

## What You Should Know Hands-On Test Report

### Hewlett-Packard Photosmart Premium TouchSmart Web All-in-One Printer



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**WHAT IT IS** – Hewlett-Packard’s Photosmart Premium TouchSmart Web All-in-One Printer is for home-office/home use and for color photo printing, and features a revolutionary 4.43” Web-enabled color touch screen—indeed, it’s the world’s first Web-connected printer/All-in-One. At the same time, the system incorporates all of the functions required for home offices—color print, copy, scan and fax.

Currently, there are only a very few under-\$500 All-in-Ones on the market equipped with touch screens (including HP’s Officejet Pro 8500 Premier). Touch screens—which make programming job settings much easier versus LCD display/hard-key systems—are usually reserved for much more expensive systems.

HP, however, has also expanded the touch screen with ground-breaking Web applications that enable users to access and print Web content. The advantage is that users can skip the computer workstation in order to perform some common tasks, such as printing Google maps and paying for and printing movie tickets. Photo-printing enthusiasts can also directly access and print photos stored on HP’s free photo-storing Web site, Snapfish.com, and there’s a large assortment of craft applications for children.

As a color photo-printing system, the Photosmart Premium TouchSmart incorporates features that making photo-printing easier and more enjoyable. These include borderless printing on media up to 8.5” x 11”, PictBridge port for directly printing from digital-camera memory cards, direct printing from Bluetooth-enabled devices, photo-editing software, and dedicated photo-paper drawer.

Easy sharing among users is provided via standard wired Ethernet and wireless Wi-Fi network connectivity.

**IMAGE QUALITY** - The Photosmart Premium TouchSmart Web All-in-One is a thermal ink-jet imaging system that prints and copies in both monochrome black and color. The system uses Hewlett-Packard’s Vivera inks: black 564 and 564XL ink cartridges are pigment-based, while color (cyan, magenta, yellow) and photo-black cartridges are dye-based.

#### TESTED IMAGE QUALITY

In order to evaluate image quality, Wirth Consulting uses:

1. The highest image-quality settings.
2. ImageXpert™ Printer 600 dpi Target Version 5.1.
3. ImageXpert Test Target EP-PSv1.
4. Northlight Images UK Grayscale Linearization Test Chart.
5. Synthetic (photographic) test images derived from ISO Internal Standard 12640 Graphic Technology (Prepress Digital-Data Exchange – CYMK Standard Color Image Data [CYMK/SCID]).
6. Hammermill 100/112+ Euro Bright, 28 lb. Color Copy Paper.



Image-quality originals used by Wirth Consulting when evaluating a device’s image quality.



### Hewlett-Packard

#### Photosmart Premium TouchSmart Web All-in-One Printer

*“The Photosmart Premium TouchSmart sets the new benchmark for fun at work. This All-in-One boasts revolutionary new Web applications and Web connectivity, and is built on HP’s solid imaging technology and innovative design. With the Photosmart Premium TouchSmart, users get a solid All-in-One, first-class color photo printer and groundbreaking new Web functionality that’s both practical and fun.” - Terry Wirth, President, Wirth Consulting.*



**Imaging Technology:** Thermal Color Ink-Jet  
**Functions:** Print/Copy/Scan/Fax

**Print Speed:** 33 (black)/32 (color) ppm (Draft)

**Printer Monthly Duty Cycle:** 2,500 pages

**Copier Monthly Duty Cycle:** 1,250 pages

**Suggested Retail Price:** \$329.00 (with \$70 rebate)

**Availability:** Retail, [www.HP.com](http://www.HP.com)

**Introduction Date:** June 2009

**Imaging Technology:** Thermal color ink-jet  
**Maximum Print Resolution:** 9600 x 2400 dpi (color)

#### STRENGTHS

- The Photosmart Premium TouchSmart produced crisp black text, and very good resolution and line and dot control for excellent text readability down to 4 pt. font size, which will be more than sufficient for virtually all office text documents.
- ISO raw TIFF test photographs displayed excellent fine detail, good color saturation, vibrant color, no banding, and very good, realistic flesh tones. The system produced state-of-the-art photographic image quality.
- No ink-bleed-through was observed in tested image output.
- The system uses HP’s Vivera inks for fade-resistance. Black Vivera ink is pigment-based, while the three color inks (cyan, magenta, yellow) and photo-black are dye-based for more vibrant color images.
- HP’s software provides state-of-the-art photo-enhancement capabilities such as Auto Red-Eye Removal, Adaptive Lighting, and Image Restoration.