

Xpaper SmartWrite Overview

Xpaper SmartWrite is a groundbreaking digital writing system that automates the digital capture of handwriting and instantly creates crystal clear PDF copies of any document that is printed and written upon.

Xpaper SmartWrite accomplishes this through the unique combination of digital writing technology and the Xpaper Printer virtual print driver.

Xpaper Digital Writing

Xpaper Digital writing technology consists of real, physical paper and a real, physical ink pen, both of which have been enhanced to allow for the automatic capture of handwriting.

Each page of Xpaper SmartWrite digital paper is covered with an array of tiny dots – nearly three-quarters of a million dots on a letter-sized page. These dots are precisely positioned in relationship to one another, so that the resulting digital pattern is different and distinguishable at every different point on the page.

Further, each Xpaper SmartWrite page is unique, so the same digital pattern **is not repeated** on each page. Instead, Xpaper SmartWrite's digital pattern is **different at every point on every page**. This provides Xpaper SmartWrite users with great flexibility, and adds a high level of confidence and authenticity to the process.

The other part of digital writing is a digital pen. In addition to working like a normal ballpoint pen, a digital pen has a tiny camera at its tip. This camera gets activated every time the pen senses pressure on its tip, indicating that the user is writing on something, and begins taking dozens of pictures per second.

When writing on a piece of Xpaper SmartWrite paper, the pen's camera captures images of the Xpaper SmartWrite digital pattern. And because the digital pattern is unique at every point on every page, the digital pen knows exactly which page it is writing upon, and where on that page.

Xpaper Printer virtual print driver

Another key component of Xpaper SmartWrite is the Xpaper Printer virtual print driver. The print driver captures a digital copy of any document as it is printed, and then stores it as a searchable PDF. The print driver also forwards the print job onto an installed Windows printer of the user's choosing, where the document is printed onto an Xpaper SmartWrite page.

Xpaper SmartWrite Software

At the center of the Xpaper SmartWrite digital writing system is the Xpaper SmartWrite software, which helps automate this entire process of capturing and merging print jobs and digital writing.

The software runs on most typical Windows 2000 and XP computers. An available USB port is required, providing the digital pen a place to download and recharge.

To use the Xpaper SmartWrite software, the user simply tells the software which physical printer will be used and which pages of Xpaper SmartWrite paper are loaded into the printer (each Xpaper SmartWrite page is individually numbered, and the paper is packaged and delivered sequentially). Then, the user prints documents just like normal, selecting the Xpaper Printer virtual print driver from the Windows printer list.

As jobs are printed, Xpaper SmartWrite captures each page digitally and stores it in the software in association with the Xpaper SmartWrite digital page address used. Then, when a digital pen writes on that page and is later docked in its USB cradle, Xpaper SmartWrite merges all of the digital ink onto the correct print image, and instantly creates a PDF that is a perfect copy of the physical document.



Xpaper



Putting paper to work.

The Xpaper SmartWrite software also functions as a mini document management system, organizing the user's digital writing documents, both with and without digital ink. Through the simple to use interface, the user can easily manage digital documents by moving, copying, printing, emailing or exporting to other systems.

Some key features of the Xpaper SmartWrite software:

- Works with any Windows software and printer
- Handy Favorites folder for regularly used documents
- Key document properties stored (Pen ID, Ink date/time, Print date/time, Page address, etc.)
- User-defined document categories and keywords
- Search, sort and filter documents by document properties
- Save, email or export documents with one click

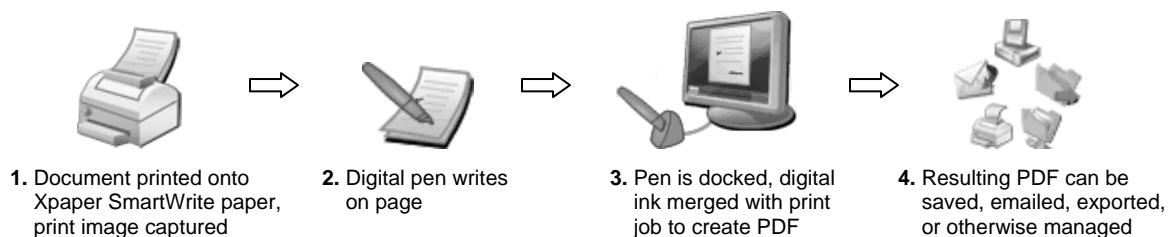
Advanced Uses

Searchable PDF: A key strength of the Xpaper SmartWrite digital writing system is that the printed portion (the computer generated text) of the resulting PDF is searchable, and is not just an image. This allows for quick retrieval of important documents with simple tools, such as Google Desktop, and can provide vital indexing information to simplify integrating the PDF into another document management system.

Pre-Printed Forms: For high-volume form usage, Xpaper SmartWrite can also be used with pre-printed forms. This allows local printing to be bypassed, and makes other form binding and finishing options available.

Xpaper Connector API: To automate and simplify integration with other systems, an Xpaper Connector API is readily available, making it easy for a third party developer or integrator to export the Xpaper SmartWrite PDF, and its associated file properties, to another system.

Typical Xpaper SmartWrite Flow



Deployment Options

Xpaper SmartWrite is available in two different configurations – **Standard** and **Professional**.

Xpaper SmartWrite Standard is for the standalone user who will be printing and using a pen from a single computer, and requires that pens be docked on the same computer that printed the documents that were written upon.

Xpaper SmartWrite Professional is for users who work in team or networked environments, and allows pens to be docked on any computer in a network, regardless of which computer printed the documents that were written upon.

Xpaper SmartWrite paper is sold in 100-page packs, and is available in letter (8.5" x 11"), legal (8.5" x 14") and A4 (210mm x 297mm) sizes.

More Information

Visit www.talario.com for more information about Xpaper SmartWrite and the Xpaper family of products.

