

Bowers & Wilkins

Zeppelin
Owners manual



Contents

	Topic	Page
	Welcome	3
	iPod/iPhone compatibility	4
	Correct handling	5
	A tour of Zeppelin	6
	Turning on the remote	7
	Setting up	8
	Docking an iPod/iPhone	9
	Controlling the volume level	10
	Navigating tracks on your iPod/iPhone	11
	Outputting video	12
	Streaming content from the Internet	13
	Connecting a second source	14
	Playback from a second source	15
	Remote handset summary	16
	LED signal summary	17
	Taking calls on an iPhone	18
	Adjusting the sound	19
	Cleaning Zeppelin	20
	Upgrading Zeppelin software	21
	Environmental information	22
	Troubleshooting	23

Welcome

Thank you for purchasing Zeppelin and welcome to B&W Bowers & Wilkins.

The iPod® and iPhone™ are great music sources on the move, but when you're at home or in the office, or you want to share your music with friends and family, earphones are not convenient. There are many products on the market that allow you to dock your iPod or iPhone and hear your favourite music without earphones, but it's usually a choice between hi-fi separates with their bulk and trailing wires or one-box solutions that don't do justice to the player's capabilities.

Zeppelin is different. It's a one-box product with the Bowers & Wilkins name. That means you'll experience impact and clarity, involving spatial qualities most often missing when listening through headphones or less-capable loudspeaker systems. And it's 'Made for iPod', which means that Apple Inc. has certified it for seamless use with today's most popular music source.

With its airship-inspired shape, distinctively styled by Native Design, London, Zeppelin is simple and intuitive to use. But before you immerse yourself in its great sound, please take a moment to read through this manual. You should also familiarise yourself with the safety instructions supplied with the product.

Unlike most other one-piece iPod docking devices, Zeppelin incorporates a full 3-way stereo speaker system. Left and right channels have individual midrange and tweeter drivers, while the bass of both is handled by a single central bass driver. Together with the efficient and cool running switching amplifier, this ensures extremely high quality, room filling sound.

The unique universal support bracket securely holds all compatible iPods/iPhones without adaptors or adjustment and gives the user freedom to operate the player's own controls as easily as if it were in the hand.

Video iPods and iPhones benefit from Zeppelin's video output sockets, allowing the user to transfer images to a television.

Additional music sources such as MP3 players, portable CD players and laptops may be played through Zeppelin using the AUX socket at the rear. Both analogue and digital connections are supported by the same socket.

This manual supersedes any manual supplied with the product.

iPod/iPhone compatibility

Group A



iPod

1st + 2nd generation



iPod shuffle

1st generation



iPod shuffle

2nd generation

Group B



iPod

3rd generation

Group C



iPod mini



iPod

4th generation

Group D



iPod classic



iPod

5th generation
(video)



iPod nano

4th generation (video)



iPod nano

3rd generation
(video)



iPod nano

2nd generation
(aluminum)



iPod nano

1st generation

Group E



iPhone 3G



iPhone



iPod touch

2nd generation



iPod touch

1st generation

We have separated the different types of iPod/iPhone into groups, which we will use throughout the manual to describe differences in the way the various models interact with Zeppelin.

Use this table to identify which group your iPod/iPhone belongs to.

Group A models lack the standard 30-pin socket and will not dock with Zeppelin at all. These models can only play through Zeppelin by connecting their headphone output to Zeppelin's AUX input socket. See the section **Connecting a second source**.



Zeppelin only supports the latest USB charging, so will not charge the 3rd generation iPod in Group B, which requires Firewire®.

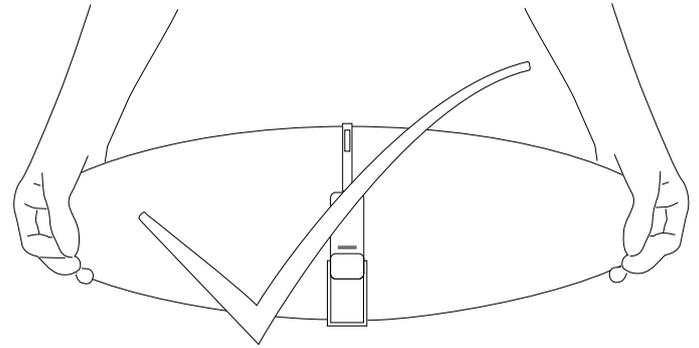
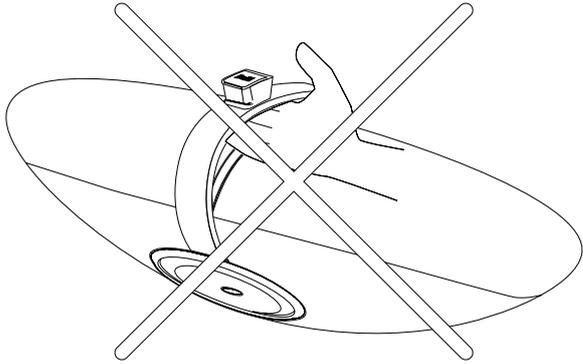
To ensure maximum functionality, we recommend you keep your iPod/iPhone software up to date. Check for upgrades in iTunes.

Zeppelin is not "Works with iPhone" certified. When you dock an iPhone, you will see a message on the screen informing you of this and asking if you wish to switch to Airplane Mode. There are no noise interference issues between Zeppelin and the iPhone, so press the No button and continue operation.

There are differences in the video and streaming operation of Group E devices, depending on the hardware version of Zeppelin and its software. Please refer to the sections **Outputting video** and **Streaming content from the Internet**.

Correct handling

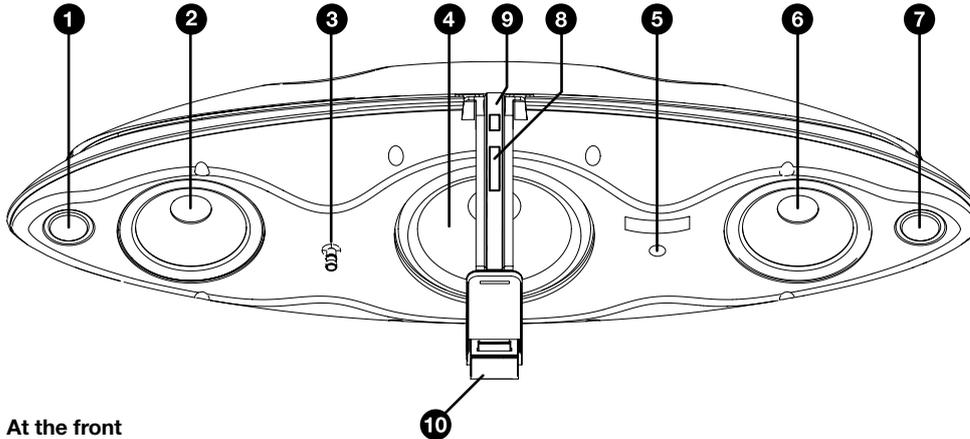
When lifting Zeppelin, use two hands on the body.
Never use the iPod support bracket as a handle.



A tour of Zeppelin

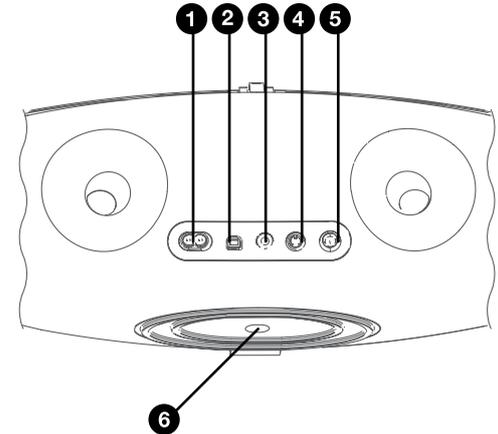
Although Zeppelin is exceptionally easy to use, please spend a few moments getting to know where its controls and connectors are and what they do.

Zeppelin is shown with the grilles removed so you can see what's behind. Do not try to remove the grilles. They are deliberately difficult to get off to limit access and avoid damage to exposed drivers.



At the front

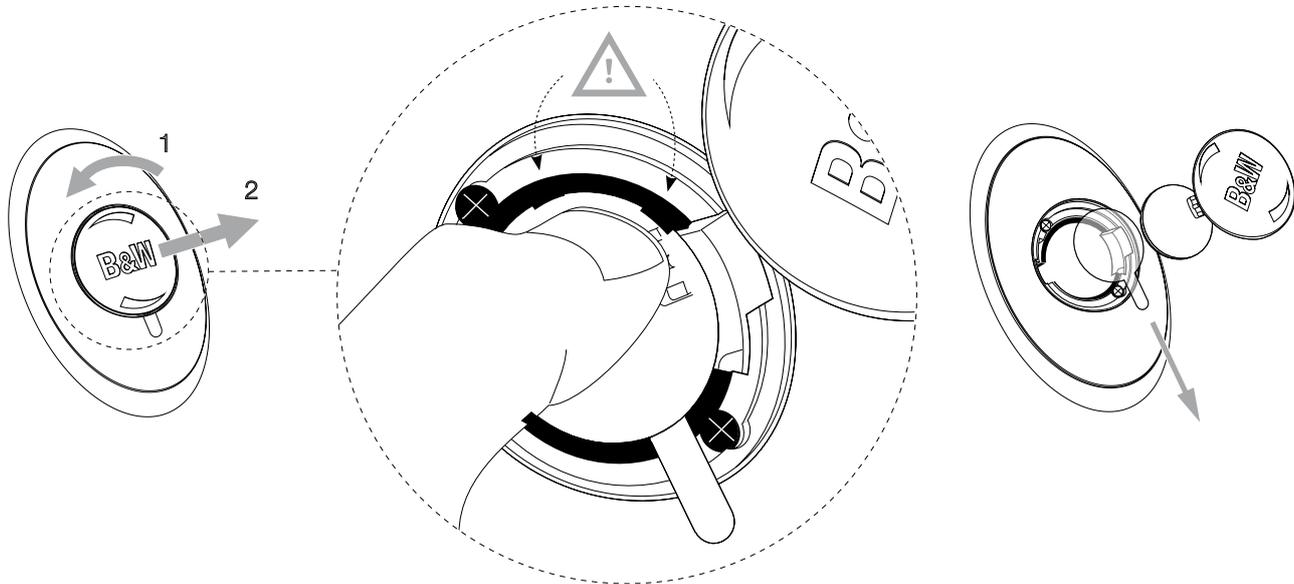
- 1 Left channel tweeter
- 2 Left channel midrange driver
- 3 Multicolour status LED.
- 4 Bass driver
- 5 Infrared remote control receiver.
- 6 Right channel midrange driver
- 7 Right channel tweeter
- 8 Volume up/down rocker button
- 9 Combined on/standby and source selector button
- 10 Spring-loaded iPod/iPhone connector port



At the back

- 1 Power input socket
- 2 USB slave socket for software updates to Zeppelin
- 3 AUX analogue/digital mini jack input socket
- 4 S-Video output socket
- 5 Composite video output socket
- 6 Serial number label

Turning on the remote control



Before using the remote handset for the first time, you must remove the clear plastic insulating tab that prevents the battery draining.

Rotate the battery cover anticlockwise 1/8 full turn and remove.

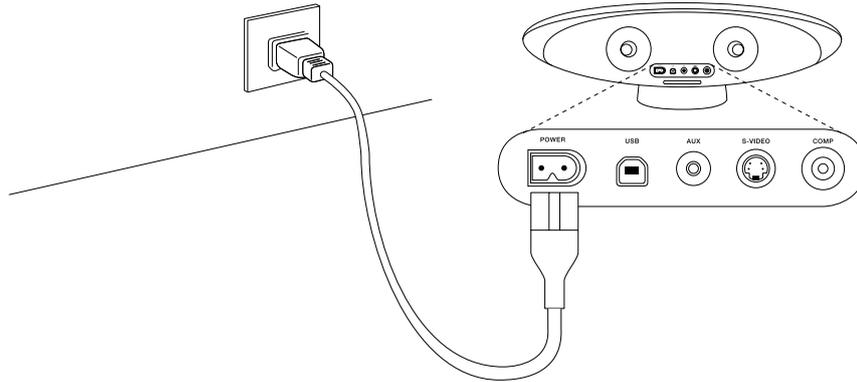
Release the battery. Press down on the edge of the battery between the two black lugs and the opposite side next to the metal spring will flip up.

Remove and discard the insulator.

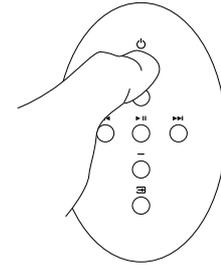
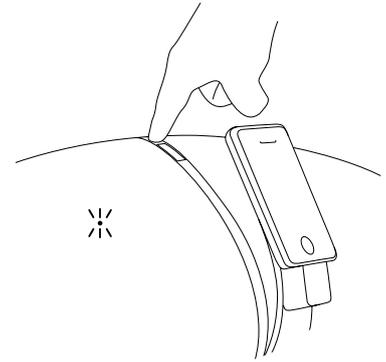
Replace the battery, first locating one side under the small lugs opposite the metal spring.

Replace the cover.

Setting up



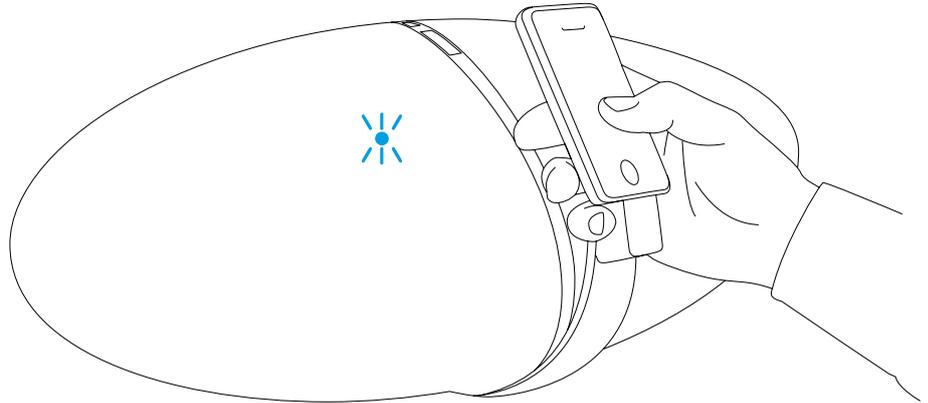
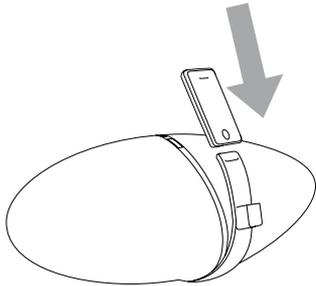
Connect Zeppelin to the power supply. When plugged in, Zeppelin will go through a system check for a couple of seconds, during which it will not accept commands, and then assume standby mode. In standby, the LED at the front will glow red.



To turn Zeppelin fully on, press the  button, either on the remote handset or on Zeppelin itself. When fully on, the LED colour will depend on the selected source – blue for iPod/iPhone or green for a second source plugged into the AUX socket.

To totally disconnect Zeppelin from the power supply, you will have to remove the plug from or switch off the wall outlet.

Docking an iPod/iPhone



To dock your iPod/iPhone, simply angle it, locate the long socket over the connector on the support bracket and push down fully.

The spring-loaded design automatically adjusts for all models and causes the iPod/iPhone to rest on the back support.

There's plenty of room to get your hand round the back of the support to operate the player's own controls in the normal way. Note that, because the socket in the base of 1st, 2nd and 4th generation nanos is offset to one side, they will not sit centrally on the support bracket.

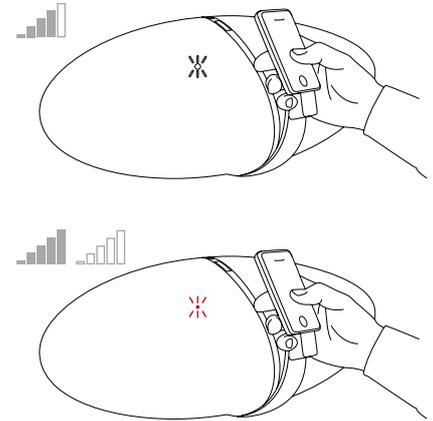
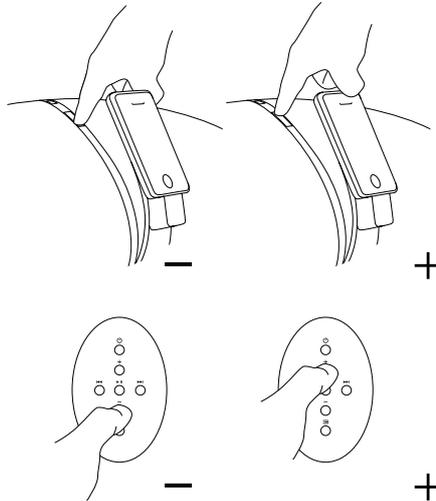
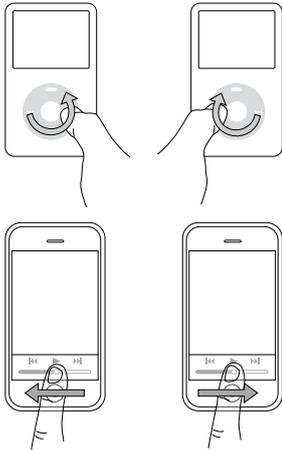
As soon as you dock your iPod/iPhone, Zeppelin automatically selects it as the source. If Zeppelin is in standby, it will automatically turn itself fully on without you having to press either ϕ button. The LED will glow yellow for a couple of seconds while the amplifier initialises and then turn to blue when Zeppelin is ready to play.

If your iPod/iPhone was turned off or in pause mode when you docked it, it will end up in paused mode. If it was playing, it will continue to play.

All the time your iPod/iPhone is docked and Zeppelin is plugged into the power supply, your iPod/iPhone will charge (except for Group A and Group B devices). If that's all you want it to do, put Zeppelin into standby to reduce power consumption using the ϕ button, either on Zeppelin or on the remote handset.

If you remove your iPod/iPhone while it is the selected source, Zeppelin will automatically go into standby after 5 minutes to reduce power consumption.

Controlling the volume



There are three ways to adjust Zeppelin's volume.

If your iPod/iPhone is docked, and it is a Group D or Group E device, its own volume control can be used to alter Zeppelin's volume level, which is also displayed on the iPod/iPhone's screen.

For the touch screen of devices in Group E, use the slider volume control at the bottom of the screen. For Group D iPods, use the click wheel.

When using the volume control of a docked iPod/iPhone, its own internal volume level is not affected, but is retained at its original level for when you remove the iPod/iPhone and go back to using headphones.

The click wheel and display of Group B and Group C iPods will not function in this way.

On Zeppelin itself, press on the upper section of the long button, marked + to increase the volume and the lower section, marked - to decrease it

On the remote, press the + button to increase the volume and the - button to decrease it.

In both cases, a short press will make a small change, or you can press and hold to ramp up or down.

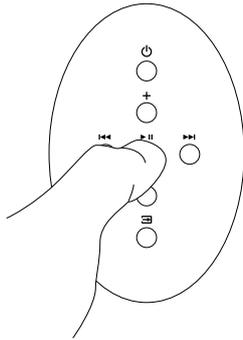
As you alter the volume level, Zeppelin's LED will flash. As you approach the maximum level, the LED will turn white. Once you reach either the maximum or minimum level, the LED will turn red.

Navigating tracks on your iPod/iPhone

If you are close to Zeppelin, it is easy to use the navigation controls on your iPod/iPhone as normal. However, for distant operation, the play/pause, forward and back controls that you are familiar with on your iPod/iPhone are duplicated on Zeppelin's remote handset.

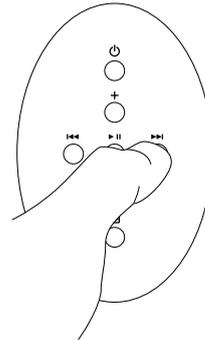
All the controls on your iPod/iPhone continue to work as normal. If you press Play on your iPod/iPhone while it is docked, Zeppelin will automatically select it as the source.

For complex operations, such as selecting a playlist, you will need to be close to Zeppelin in order to read the iPod/iPhone's screen. Zeppelin's design makes it so easy to use the iPod/iPhone's own controls that there is no need for these operations to be duplicated on the remote handset. As a consequence, Zeppelin's remote handset has deliberately been kept simple.



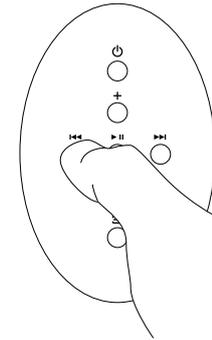
Just as on the iPod/iPhone, the ►|| button toggles between play and pause.

If you are playing a second source through Zeppelin's AUX socket, the play/pause button toggles mute on and off.



A single press on the ►► button moves you to the start of the next track. Press and hold to fast forward through the current track.

This button has no effect when playing a second source through Zeppelin's AUX socket.



A single press on the ◀◀ button moves you to the start of the current track. A double press takes you to the start of the previous track. Press and hold to fast reverse through the current track.

This button has no effect when playing a second source through Zeppelin's AUX socket.

Outputting video

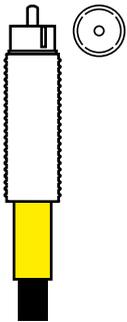
If you want to feed images from a video iPod or iPhone to your television, use either an S-video or composite video cable between Zeppelin and your set. If you have a choice, S-video offers slightly better quality.

If your iPod/iPhone is already playing a video as you dock it, the picture may not automatically transfer to the TV screen. In that case, stop the video, go back a step in the iPod/iPhone's menu, re-select the video and start it again.

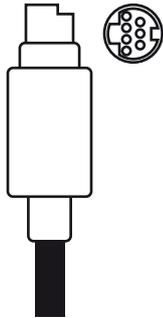
Group E devices always display video content in landscape orientation. When docked in Zeppelin, their screens are in portrait orientation, so video content is always set by Zeppelin to output to a TV and you will not be able to view the video on the touch or iPhone screen. With other video iPods, you can set the video output state on the iPod itself (**Video > Settings > TV Out >**) to be always displayed on the iPods screen (**Off**), or always output to a TV (**On**), or to pop up a choice message (**Ask**). Note that 4th generation nanos also display video content at right angles on their own screen.

Zeppelins with serial numbers beginning with Z-0 and having the originally installed software will not output video from Group E devices. To enable video output with these devices, upgrade Zeppelin's software on our web site www.bowers-wilkins.com

Download the Zeppelin Connectivity Guide from our web site for more details.

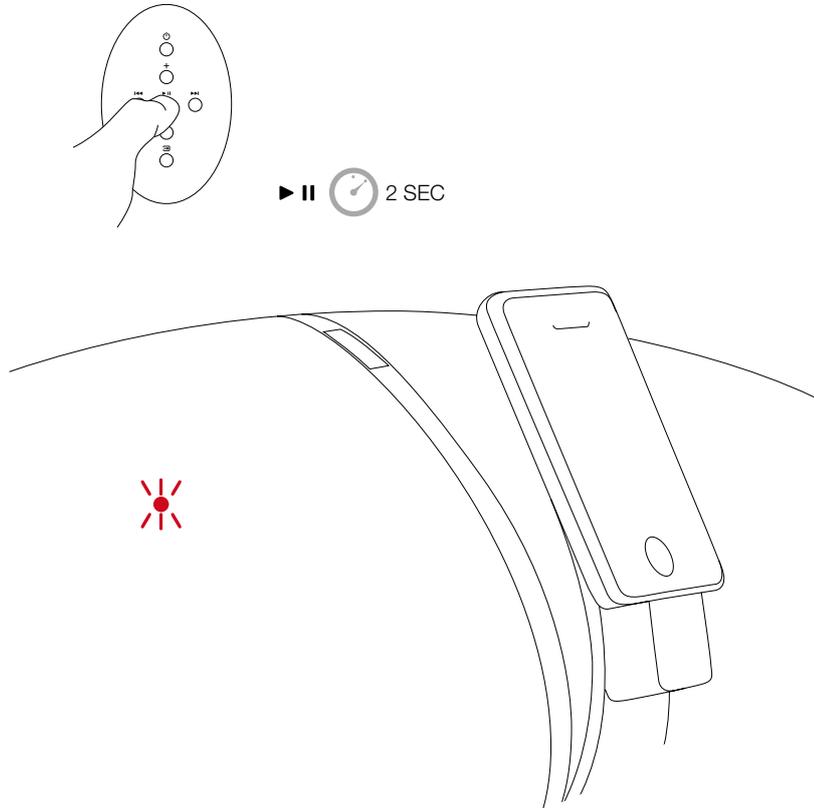


Composite video cable



S-video cable

Streaming content from the internet



The devices of Group E – iPod touch and iPhone – can connect to the Internet and stream both video and audio content. While streaming, their iPod function is paused and Zeppelin's LED will slowly flash blue. In this state Zeppelins with serial numbers starting Z-0 and with the original software installed mute their amplifier and the streamed audio content will not be heard.

To enable streamed content to be heard via this Zeppelin version, first upgrade the software, which you can access from the Zeppelin page of our web site www.bowers-wilkins.com. The later software by default will still mute-on-pause with Z-0 models, but this may be defeated by first placing Zeppelin into standby (when the LED will glow red). Press and hold the remote's play/pause button until the LED blinks (approximately 2 seconds). A single off/on indicates that the mute-on-pause has been defeated and streamed audio may be heard. A double off/on/off/on indicates that mute-on-pause has been restored.

Zeppelins with serial numbers starting with Z-1 or higher will stream Internet content as delivered.

When streaming from the Internet (eg from YouTube), the play/pause, forward and back buttons of Zeppelin's remote will not duplicate the on-screen controls of the touch/iPhone. Pressing the remote's play button will cause the current iPod-stored audio/video file to start playing.

Connecting a second source

You can connect a second source to Zeppelin using the AUX socket at the rear, which accepts both analogue and digital signals. Zeppelin will automatically know which type it is receiving.

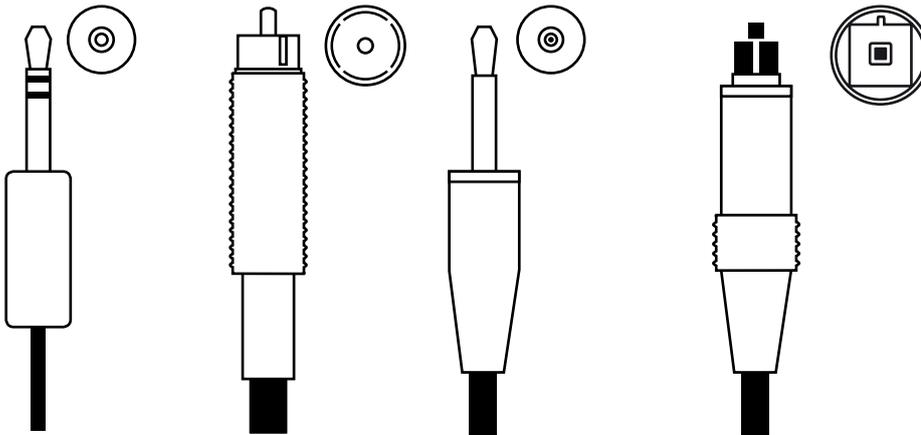
Analogue sources will need a 2-core coaxial cable terminated at the Zeppelin end by a mini stereo jack plug, just like the plug used for your iPod headphones. The plug required at the other end will depend on the source.

If the source is an early generation iPod, shuffle, MP3 player, laptop computer or portable CD player, the output will probably be from a headphone socket and the same style mini jack will be needed. If the source has its own volume control, set it to approximately 75% full scale.

If the source has a line output – a standard ‘stacking’ CD player, for example – you will probably need two RCA Phono plugs at the source end. If the source has its own volume control, set it to approximately 90% full scale.

Sources with an optical digital output use a fibre-optic cable, sometimes called a TOSLINK™. The standard TOSLINK™ termination has a stubby, block-ended shape, but some devices, including Zeppelin, Apple Macintosh®, Apple TV® and Apple Airport Express®, use an optical mini jack plug. These optical mini jacks have the same outline shape as the analogue version, but have no black stripes and have a clear tip for the light to pass through.

Download the Zeppelin Connectivity Guide from our web site for more information.



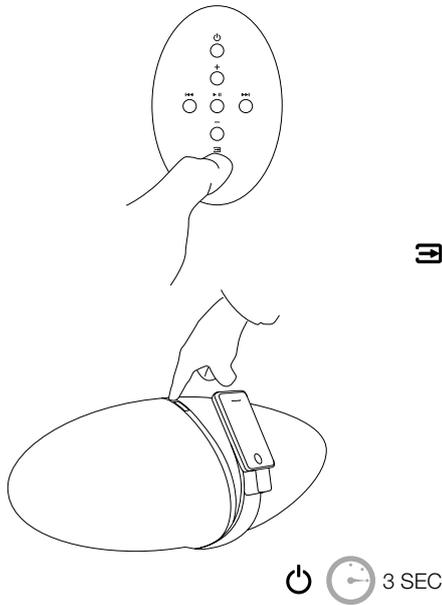
Analogue Mini jack

RCA Phono

Optical mini jack

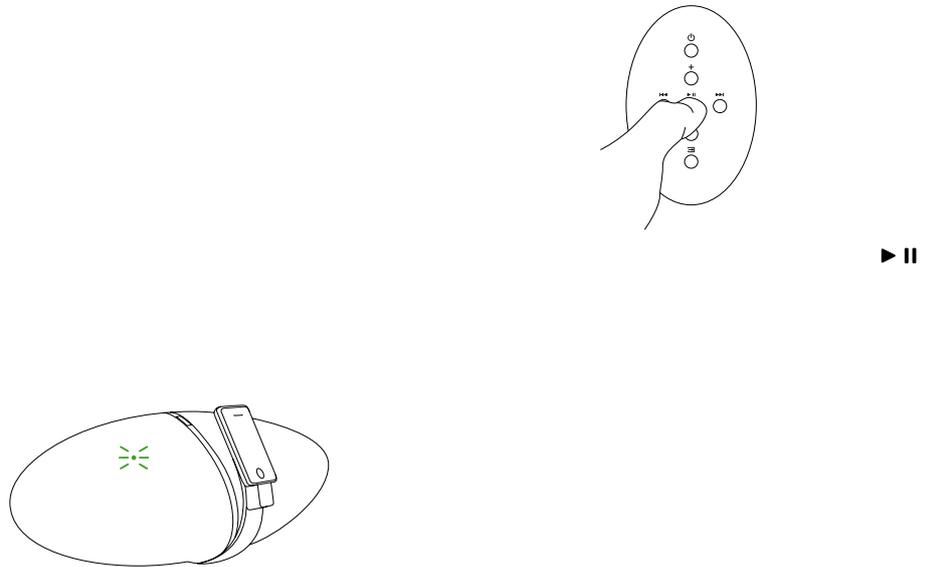
TOSLINK™

Playback from a second source



You can switch between the iPod/iPhone and a second (AUX) source by using the  button on the remote handset or by pressing and holding the combination  button on the top of Zeppelin itself. See the tables below for details.

When AUX is selected, Zeppelin's LED glows green.



The play/pause button  on Zeppelin's remote handset toggles mute on and off. The fast forward and fast reverse buttons have no effect.

If Zeppelin is manually switched to standby and on again, it automatically selects the last used source. If that source is no longer connected, Zeppelin will switch to the alternative. If no source at all is connected, Zeppelin will return to standby after 5 minutes. Your iPod/iPhone only overrides source selection as it is docked or if you press its own Play button while it is docked.

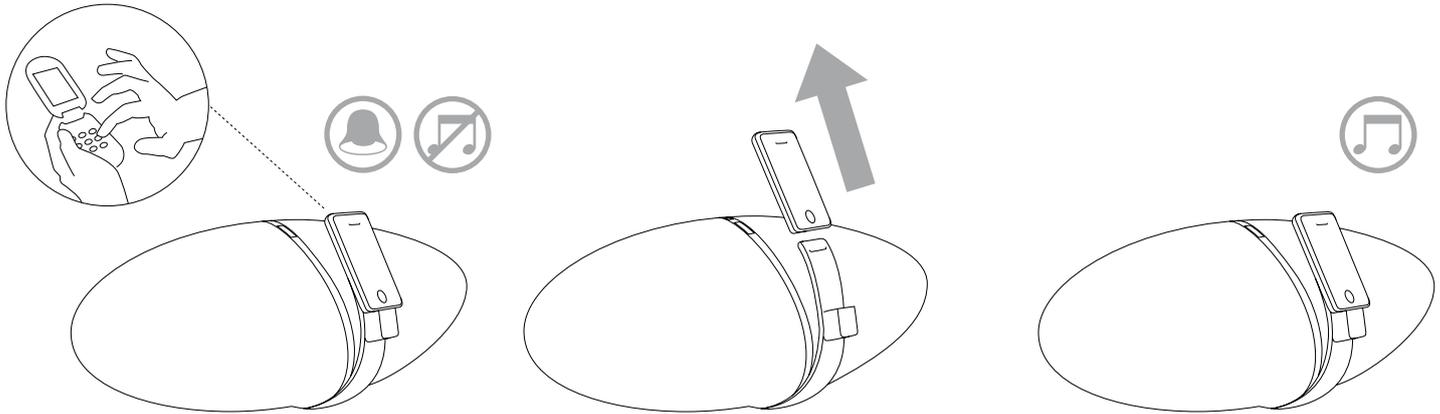
Remote handset summary

Button	Action	Effect
	Press once when Zeppelin in standby	Zeppelin turns on and selects last used source. See also section Playback from a second source.
	Press once when Zeppelin on	Zeppelin goes to standby. A docked iPod/iPhone is paused and turned off.
	Press once	Volume increases by small increment.
	Press and hold	Volume ramps up and LED flashes. White LED indicates approaching maximum volume. Red LED indicates maximum level.
	Press once	Volume decreases by small decrement.
	Press and hold	Volume ramps down and LED flashes. Red LED indicates minimum level.
	Press once	Toggle play/pause (if iPod/iPhone is source) Toggle mute on/off (if AUX is source)
	Press once	Go to start of next track (no effect for AUX)
	Press and hold	Scan forward through current track (no effect for AUX)
	Press once	Go to start of current track (no effect for AUX)
	Press twice	Go to start of previous track (no effect for AUX)
	Press and hold	Scan backwards through current track (no effect for AUX)
	Press once	Toggle between iPod/iPhone and AUX. If AUX selected, a docked iPod/iPhone will pause. If iPod/iPhone selected, it will play. If no alternative source is connected, a red LED indicates invalid command.

LED signal summary

LED state	Meaning
Steady red	Zeppelin in standby
Steady yellow	Zeppelin powering up from standby (2 sec)
Steady blue	Zeppelin on, iPod/iPhone selected
Steady green	Zeppelin on, AUX selected
Slow flashing blue	iPod is paused (Group D & E devices only)
Slow flashing green	AUX is muted
Rapid flashing blue	Volume changing, iPod/iPhone selected
Rapid flashing green	Volume changing, AUX selected
Rapid flashing white	Volume approaching maximum
Rapid flashing red	Volume at maximum or minimum
Single off/on blue or green	Acknowledge valid button command
Single flash red	Command not available
Continuously flashing red	Warning - if no button is being pressed, there is a system fault

Taking calls on an iPhone



If you have an incoming call while the iPhone is docked, the iPhone will ring through Zeppelin and mute the music.

The iPhone does not send call audio to the 30-pin docking connector, so you cannot hear the caller through Zeppelin.

To take the call, remove the iPhone from Zeppelin and replace it when the call is finished.

If you were playing music before the call came in, it will resume playing when you re-dock the iPhone.

Adjusting the sound

If you place Zeppelin with its back against a wall, the bass level is boosted, and more so if it is in a corner. Zeppelin's own bass output may be adjusted to compensate.

When you dock a Group D iPod into Zeppelin, an extra item called Speakers appears in its top-level menu. If you select this option and then choose Tone Control, you will get a list of Bass level options.

With Group E devices, tap the Settings icon on the touch screen. The Speakers item is added to the list, but is hidden below the bottom of the screen. Stroke the list upwards with your finger to reveal the hidden items on the list.

In the default position, **Bass 0**, the balance is adjusted for when Zeppelin is on an open table.

Bass -1 lowers the bass to match a single wall and **Bass -2** a corner. Personal preference is important too, so we provide extra settings at each end, **Bass +1** and **Bass -3**. Choose whichever sounds best to you. The change happens as soon as you highlight the option.

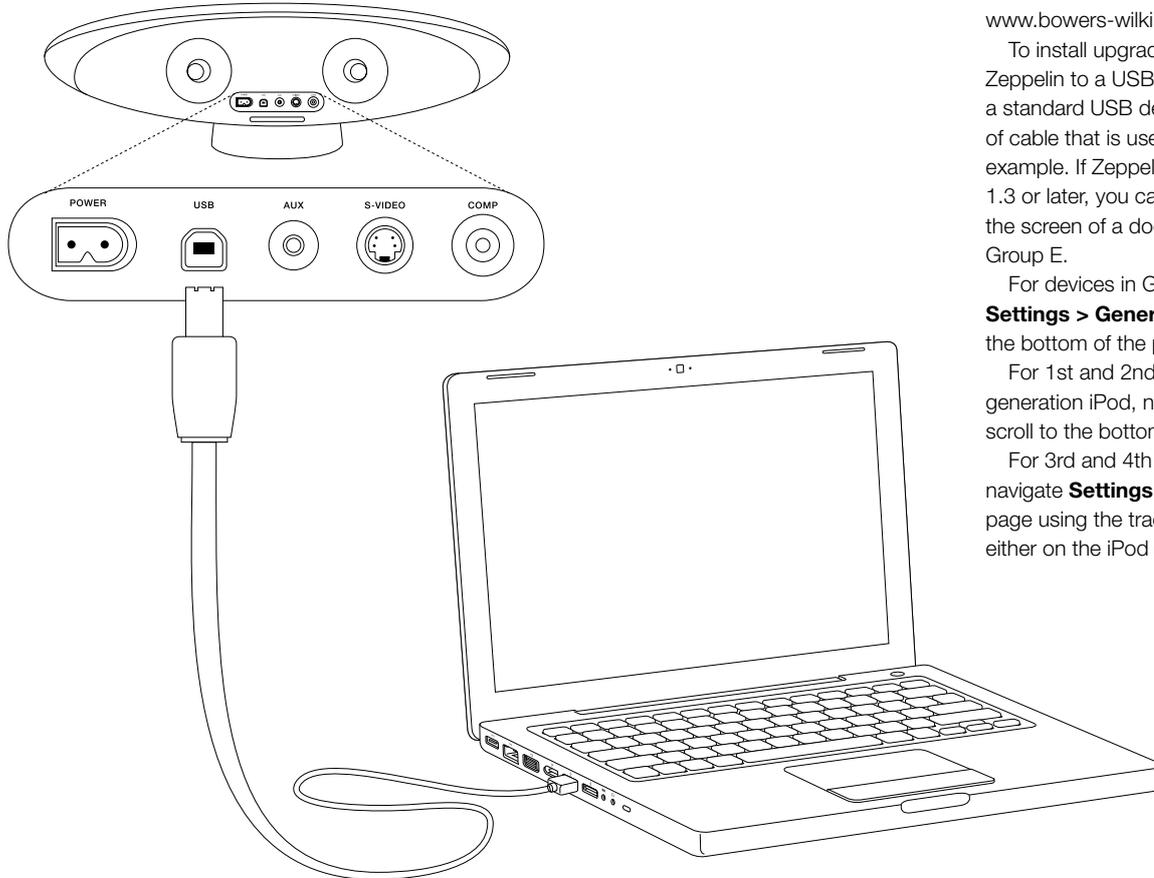
The selected EQ setting is retained for any other iPod you dock and to any second source connected to the AUX input. So, if you have an earlier model iPod, you can still adjust Zeppelin's bass by borrowing a Group D or E device and it will remain set for other models.

When using Zeppelin, we recommend that you turn off any EQ in the iPod/iPhone itself (**Settings > iPod > Music EQ > Off** for iPhone, **Settings > Music > EQ > Off** for touch or **Settings > EQ > Off** for other iPods).

Cleaning Zeppelin

Use a clothes brush or vacuum cleaner with nozzle attachment to clean the grille cloth. Wipe other surfaces with a clean lint-free cloth. If you wish to use a cleaning agent, apply it onto the cleaning cloth, not directly onto the product. Test a small area first, as some cleaning products may damage some of the surfaces. Avoid products that are abrasive, or contain acid, alkali or anti-bacterial agents.

Upgrading Zeppelin software



From time to time it may be necessary to update Zeppelin's software. Upgrades and instructions on how to install them will be posted on our web site: www.bowers-wilkins.com

To install upgrades, you will need to connect Zeppelin to a USB output on your computer using a standard USB device cable. This is the same type of cable that is used to connect USB printers, for example. If Zeppelin's current software version is 1.3 or later, you can display the version number on the screen of a docked iPod/iPhone of Group D or Group E.

For devices in Group E, navigate **Settings > General > About** and scroll to the bottom of the page.

For 1st and 2nd generation nanos and 5th generation iPod, navigate **Settings > About** and scroll to the bottom of the page.

For 3rd and 4th generation nanos and classic, navigate **Settings > About** and tab to the 4th page using the track forward or back buttons, either on the iPod or Zeppelin's remote.

Environmental information

All B&W products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE).

These symbols indicate compliance and that the products must be appropriately recycled or processed in accordance with these directives. Consult your local waste disposal authority for guidance.



Troubleshooting

If Zeppelin does not perform as expected, there may be nothing intrinsically wrong. Check through this table for possible remedial action.

Additional topics are covered in the Zeppelin FAQ section of our web site:
www.bowers-wilkins.com

A continually flashing red LED indicates a system fault.

Before calling for assistance first try rebooting Zeppelin by disconnecting it from the power supply for a minimum of 5 seconds and reconnecting.

Symptom	Possible cause
No LED	Power cord not properly plugged in or damaged. (UK, Ireland or Hong Kong only) Fuse blown in fused plug of power cord. Internal fault. Consult your dealer. Upgrade iPod/iPhone software
No sound from any source	Volume set to minimum
No sound on iPod/iPhone source only	iPod/iPhone not in play mode.
No sound on AUX source only	Zeppelin muted. AUX cable not properly connected or damaged.
AUX source takes several seconds to sound	Poor compatibility between TOSLINK™ cable and optical mini jack cable adaptor/converter. Dirty TOSLINK™ cable ends. Clean as recommended by cable manufacturer.
Track up/down commands do not work	Upgrade iPod/iPhone software.
Cannot control volume from iPod/iPhone interface	Upgrade iPod/iPhone software. (Group D & E devices only)
Speakers menu item does not appear when iPod/iPhone docked	Upgrade iPod/iPhone software. (Group D & E devices only)
Buttons on remote do not work. Zeppelin buttons OK	Infrared receiver on Zeppelin obscured. Battery not correctly seated. Battery insulating tab not removed. Battery needs replacing

Troubleshooting continued

Symptom	Possible cause
iPod does not respond to Zeppelin commands	iPod/iPhone badly seated on connector. Dirty or worn contacts.
Buttons on Zeppelin do not work. Remote OK.	Dirty or worn contacts. Consult your dealer.
Cannot output video images to TV	Upgrade Zeppelin software.
Cannot hear audio streamed from Internet	Upgrade Zeppelin software.
iPod/iPhone back light will not re-brighten	Re-boot iPod/iPhone and upgrade Zeppelin software.
iPod/iPhone alarm does not sound when docked	Upgrade Zeppelin software.
Source change between iPod/iPhone and AUX not reliable	Upgrade Zeppelin software.
iPod/iPhone freezes	Search "How to reset iPod" on the Internet.

Bowers & Wilkins

B&W Group Ltd
Dale Road
Worthing West Sussex
BN11 2BH England

T +44 (0) 1903 221800
F +44 (0) 1903 221801
info@bwgroup.com
www.bowers-wilkins.com

B&W Group (UK Sales)
T +44 (0) 1903 221 500
E uksales@bwgroup.com

B&W Group North America
T +1 978 664 2870
E marketing@bwgroupusa.com

B&W Group Asia
T +852 2 790 8903
E info@bwgroup.hk

iPod, Macintosh, Airport Express, Apple TV and Firewire are trademarks of Apple Inc. registered in the US and other countries. iPhone and Shuffle are trademarks of Apple Inc. TOSLINK is a trademark of Toshiba Corporation. Zeppelin is a trademark of B&W Group Ltd.