Note
Mee

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E Ink MeeNote ePaper Notebook

Driven by computer or smartphone,
plug-and-play, and easy-on-the-eyes.

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Handwriting fuels humans' thinking and communication, and in numerous studies, it has been shown as closely linked with retention of information in a learning environment. Throughout time we have evolved from writing on clay and stone, to animal skin and parchment, to paper. In the modern world, we have software that can take handwritten notes and digitize them for search, or to translate text to writing. But writing is still a fundamental core of our learning experience, both in terms of memory and retention, and in its easy of use and familiarity.

MeeNote Introduction

The E Ink MeeNote™ (Mobile Expandable ePaper Notebook) is a device that allows you to extend your desktop or mobile device so that you can read and write with ease, and through its USB connection, share those notes back to your smartphone or computer. In addition, you can use it as an auxiliary screen by mirroring what is on your devices.

Through the MeeNote's EMR handwriting function, you can make any Android or Windows based system a note taking device; annotating on your Word or PowerPoint documents, and sharing those notes with colleagues or students easily and quickly. No longer do you need to print out a document, write on it, then scan it back in. The handwriting function is as close to writing on real paper as one can get with a digital device; there is little "lag" time between the pen and capture, and it is precise in its tracking of your pen movements.
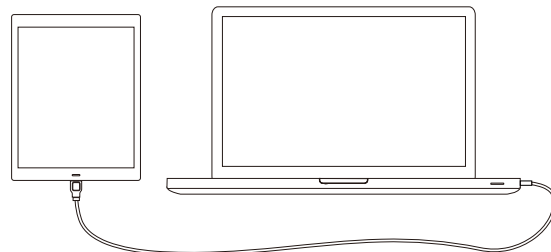

support Android 8.0 above

support Windows 7/10
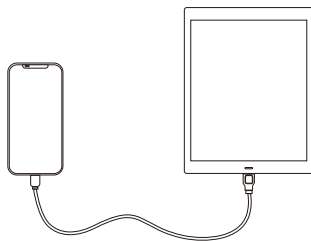
Smartphone, Tablet

Computer, Laptop

Benefits of Using ePaper For Reading and Writing

E Ink's ePaper is made up of millions of tiny microcapsules, each about the diameter of a human hair. Each microcapsule contains negatively charged white particles and positively charged black particles suspended in a clear fluid. When a positive or negative electric field is applied, corresponding particles move to the top of the microcapsule where they become visible to the viewer. This makes the surface appear white or black at that spot.

In an E Ink display, no backlight is used; rather, ambient light from the environment is reflected from the surface of the display back to your eyes. As with any reflective surface, the more ambient light, the brighter the display looks. This attribute mimics traditional ink and paper, and users of E Ink displays have said that they do not have the same eye fatigue as with LCDs when reading for long periods of time. These same benefits are at work in the MeeNote, making long editing sessions easy on the eyes, and giving you an excellent writing experience.

Features and Advantages of MeeNote

Easy to use handwriting functions

The mirror function of the MeeNote makes it an ideal device for annotation on Office documents, and in depth editing. While there are many LCD based tablets on the market today that offer handwriting features, many people dislike the experience of writing on an LCD tablet – the screens are smooth glass and there is no "drag" similar to a pen on paper. The MeeNote surface gives you a more natural writing experience, and in combination with your laptop, gives you the impression of writing on a notepad, then seamlessly digitizing that content.

Plug and play, with support for Android and Windows systems, making for easy document management

There are many E Ink ePaper eNote devices on the market today, which function as standalone devices. However, with a few exceptions, these devices typically have a closed or semi-closed software system that necessitates a transfer from the device to your computer, and then to a sharing system. With the MeeNote, the display is connected directly to your computer or handheld device, so the documents are stored locally on your device, making transfers seamless and quick. And, since the MeeNote mirrors your device, you can also use it as a second monitor.

A bigger, more comfortable screen

The MeeNote is offered in a 10.3" size; slightly larger than an 8.5" x 11" sheet of paper, and the same size as A5 paper. This larger size means documents are displayed in their 'true' size, making for easy, comfortable reading.

Common interface, lower cost

The eNote and ePaper Smartphones on the market today start at $300 USD and go up from there. Since the MeeNote does not have an SOC (System on a Chip) and it is driven by a computer or a smartphone via a USB cable, we can pass the electronics' cost savings onto our customer.

MeeNote User Scenarios

Long form reading is easy on the eyes

Most eReaders on the market today have a closed content system, which only supports their own eBook store content. If readers want to download a book from another eBook store, they will need to have a device that works with that store. Many of those eReaders support reading on a tablet or phone as well, but these LCDs are "emissive displays", meaning the light from the LCD backlight is projected through the display towards your eyes, and can contribute to eye strain, dry eyes, and blurred vision problems.

However, the MeeNote, connected to your computer or smartphone, can support reading of any eBooks available online, which is then mirrored onto the device. The MeeNote is lightweight and easy to carry, and can enable long form reading, without the eye strain.

Homework and online learning

Education has largely moved to an online, or hybrid in-school / online experience after COVID-19. Most of these online learning systems have been developed and are run on Windows or Android systems, and students use a tablet or laptop to do school work from home.

With the MeeNote, a student can take the PDF or online documents, such as through Google Docs, and mirror it onto the device. Now notetaking, test-taking and homework can be done by hand and it is synchronized to their computer or tablet. These documents can then be quickly sent back to the teacher directly, or loaded into the online system. This tethered method avoids the need for any special apps or software connections to enable an ePaper eNote, and is an efficient way to connect the tactile benefits of handwriting, with the need for digital document management. XODO PDF and Kami handwriting apps work smoothly on the MeeNote.

Work from home and in the office

Evernote and OneNote applications are common for many office workers for taking and managing their notes, and they have tried to replace the traditional paper notebook. However, writing on LCD based tablets, or on small mobile phones can be difficult and don't give the same user experience as paper.

The MeeNote offers a writing experience that is similar to that of pen on paper, and with its larger size, it is a natural fit for office documents, allowing them to be viewed full size. The tether feature allows workers to annotate and share documents quickly with each other, without extra software extraction steps and it works seamlessly with Evernote, OneNote and the Office suite.

Signature documents for government, bank, hospital and more

In many government, bank and hospital settings, people must sign in at a desk, and this often involves filling out paperwork, or signing printed paper. Some facilities have tablets available for this purpose, but they are often smaller than a full sized sheet of paper, and require frequent charging. The writing experience is often done with a fingertip, giving inaccurate signatures and typing.

MeeNote, connected to a computer, can be an easy way to deploy digitization of these records. People can write and fill in information easily, and since it leverages already existing software systems, an organization can easily roll out devices as needed, without creating a new system or infrastructure.

MeeNote System Introduction

Hardware and features

The MeeNote does not utilize an SOC (System on a Chip) but is instead driven by a computer, tablet or smartphone through a USB tether. The MeeNote is equipped with E Ink's TCON T1000, which drives the 10.3" ePaper display and process related signals. The hardware architecture is simple, easy to realize and cost-conscious.

Software framework and features

MeeNote not only mirrors your computer, but it can also process and support:

- ePaper image algorithms and smart display mode detection
- Different ePaper waveforms
- EMR digital pen or touch
- Gamut and Contrast Ratio can be adjusted based on different software or app

MeeNote Reference Design Specification

Dimension	L x W x H mm	243 x 174 x 6 mm
	Weight (g)	< 160g (without battery)
Chipset	ePaper Controller	T1000
Display and Touch	Display size	10.3 inch
	Resolution	1872 x 1404
	Touch panel type	Capacitive
	Pen type	AES Pen / EMR
Connectivity I/O	USB Type (Data In/Out)	USB 2.0

How to Work with E Ink

E Ink is offering hardware and software reference design and technical consulting.

If you are a system integrator, you can extend and revise the design concept based on the reference design E Ink is offering, reducing the go-to-market time from PCB and APP development.

If you are an end-application company: E Ink can introduce a system integrator to provide best solution for design-in.

Contact Us: https://www.eink.com/contact_sales.html

About E Ink

E Ink Holdings Inc. (8069.TWO), based on technology from MIT's Media Lab, has transformed and defined the eReader market, enabling a new multi-billion dollar market in less than 10 years. E Ink's low power products are ideal for IoT applications ranging from retail, home, hospital, transportation and more, enabling customers to put displays in locations previously impossible. The Company's corporate philosophy aims to deliver revolutionary products, user experiences and environmental benefits through advanced technology development. This vision has led to its continuous investments in the field of ePaper displays as well as expanding the use of its technologies into a number of other markets and applications including smart packaging and fashion. Its Electrophoretic Display products make it the worldwide leader for ePaper. Its Fringe Field Switching (FFS) technologies are a standard for high-end LCD displays and have been licensed to all major liquid crystal display makers in the world. Listed in Taiwan's Taipei Exchange (TPEx) and the Luxembourg market, E Ink Holdings is now the world's largest supplier of ePaper displays. For more information please visit www.eink.com.