devices.

To add your headphones:

1. From your mobile device, download and install the Bowers & Wilkins App.
2. Launch the app, then read and follow the instructions pertaining app notification and permissions.
3. After reaching the main screen either use the in-app set up guide or go into Settings to add products.

6.4 Headphone Software Update

Bowers & Wilkins will occasionally make available software updates that refine and optimise the performance of your headphones or add new features.

The Bowers & Wilkins app will notify you when a software update is available, tap on the notification and follow the in-app instructions.

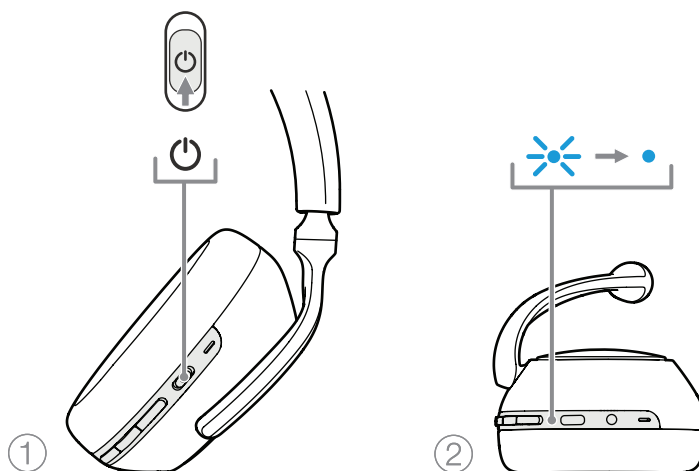


Diagram 7
Bluetooth pairing

7. Auxiliary Connection

In addition to Bluetooth, your Px8 and Px7 S2 can also connect to audio sources using the supplied 3.5mm audio or USB cables.

7.1 Connecting with the 3.5mm Audio Cable

The 3.5mm audio cable enables your Px8 and Px7 S2 to be used with a device supporting an analogue output such as a conventional headphone socket on smartphones or tablets, or a traditional hi-fi system.

1. Insert the USB-C - 3.5mm audio cable into the headphone USB-C socket on the right ear piece.
2. Take the other end and insert into the appropriate socket on your device.
3. Your Px8 and Px7 S2 will automatically disconnect from any Bluetooth devices.

Note: Your headphones must have sufficient charge and switched on to play audio from an analogue source device. The volume and play/pause buttons will not function when using the 3.5mm interface.

7.2 Connecting with the USB Cable

USB connection enables your Px8 and Px7 S2 to function as a USB sound output device when connected to a capable computer.

1. Insert the USB-C end into the Px8 and Px7 S2 USB-C socket on the right ear piece.
2. Take the USB Type A end and insert into the appropriate socket on your computer.
3. Px8 and Px7 S2 will automatically disconnect from any Bluetooth devices.
4. Find and select your headphones from the computer's audio output control panel.

Note: When connected to an capable computer USB port, the headphone battery will also charge.

8. Reset

You can clear the paired device history and restore all settings to their defaults. With Px8 and Px7 S2 powered on, simultaneously hold the Volume +, Volume - and Custom buttons for 10 seconds until the indicator LED extinguishes, let go when the indicator lights up again, the headphones will be ready to pair to a device. Alternatively, you can reset from the Bowers & Wilkins App, please see Reset under Settings in the app.

9. Care & Maintenance

9.1 Storing Your Px8 and Px7 S2

Taking care of your Px8 and Px7 S2 will ensure they continue to deliver the best performance and experience.

When not used, stow your headphones using the included case. It is recommended the headphones are first powered off:

1. Retract the headband on each side so they are in the smallest position.
2. With the buttons facing you, rotate the earpieces inwards so they lay flat.
3. Place the headphones in to the storage case.

9.2 Cleaning Your Px8 and Px7 S2

Your Px8 and Px7 S2 can be cleaned by a soft, damp microfiber cloth, gently wipe or dab clean.

The fabric on Px8 and Px7 S2 have been specially coated with moisture and stain repellent. If dirt, stain or fibre residue accumulate on the fabric surface, please clean as instructed above.

- Do NOT aggressively rub or use an abrasive tool to clean, especially the fabric.
- Do NOT use paper towels, napkins or tissue as they will leave residue.
- Do NOT use cleaning detergents, soapy water, polish or chemical cleaners.
- Ensure that no moisture get inside the earpieces, buttons and interface ports.

10. Support

Should you require further help or advice regarding your Px8 and Px7 S2 please visit the Headphones support site here www.bowerswilkins.com/support.

Environmental Information

This product complies with international directives, including but not limited to the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment, the Registration, Evaluation, Authorisation and restriction of Chemicals (REACH) and the disposal of Waste Electrical and Electronic Equipment (WEEE). Consult your local waste disposal authority for guidance on how properly to recycle or dispose of this product.

Specifications

Wearing Style	Bluetooth Wireless Over-Ear Headphones
Technical Features	Adaptive Noise Cancellation Ambient Pass-Through Wear-Detection Sensor Bluetooth® audio - Bluetooth 5.0 with aptX™ Adaptive USB-C charging & audio interface
Bluetooth Codecs	aptX™ Adaptive aptX™ HD aptX™ Classic AAC SBC
Bluetooth Profiles	A2DP AVRCP HFP HSP BLE GATT (Generic Attribute Profile)
Drive Units	2 x ø 43.6mm full range
Microphones	4x mics for ANC 2x mics for telephony
Frequency Range	10Hz to 30kHz
Input Impedance	20 kOhms
Distortion (THD)	<0.3% (1kHz/10mW)
Battery Type	Rechargeable Lithium Polymer
Battery Life & Charging	(TBC)
Inputs	Bluetooth, USB-C audio
In Box Accessories	1.2m USB-C to 3.5mm stereo audio cable 1.2m USB-C to USB-C cable Storage Case
Weight	TBC