

# Learn about Kindle Paperwhite book reader

Kindle Paperwhite is a really special technology product and is changing our print publishing industry as well as our reading habits.

Imagine you're on vacation, lying on the beach sunbathing and not in the mood for swimming. You think you should get some love novel for less boredom. But after a while of thinking, you feel more like detective books. An hour later, you decided to switch to a food newspaper to see what you should eat tonight. You see, our reading habits also depend a lot on the mood and circumstances. If you keep the habit of reading traditional paper books, perhaps before you go far away you will have to bring a suitcase of books! It is not so pleasant. But now, you can bring with you a huge library that is only small and light with a medium-sized computer, thanks to a device called an e-book reader, and Kindle Paperwhite is one of the most prominent names.



Paper books certainly have their own charm. Many people told me that they like to grasp, look and flip through the pages of the books they love, and some even say that they simply like the fragrance emanating from the pages. These are all very legitimate reasons but there is one weakness that even those who love paper books the most must admit, it is sometimes paper books are too cumbersome. Take a simple example with light-weight books like novels by writer Nguyen Nhat Anh, for example, there is no problem when you bring a few books with you. But in contrast to works with a thickness of up to 700, 800 pages or more, carrying a volume is also a problem

However, for modern electronic reading devices like today, everything is different. You can carry thousands of books at once and easily switch from one book to another as quickly as you want. They are even a savior in many situations.

Today, we are inclined to move everything, just carrying with us the tiny 'computers' in our pockets in the form of smartphones. This device is fully integrated with the necessary features from entertainment to work, so it can be said that the convenient e-book reading tools are no longer exciting new technologies. Most phones are integrated with many e-reader applications for users to choose from. However, the reality is that smartphones can do many things but not the best. In terms of reading, for example, a dedicated e-book reader will do better to serve users' reading needs than mobile phones because it is simply born to do that. E-ink reading devices use E-Ink display technology, which is known as a technology that mimics the look and reflective properties of paper more optimally than phones, tablets or computer screens. usually, common, normal.

Amazon Kindle readers have been around since 2007 and there have been a number of appearance updates since it was first introduced. As of spring 2013, the latest generation of Amazon Kindle is Kindle Paperwhite, released in October 2012. This is a leap of e-book technology. The most obvious change on Paperwhite is that the manufacturer has added an integrated light source on the display. All previous Kindle models (excluding Fire, like a tablet rather than an electronic reader) require an external light source, like you need to read a regular book. But with Paperwhite, you can read anywhere under any lighting conditions. You can read books before going to bed without turning on the lights.

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## **Specifications of Kindle Paperwhite**

Kindle Paperwhite (2018 version) has a high, wide, thick size of 6.6 "x 4.6" x 0.32 "(167mm x 116mm x 8.18 mm). The WiFi version only weighs 6.4 oz (182 grams) and the version is available. Heavy weight 6.8 oz (191 grams) due to the addition of internal hardware.

Paperwhite version only has WiFi that can connect to Wi-Fi 802.11b, 802.11g or 802.11n networks and supports WEP, WPA, WPA2 or WPS security (Wi-Fi Protection). The 4G version can connect via mobile WiFi or 4G, 3G networks and is compatible with mobile networks in dozens of different countries around the world. Unlike most 4G devices, you will not have to pay a monthly fee for this service. It is provided by Amazon for free.



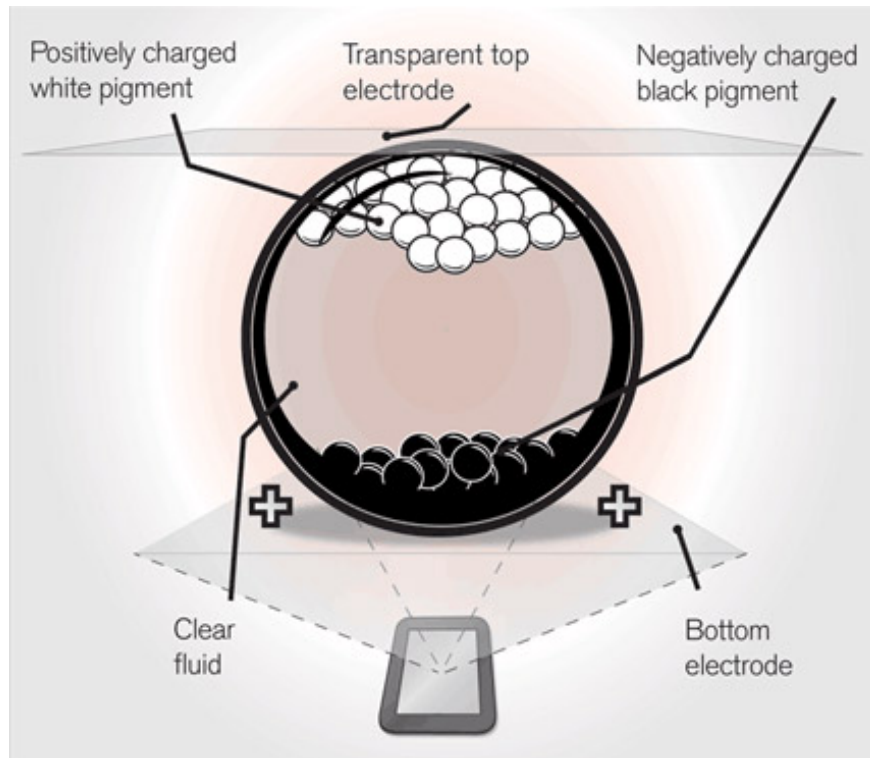
Aesthetically, the color of the case has been changed from a dark gray to black and white, the screen is from gray to white. The shell is plastic and the back is made of rubber to avoid slipping. The 6 inch (15.2 cm) Paperwhite screen is diagonal, like other Kindles devices.

Paperwhite supports multi-point capacitive touch screen. The home button on the front has been omitted, so now there are only two places for you to interact with that device, the touch screen and the power button at the bottom of the device next to the power indicator LED (go - glowing light). To turn on and wake up the device, press the power button, then swipe the screen.

Also at the bottom of Paperwhite is a micro-USB port to connect the device to a computer or other USB adapter for charging. You can move Paperwhite content to another device by connecting to your computer, the content in all current Kindle is automatically stored through Amazon cloud service and can be downloaded at any time, completely free of charge and without any wires. Kindle Paperwhite comes with micro-B USB 2.0 cable. The charger is similar to some other Kindle and is available as an optional purchase and is not included with the device.

Paperwhite's storage capacity (at launch) is technically 2GB, but only 1.25GB you can use to store downloads. Unfortunately, there is no way to expand the memory on the device, but with Amazon's free cloud storage, you can delete and reload your content as you wish, as long as your device is Connected to WiFi or 3G, 4G networks. Amazon estimates that you can store more than 1,100 books on Paperwhite.

Like all Kindle devices, Paperwhite uses E-Ink display technology, which uses black and white microscopic particles to display text and images on the screen. The particles are contained in small balls, with a series of electrodes below. Black particles are negatively charged and white particles are positively charged. When a negative charge is applied to the small sphere, it pushes the black particles onto the surface, causing the area to appear black on the screen. A positive charge repels the white particles, effectively removing "ink" and making the area appear white. These spherical and electrode particles can also be used to draw 16-level gray scale images. Combined with the matte screen surface, E-Ink will make the display text very smooth and easy to read similar to a real book rather than the text on the computer screen.



Paperwhite has a screen resolution of 768 x 1024 pixels, with 212 pixels per inch (PPI). Paperwhite also incorporates a front lighting LED display. The device's lithium polymer battery is estimated for up to eight weeks of use in case you keep the screen brightness at level 10 (out of 24), only use it for 30 minutes a day and turn off all Wireless connection when you are not in use. Other usage habits may drain the battery faster, but one thing is certain: Kindle can 'live' longer on a single charge than a regular phone, tablet or laptop, right away, even when used a lot.

## Front lighting screen

The most innovative technology on Kindle Paperwhite is Amazon's front lighting screen called "light guide" technology. The display on Paperwhite will consist of three layers: E-Ink screen (inner layer) same), capacitive touch screen (middle) and light navigation layers (top) The responsible display layer is still the same as the previous Kindle screens, but with resolution and contrast The multitouch screen is a step up from the Kindle Touch's infrared touch screen (IR), and light navigation is an entirely new technology.



There will be four tiny LED bulbs installed in the bezel at the bottom of the device screen. These tiny LEDs point towards the screen and the light guide layer will be responsible for dispersing light across the entire screen. This top layer has been described by Amazon as a flat fiber cable like a sheet of paper. It is imprinted with what they call "nano-ray diffraction patterns" that direct light across the screen and make it emit in certain areas, delivering it as uniformly as possible to the screen. The light layer will change as it moves away from the light source in a way that ensures near-uniform distribution despite the fact that they all come from the bottom of the screen.

Lamps commonly used on conventional equipment also consume quite a lot of power, but low power LED lamps and techniques to use them effectively will save a huge amount of power, reducing the pressure on the battery. You can choose from 24 different brightness levels and even the lowest, still can read the information on the screen. The LED turns off only when you turn off the device. This light source allows you to use Kindle Paperwhite effectively in many different situations. No other device on the market at the time of Paperwhite launch was equipped with this technology, although there are other e-book readers with light-screen screens.

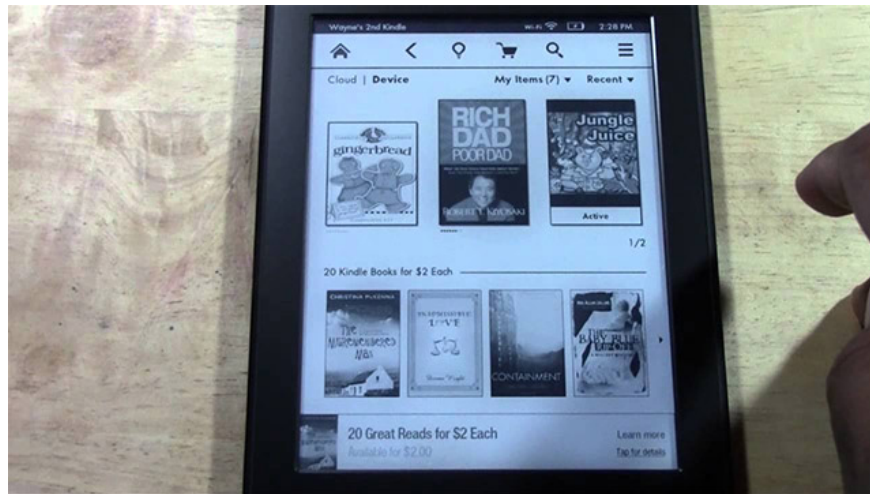
Amazon and fans of the technology claim that E-Ink screens are easier to see than LCD screens that often have LED lighting the light towards your eyes. Amazon also stated that with Paperwhite, the paper-like nature of the E-Ink display is maximized, because the light guide feature shines light into the screen instead of going out. But there is still some debate about this issue, and studies have yet to find a certain link between the LCD and eyestrain. Modern LCD panels seem to have refresh rates even faster than our eyes can detect. Some people say they have no more difficulty reading on LCD tablets than the computer screens they see every day. And a recent study shows that reading on E-Ink and LCD devices creates similar eye fatigue, and image quality and resolution can affect more fatigue levels. What is the eye instead of the screen type.

However, in fact the screen on the phone, the tablet has a lot of glare due to their glossy screen, making reading a little more difficult.

## **User interface and features**

In addition to the obvious hardware similarities, many new features are brought onto devices Kindles in early 2013 launches. These features include access to Amazon's Whisprnet service for download. content, eliminating the need to download content via computer. Whispersync allows Kindle to sync with your last read

page on multiple devices (applicable when you have a Kindle device and Kindle apps on your computer and smartphone). From Kindles, you can even surf the Web (although the speed is relatively slow).



But there are a few more features that make Kindle Paperwhite different from its predecessors. One is a slick graphical interface that displays your bookstore as well as potential sales deals, such as book cover icons instead of the list of written items as before. Since the only way to communicate with Paperwhite is just the power button and touch screen, you must navigate Paperwhite through the screen icons and touch different parts of the screen to make selections and switch Page.

If you are in a book, touching the top of the screen will return icons on the toolbar, touching a thin strip on the left will bring you back to a page and touch anywhere on the side must strip it (the rest of the screen) will help forward a page. You can also swipe the screen from right to left to return to the front page and from left to right to the next page.

Toolbar includes the following virtual buttons:

1. **Home** (home-shaped icon): This virtual button will take you back to Paperwhite's main screen. The main screen will display your library, which is a combination of each book being stored. There is also a row of Singles Kindle (book icon but smaller) at the bottom to display shopping suggestions with ads. You can choose not to show ads on the condition that you pay \$ 20 to Amazon.
2. **Back** (left arrow): This button will take you back to the previous page.
3. **Screen brightness** (light bulb icon): Screen brightness button allows you to adjust brightness from level 1 to 24.
4. **Kindle Store** (cart image): Touch this icon to buy a book, to buy a book, your device must be connected to the Internet via WiFi or 3G, 4G.
5. **Search** (magnifying glass icon): This button helps to perform various search tasks, including searching in a book page, Kindle store, dictionary and Wikipedia. When you click on the search button, a virtual keyboard will also appear for you to enter text.
6. **Menu** (three dash lines): Clicking this button will display different lists depending on the task you are performing at the time of pressing the button (while reading a book, on the main screen or in other sections). . It allows you to do things like change settings and surf the web in a test browser.

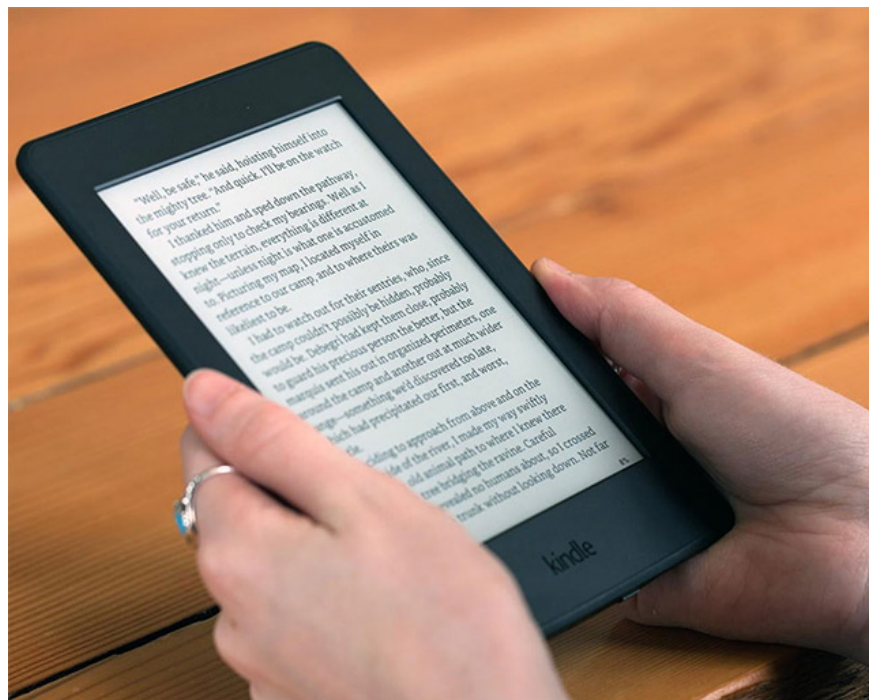
If you click on the top of the screen while reading a book, there is a secondary toolbar appear below the main toolbar, including the following icons:

1. **Aa: The** notation of the text, allows you to adjust the size and font style, as well as the line spacing and alignment.
2. **Go To** : allows you to navigate to different location options, such as specific pages or chapters, depending on the selection of content.
3. **X-Ray**: Open the X-Ray feature if the content on the site supports this feature.

Other new features:

1. You can translate selected words into other languages ??through Bing compiler.
2. The Time to Read feature will collect and analyze your reading habits and may give an estimate of how long you will read a chapter or book.
3. The X-Ray feature allows you to view a graphical representation of all segments related to a number of characters, places or topics that appear on a page, a chapter or an entire book and allows you to search information about these items. However, not all titles on Kindle support this feature.
4. Especially Amazon has equipped for Kindle Paperwhite new version 2018 water resistant IPX8.

## The difference between Kindle Paperwhite and the previous generation Kindle (at the time it was launched)



As of the time of Paperwhite launch, other Kindle versions are on the market including the basic Kindle for \$ 69, Kindle Keyboard 3G for \$ 139, Kindle Paperwhite for \$ 119 and Kindle Paperwhite 3G for \$ 179. Paperwhite is slightly smaller than the Kindle Keyboard 3G and slightly larger than the basic Kindle. Kindle Paperwhite is quite similar to the Kindle Touch currently inactive in both size, appearance and functionality, and there are only a few key differences.

As its name suggests, the Kindle Keyboard 3G has an integrated physical keyboard. The basic, cheapest Kindle has a 5-way controller below the screen to navigate. Both also have page forwarding buttons and page back

buttons on either side of the device to flip document pages. Kindle Paperwhite has removed all of these buttons to optimize the touch screen interface.

The Kindle Touch is the first touchscreen Kindle, and Paperwhite has completely replaced it. Paperwhite has a multi-point capacitive touch screen, while the Touch has a less sensitive IR (IR) touch screen. Paperwhite's bezel border is also a bit thinner because there is no longer a built-in IR transmitter to detect your hand movement on the screen. The new capacitive touch screen has much in common with the touch screen of most tablets, and may be the result of Amazon's acquisition of Touchco multi-touch hardware manufacturer in 2009.

Paperwhite's screen resolution is also significantly improved, with pixel density reaching 212ppi, greatly improving the user experience compared to other versions.

Of course, the biggest advantage of Paperwhite compared to previous versions was that it was an E-ink screen. In addition, unlike previous versions, Paperwhite can switch between vertical and horizontal views.

But not all changes are improvements. Kindle Paperwhite has been omitted from speakers and audio jacks compared to previous models like the Kindle Keyboard 3G, Touch and some other models have stopped working. This means you can no longer listen to audio books or let your device read digital books via text-to-speech. Memory is also slightly reduced compared to Touch and Keyboard, from 4GB to 2GB. It should be noted that this data is at the time of Paperwhite's first launch, while in version 2018, this device supports internal memory of up to 8 GB or 32 GB.

## **Differentiate Kindle Paperwhite versions**



Kindle Paperwhite

Kindle Paperwhite 2

Kindle Paperwhite 3

## Kindle Paperwhite 1

1. Production year: 2012
2. Other names: Kindle Paperwhite gen 1, Kindle Paperwhite 5th generation
3. Front: white letters Kindle
4. On the back: Kindle has the word above
5. Screen resolution: 212ppi
6. Internal memory: 2GB

## Kindle Paperwhite 2

1. Production year: 2013 - 2014
2. Other names: Kindle Paperwhite gen 3, Kindle Paperwhite 6th generation
3. Front: white letters Kindle
4. Back: above with the word Amazon
5. Screen resolution: 212ppi
6. Internal memory: 4GB (Japanese version), 2GB (other countries)

## Kindle Paperwhite 3

1. Production year: 2015-2018, this is the latest Kindle Paperwhite generation at this time

2. Other names: Kindle Paperwhite gen 3, Kindle Paperwhite 7th generation
3. Front: Black Kindle
4. Back: above with the word Amazon
5. Screen resolution: 300ppi
6. Internal memory: 4GB

## summary

Amazon Kindle readers are really changing the reading habits of many people. With the ability to store thousands of books, newspapers and magazines, you can read books anywhere.

In addition, if you are a good English speaker, Amazon Prime is a service you should register for a trial. Once you have signed up for Amazon Prime, you will be able to access and read hundreds of thousands of books on Amazon with a relatively small monthly fee.

It is no coincidence that Amazon Kindle products have continuously become the best-selling gift in the US in recent years. It is a really special technology product and is changing our print publishing industry as well as our reading habits.

See more:

1. 5 features on Kindle you may not know yet
2. Learn about how the CPU works
3. Find out how SSD drives work
4. How does every week read - understand a book?

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