Data sheet

HP Smart Tank 5100 All-in-One Printer

The smarter, more connected tank printer

Highlights

- Mobile setup
- Smart buttons
- Low-on-ink sensors
- Self-healing Wi-Fi
- HP app w/ Smart Advance
- Auto-On/Off technology
- Spill-free ink refills
- HP Wolf Essential security









Smart tank value

- Up to 3 years of ink keeps you printing at a fraction of the cost [2,3]
- Save on energy with HP Auto-On/Auto-Off technology[4]
- Ink sensors help prevent costly printhead replacements

Ready when you are

- Stay connected and keep printing with self-healing Wi-Fi [5]
- Print and scan on the go from any mobile device [6]
- Mobile fax with HP app [6]

Conveniently intuitive

- Easy mobile-guided setup [6]
- Printer tells you what to do next with smart buttons
- Colour-coded, mess-free recyclable bottles for easy refill [7]

Technical specifications

Functions	Print, copy, scan
Print technology	HP Thermal Inkjet
Print speed[5,7]	**Black (A4, ISO):** Up to 12 ppm; **Colour (A4, ISO):** Up to 5 ppm; **Draft black (A4):** Up to 22 ppm; **Draft colour (A4):** Up to 16 ppm: **Draft black (A4 Memo):** Up to 30 ppm; **Draft colour (A4 Memo):** Up to 24 ppm
First page out	**Black (A4, ready):** As fast as 14 sec; **Colour (A4, ready):** As fast as 21 sec
Print resolution	**Black (best):** Up to 1200 x 1200 rendered dpi; **Colour (best):** Up to 4800 x 1200 optimized dpi color (when printing from a computer and 1200 input dpi)
Monthly duty cycle	Up to 3,000 pages A4; **Recommended monthly page volume:** 400 to 800
Standard print languages	HP PCL 3 GUI; HP PCLm (HP Apps/UPD); URF (AirPrint)
Print area	**Print margins:** Top: 3 mm, Bottom: 3 mm, Left: 3 mm, Right: 3 mm; **Maximum print area**: 216 x 355 mm
Borderless printing	Yes (up to 8.5 x 11 in, 210 x 297 mm)
Number of supplies	4 (1 each black bottle, set of 3 color bottles)
Multitasking supported	No
Duplex printing	Manual (driver support provided)
Copy speed[4]	**Black (A4, ISO):** Up to 10 cpm; **Colour (A4, ISO):** Up to 2 cpm
Copier specifications	**Copier settings:** Actual size; Binding Margin; Color; Black; ID Copy; Resize; Quality (Draft/Normal/Best); Enhancement; Lighter/Darker; Number of Copies; **Maximum number of copies:** Up to 99 copies; **Copy resolution:** Up to 600 dpi; **Reduce/Enlarge:** Via HP app
Scan speed	**Normal (A4):** Up to 200 ppi/19 secs (color), up to 200 ppi/10 secs (mono);
Scan file format	JPG; PDF; PNG; TIFF; HEIF
Scanner specifications	**Scanner type:** Flatbed only; **Scan input modes:** Copy; HP Software; EWS; **Twain version:** Version 2.4; **Scan size maximum (flatbed):** 216 x 297 mm; **Optical scan resolution:** Up to 1200 dpi
Scannable area	**Maximum media size (flatbed):** 216 x 297 mm
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	**Standard:** Scan to file (from software); HP Smart Tasks
Processor speed	980 MHz
Connectivity	**Standard:** 1 Hi-Speed USB 2.0 (device); 1 Wi-Fi 802.11b/g/n; 1 Wi-Fi Direct
Wireless	Yes, built-in Wi-Fi 2.4G, Wi-Fi Direct
Mobile printing capability[3]	HP app; Apple AirPrint; Mopria Print Service; HP Print Service Plugin (Android printing); Wi-Fi® Direct Printing
Network capabilities	Yes (via WiFi)
Hard disk	No
Memory	**Standard:** 64 MB Integrated DDR1
Number of paper trays	**Standard:** 1
Media types	Plain paper, Matte Brochure Papers, Glossy Brochure Papers, Photo papers, Envelopes, Other specialty inkjet papers
Media size	**Custom (metric):** 88.9 x 127 to 215.9 x 355.6 mm **Supported (metric):** A4; B5; A6; DL envelope, legal
Media weight, supported	Plain paper: 60 to 90 g/m²; Envelopes: 75 to 90 g/m²; Cards: up to 200 g/m²; Photo paper: up to 300 g/m²
Input capacity	**Standard:** Up to 100 sheets **Envelopes:** Up to 10 envelopes **Cards:** Up to 30 cards
Output capacity	**Standard:** Up to 30 sheets **Envelopes:** Up to 10 envelopes **Cards:** Up to 30 cards
Compatible operating systems	Windows 11; Windows 10; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; macOS 13 Ventura; macOS 14 Sonoma; macOS 15 Sequoia
Minimum system requirements	**Windows:** Microsoft® Windows® 11, 10; 2 GB available hard disk space, Internet connection, Microsoft® Internet Explorer or Edge. **Mac:** Apple® macOS 10.15 Catalina, macOS 11 Big Sur, macOS 12 Monterey; 2 GB HD; Internet required, macOS 13 Ventura; macOS 14 Sonoma; macOS 15 Sequoia
Software included	HP Printer Software
Printer dimensions (W x D x H)[1]	**Minimum:** 434.66 x 361.53 x 157.26 mm; **Maximum:** 434.66 x 580.65 x 259.37 mm
Package dimensions (W x D x H)	495 x 198 x 478 mm
Printer weight	5.03 kg
Package weight	7.2 kg
Operating environment	**Temperature:** 5 to 40°C **Humidity:** 20 to 80% RH
Storage conditions	**Temperature:** -40 to 60°C **Humidity:** 5 to 90% RH (non-condensing)
Acoustics	**Acoustic power emissions:** 6.4 B(A) **Acoustic pressure emission:** 56.8 dBA
Power[2]	**Requirements:** Input voltage 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz). High voltage: Input voltage 200 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3Hz) ; **Consumption:** 0.109 watts (manual-Off), 3.023 watts (ready), 1.096 watt (sleep) ; **Power supply type:** Internal built in
Certifications	CISPR 32 2015+A1:2019 Class B/EN 55032:2015+A11:2020 Class B; CISPR 24:2010 +A1:2015/EN 55024:2010 +A1:2015; CISPR 35:2016/EN 55035:2017+A11:2020; EN IEC 61000-3-2:2019; EN 61000-3-2:2014; EN 61000-3-3:2013 +A1:2019; EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.4; FCC CFR 47 Part 15; ICES-003, Issue 7; VCCI-CISPR32:2016
Sustainable impact specifications[10,11]	45% post-consumer recycled plastic; ENERGY STAR® certified; EPEAT® registered
Country of origin	China(AB2); Thailand(AB2)
Control panel	Power On/Off, Cancel, Resume, Color Copy, Black copy, ID copy, WI-FI and Info button
Supplies, After market or Supplies, replacement[6]	**1VU26AE** HP 31 70-ml Cyan Original Ink Bottle (~8,000 pages) **1VU27AE** HP 31 70-ml Magenta Original Ink Bottle (~8,000 pages) **1VU28AE** HP 31 70-ml Yellow Original Ink Bottle (~8,000 pages) **1VV24AE** HP 32XL 135-ml Black Original Ink Bottle **6ZA17AE** HP 6ZA17AE Black Printhead **6ZA18AE** HP 6ZA18AE Tri-color Printhead
Warranty	One year of 24/7 world-class technical support services through http://www.hp.com/support; user replaceable parts have separate warranty periods

Messaging Footnotes

[1] HP ink bottles compared to HP ink cartridges. Cost per page based on expected black and composite (cyan/magenta/yellow) page yield results based on HP methodology and continuous printing of ISO/IEC 24712 test pages. Not based on ISO/IEC 24711 test process. Actual yield varies based on content of printed pages and other factors. Some ink from included bottles is used to start up the printer. For more information about fill and yield, see https://hp.com/go/learnaboutsupplies
[2] Based upon 150 pages per month of HP Smart Tank customers' usage. Actual yield varies considerably based on content of printed pages and other factors. Average based on ISO/IEC 24711 or HP testing methodology and continuous printing. Some ink from included bottles is used to start up the printer. For details, see: https://hp.com/go/learnaboutsupplies
[3] Black and composite colour average per bottle (cyan/magenta/yellow) results based on HP methodology and continuous printing of ISO/IEC 24712 test pages. Not based on ISO/IEC 24711 test process. An additional black ink bottle is required to print 6,000 colour test pages. Actual yield varies based on content of printed pages and other factors. Some ink from included bottles is used to start up the printer. For details, see: https://hp.com/go/learnaboutsupplies
[4] HP Auto-On/Auto-Off Technology capabilities subject to printer and settings; may require a firmware upgrade.
[5] Wireless operations are compatible with 2.4 GHz operations only. Learn more at www.hp.com/go/mobileprinting. Wi-Fi is a registered trademark of Wi-Fi Alliance®.
[6] Requires the HP app download. For details on local printing requirements see https://hp.com/go/mobileprinting. Certain features/software are available in English language only and differ between desktop and mobile applications. Subscription may be required; subscription may not be available in all countries. For details, see: https://HPSmart.com. Internet access required and must be purchased separately. HP account required for full functionality. List of supported operating systems available in app stores. Fax capabilities are for sending a fax only.
[7] Ink bottles can be recycled through HP's Planet Partner Program. Program availability varies. See http://hp.com/go/recycle

Technical Specifications Footnotes

[1] Dimensions vary as per configuration
[2] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.
[3] Wireless performance is dependent upon physical environment and distance from the access point. Wireless operations are compatible with 2.4 GHz routers only; excludes wireless direct. Wireless direct may require driver or apps be installed and connected on wireless-enabled mobile device or PC. Wireless functionality may vary by computer and mobile operating systems, see http://hpconnected.com . Print times and connection speeds may vary. Apple, AirPrint, Mac, and macOS are trademarks of Apple Inc., registered in the U.S. and other countries. Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Windows is a trademark of the Microsoft group of companies. Mopria®, the Mopria® Logo, and the Mopria Alliance™ word mark and logo are registered and/or unregistered trademarks and service marks of Mopria Alliance, Inc. in the United States and other countries. Unauthorized use is strictly prohibited
[4] Speed specifications have been updated to reflect current industry testing methods.
[5] Either after first page or after first set of ISO test pages. For details see: http://hp.com/go/printerclaims
[7] Based on HP internal A4 Memo draft document methodology. For details see https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA8-4168ENW .

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