

Reviewer's Reference for Creative WP-450 *Bluetooth* Wireless Headphones with “Invisible Mic”



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An Overview

Premium grade wireless music and chats

Gone are the days when you have to carry a pair of headphones for music and a headset for hands-free phone calls. With the Creative WP-450 *Bluetooth*[®] headphones with "invisible mic", enjoy the best of both worlds with excellent audio quality thrown in. Featuring precise Neodymium drivers meticulously tuned by our acoustic experts, it is crafted to produce accurate and dynamic sound.

The built-in invisible microphone with WP-450's ClearSpeech Engine[™] suppresses external noise and digitally enhances speech clarity, allowing you to chat clearly over your mobile phone. When you're done talking, resume listening to your favorite tunes automatically. And because it has *Bluetooth* connectivity with apt-X, it delivers high-fidelity wireless audio from compatible *Bluetooth* devices, while keeping your hands free to do everything else!

Plus, you can easily fold the WP-450 for storing in your bag and bringing it wherever you go. It's the perfect stylish companion to accompany your ZiiO tablet, the latest wireless MP3 players such as ZEN Style M300, and many of today's smartphones.

The Creative logo is displayed in white capital letters on a dark grey background. The letter 'A' is stylized with a horizontal line passing through its center. A registered trademark symbol (®) is located at the top right of the word.

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Key Highlights

Durable metal-hinge design allows the WP-450's headband to be folded into a compact package for travel and storage. A soft travel pouch is included too for your convenience



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Key Highlights



Works with ALL compatible *Bluetooth* mobile audio devices such as music phones, iPhone, iPod, iPad or computers. Stream high quality content wirelessly from up to 10 meters or 33 feet



Incorporates apt-X *Bluetooth* audio technology that helps to deliver better audio performance with apt-X enabled devices such as Creative ZiiO Tablets or the new Apple iMac & Mac mini. It also delivers a faster transmission with negligible delay - virtually eliminating 'lip-sync' issues when using WP-450 to watch fast-action movies or gaming

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Key Highlights



FastStream codec allows smooth bi-directional audio + voice for Internet chats or in-game conversations with optional BT-W1 *Bluetooth* transceiver



A concealed microphone lets you pause your music and pick up a voice call seamlessly, without an interfering microphone boom jutting across your face. ClearSpeech Engine™ noise suppression plus audio and speech enhancement processing works efficiently in the background to deliver crystal clear voice calls, even under noisy and windy conditions

**INVISIBLE
MIC**

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Key Highlights



Infused with performance Neodymium drivers that are accurately tuned by in-house acoustic professionals to faithfully reproduce any music, movie or gaming audio. Your loved ones sound even closer on voice calls. Having a stronger magnetic flux to weight ratio, the powerful Neodymium magnet driver together with an ultra-lightweight diaphragm responds and delivers sound efficiently in a life-like manner - giving listeners a vivid and engaging listening experience

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Key Highlights



A perfect usage experience from its ergonomically placed call and playback controls, choice of high quality built material or right down to the ideal control timings, the WP-450 left nothing to chance. Every single detail was perfected through a broad and intensive regime of stringent tests for durability, compatibility, usability and of course, for the pure joy of just listening to these headphones

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Key Highlights



Intuitive call, playback and volume controls on the right earcup that are easily accessible for making adjustments on-the-fly

Lightweight on-ear design with a compact, foldable frame for ease of portability and storage. It weighs just like a bar of chocolates

Soft leatherette ear padding that allows for a comfortable use, even in extended marathon listening or chatting sessions

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Key Highlights



Easily charge the WP-450 from computers with an USB port. Helpful LED and audible indicators alert listeners when the headphones are in need of a recharge - it takes just about an hour, before you to take it on another spin for 8 more hours. It comes with a micro-USB cable for your charging needs as well

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Operational Details

Charging headset

- Connect the Left earcup to your laptop or computer using the supplied USB cable
- On the Left earcup, the indicator lights up in Red. When fully charged, this indicator turns Green
- You can listen and operate the headset while charging

Pairing new *Bluetooth* devices

- Press and hold the Multifunction button for more than 5 seconds on the Right earcup until the indicator lights up in Blue and blinking rapidly
- Turn on *Bluetooth* search function on your audio or mobile device
- Select “Creative WP-450 Headset” and if prompted for a Passcode, key in “0000”
- Once paired, the Blue indicator on the Right earcup blinks slowly
- Note that when pairing with a computer, connect the headset as a Hands-free Audio or Headset device instead of a Stereo Audio device in order to make use of the microphone function. If microphone function is not needed, it is recommended to connect as a Stereo Audio device for better playback performance. Certain *Bluetooth* solution detects the application that you are using and configures the microphone automatically. You are recommended to update your computer’s *Bluetooth* drivers to the latest.

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Operational Details

Playback from audio devices

- Turn on *Bluetooth* function on your paired audio device
- Press and hold the Multifunction button on the Right earcup until the indicator lights up in Green and blinks slowly. The headset automatically searches for the last paired device. Once connected, the indicator turns Blue and blinks slowly. In certain cases, you may need to press the Play button to establish connection
- You can now Play or Pause music playback, skip forward or reverse tracks, and make volume adjustments

Call functions with mobile phones

- Turn on *Bluetooth* function on your paired mobile device
- Press and hold the Multifunction button on the Right earcup until the indicator lights up in Green and blinks slowly. The headset automatically searches for the last paired device. Once connected, the indicator turns Blue and blinks slowly. In certain cases, you may need to press the Multifunction button to establish connection
- To activate voice dialling when no call is in progress, press the Multifunction button for about 1 second until the mobile phone starts voice dialling, and proceed as described in your mobile phone's user guide.

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Operational Details

- To redial the number you last called when no call is in progress, press the Multifunction button for 2 seconds and release
- To answer or end a call, press and release the Multifunction button. To reject a call, press the Multifunction button for 2 seconds and release
- To accept a call waiting and drop the ongoing call, press and release the Multifunction button. To accept a call waiting and put on hold to the ongoing call, press the Multifunction button twice. To accept a call waiting and join to the ongoing call (three-way call), press and release both the Multifunction and Volume Up “+” buttons.
- To mute or unmute the microphone during a call, press and release both the Volume Up “+” and Volume Down “-” buttons.
- To transfer an ongoing call between the WP-450 and your mobile phone, press and hold the Multifunction button for 2 seconds and release.
- Note that features such as voice dial, last number redial or three-way call are phone dependent

Clear or reset headset

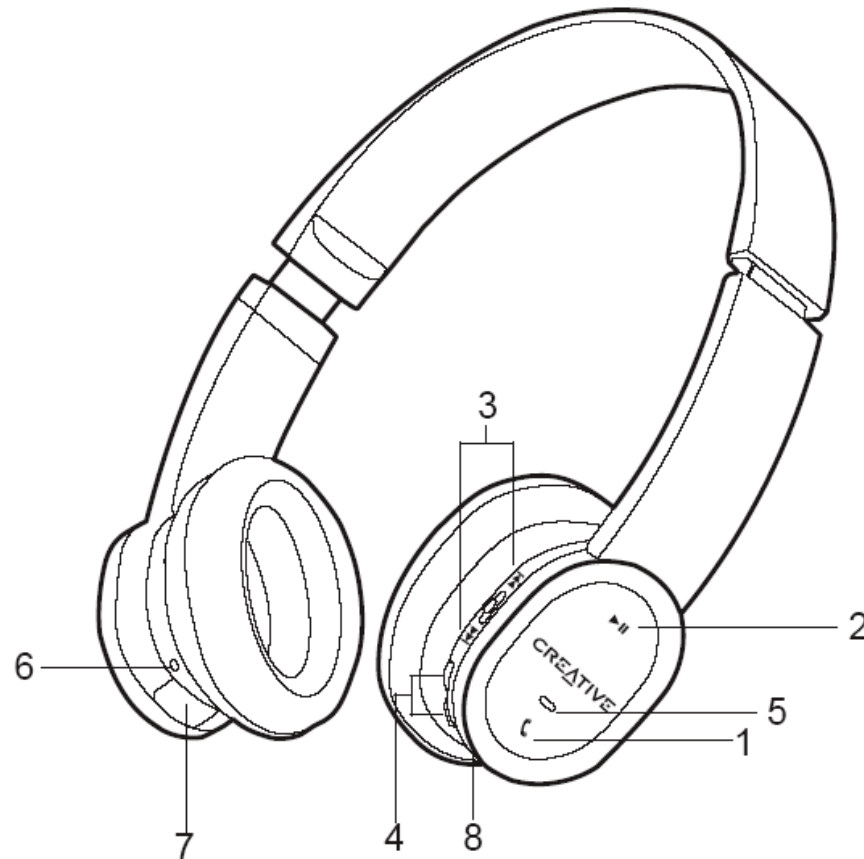
- Press and hold the Volume Down “-” and Multifunction buttons for more than 6 seconds to clear the paired *Bluetooth* devices
- If the headset malfunctions, reset it by supplying USB power, then press the Volume Up “+” and Multifunction buttons for about 1 second

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Operational Details

Automatic shutdown

- Once the headset is powered on, if it is unable to connect to the last paired device or failed to pair with a new device within 5 minutes, the headset will automatically shut down.



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Operational Details

List of button, indicator and connector / port functions

Button	Function
1  Multifunction (Power / Pair / Call)	Power: Press and hold for 2 seconds to power on the headset. Press and hold for 3 seconds to power off the headset. Pair: In off mode, press and hold for more than 5 seconds to activate Pairing mode. Call: Press and hold for 1 second to activate voice dial. Press and hold for 2 seconds to redial the last called number when no call is in progress. Press and release to answer or end an incoming call. Press and hold for 2 seconds to reject a call during an incoming call. Press twice to accept a call waiting and put on hold the ongoing call. Press together with '+' button and release to initiate a three-way call.
2  Play / Pause	Press to play. Press again to pause playback.
3  Next, Forward / Previous, Backward	Press to change to the next or previous track. Press and hold to scroll forward or backward a track (device dependent).
4  Volume Up / Volume Down	Press '+' to increase or press '-' to decrease volume. A beep tone is emitted at maximum volume level. Press and release both '+' and '-' to mute or unmute the microphone during a call.

Operational Details

Light Indicator		Function
5	Right earcup light indicator	Green and blinks slowly: automatically searching and attempts to connect to the last paired device. Blue and blinks slowly: connected to a paired device. Blue and blinks rapidly: in pairing mode and is ready to pair with a new device. Blue and flashes twice: muting microphone during a call. Red and blinks twice: powering off the headset. Red and blinks slowly: low battery level, charge the headset soonest. This is accompanied by a beep tone every 2 minutes.
6	Left earcup light indicator	Red: charging headset. Green: headset fully charged.
Connector / Port		Function
7	Micro-USB charging connector	Use the supplied USB cable for charging the headset via a laptop or computer.
8	Invisible Microphone	Noise suppression microphone for crystal clear communications

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Suggested Review Steps with a Notebook PC

- Prepare a notebook computer with installed media player and Skype for Internet communications. It should come with built-in *Bluetooth* connectivity; else, it is recommended to obtain a Creative BT-W1 *Bluetooth* transceiver which comes with microphone support
- Pair and connect WP-450 with the notebook computer as outlined in previous sections
- Play and listen to a media file on the notebook computer
- Now launch Skype to review voice communications. Call a contact that you know or just initiate Skype's "Echo/Sound Test Service"
- You will notice that the media playback has been paused for your voice communication
- Once you are done with the Skype call, you will notice that the media playback resumes
- For a better audio/voice quality calls, you may obtain a separate Creative BT-W1 USB transceiver. In the Skype voice call above, you will notice that the Creative BT-W1's light indicator turns to red, highlighting that the microphone/voice function is activated using the bi-directional FastStream codec that allows smoother Internet voice calls

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Suggested Review Steps with a Mobile Phone

- Prepare a mobile phone capable of media playback and ability to support three-way conferencing (if you wish to audition this function)
- Pair and connect WP-450 with the mobile phone as outlined in previous sections
- Play and listen to a media file on the mobile phone
- Now from another phone, place a call to the mobile phone
- You will hear an audible tone in your WP-450 indicating an incoming call. Press the multifunction button to accept the call
- You will notice that the media playback is paused for your voice call
- Once you are done with the call, the media playback resumes
- Repeat above steps for a conference call as outlined in the user guide

Troubleshooting

If you cannot connect the headphones to your *Bluetooth* audio device or mobile phone, do as follows:

- Ensure that the headphones are charged, switched on, paired with, and connected to your *Bluetooth* device.
- Ensure that the *Bluetooth* feature is activated on your device.
- Check that the headphones are within 10 meters / 33 feet of your device and that there are no obstructions between the headphones and the device, such as walls or other electronic devices.
- To reset the headphones if it stops functioning (although it is charged), supply the headphones with USB power, then simultaneously press and hold both the Volume Up “+” and Multifunction buttons for more than 6 seconds (Note however, this reset does not clear your paired device settings).

Troubleshooting

Poor or choppy audio quality when listening to music on the headphones with a computer:

- Ensure that you are within 10 meters / 33 feet from your computer
- Connect as a *Bluetooth* Stereo Audio device if you do not need to use the microphone
- Update your computer's *Bluetooth* drivers to the latest.
For example, this link:

<http://www.broadcom.com/support/bluetooth/update.php> for a computer with Broadcom's embedded *Bluetooth* solution

Troubleshooting

If you cannot connect the headphones to your paired audio device:

- The headphones automatically connects to your last paired device (e.g. a laptop). If this device is within 10 meters / 33 feet of another device that you wish to connect (e.g. a phone), ensure that the *Bluetooth* feature of the last paired device (laptop) is turned off.
- Next connect to your desired paired device (e.g. a phone)
- Note that the headphones can only connect to one *Bluetooth* audio device at a time.

Troubleshooting

- If the audio quality is not matching CD quality, check if your device supports streaming of apt-X *Bluetooth* audio. If it does not, you can separately purchase apt-X *Bluetooth* audio transmitters such as the Creative BT-D1 or Creative BT-W1 (for USB audio devices such as a laptop or computer) or Creative BT-D5 (for iPad, iPhone or iPod) to deliver superior audio performance.



Wireless audio for your computer

Don't fret even if your computer doesn't have *Bluetooth* built in. Give it wireless audio streaming capabilities with the Creative BT-D1 or Creative BT-W1 (with microphone support) *Bluetooth* USB transmitters (sold separately).



Use with your iPad, iPhone, or iPod

Want to enjoy superior *Bluetooth* stereo music from your iPad, iPhone, or iPod? Simply plug in the Creative BT-D5 *Bluetooth* transmitter (sold separately) and transform them into your wireless remote control!

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Troubleshooting

- If the audio + voice quality from Notebook PC's built-in *Bluetooth* connectivity is poor, you can separately obtain a Creative BT-W1 USB *Bluetooth* transceiver. This comes with smooth bi-directional support for audio + voice from FastStream codec.



Exclusively designed for Creative's range of wireless headphones with "invisible microphone" such as Creative WP-450, the Creative BT-W1 USB transceiver wirelessly streams high fidelity stereo music to and delivers crystal clear voice calls from your PC or Mac. You will experience CD quality and low latency apt-X *Bluetooth* audio; or bi-directional FastStream audio with voice for Internet chats and in-game verbal commands. Installation is totally fuss-free and requires no software - just plug in and enjoy a new level of enhanced *Bluetooth* audio capability.

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Specifications

- Driver: 34mm Neodymium magnet
- Frequency Response: 18Hz ~ 22kHz
- Impedance: 32ohms
- Wireless Technology: *Bluetooth* 2.1 + EDR (Enhanced Data Rate)
- *Bluetooth* Profiles: A2DP (Wireless stereo *Bluetooth*), AVRCP (*Bluetooth* remote control), HSP (Headset profile), HFP (Hands-free profile)
- Audio Codec: apt-X, SBC, FastStream
- Operating Range: Up to 10m / 33ft
- Microphone: Built-in omni-directional microphone
- Power Supply: Rechargeable Lithium Ion battery, 3.7V, 240mAh
- Charging time: 1 hour
- Playback time: 8 hours
- Talk time: 9 hours
- Net Weight: 114g / 4oz

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