

# HP Smart Tank 5102 All-in-One Printer (4A8D0A)



## **Smart tank value**

Up to two years of ink keeps you printing at a fraction of the cost [3,9]

## **Conveniently intuitive**

Easy mobile-guided setup [5]

## **Ready when you are**

Stay connected and keep printing with self-healing Wi-Fi [4]

## Features



Mobile-guided, seamless setup<sup>5</sup>



Smart buttons



Low-on-ink sensors



Self-healing Wi-Fi<sup>4</sup>



HP Smart Advance<sup>5</sup>



HP Auto On/Auto Off technology<sup>6</sup>

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[3] Based upon 200 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: [www.hp.com/go/learnaboutsupplies](http://www.hp.com/go/learnaboutsupplies)

[4] Wireless operations are compatible with 2.4 GHz operations only. Learn more at [www.hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting). Wi-Fi is a registered trademark of Wi-Fi Alliance®.

[5] Requires the HP app download. For details on local printing requirements see [www.hp.com/go/mobileprinting](http://www.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: [www.HPSmart.com](http://www.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.

[9] Black and composite color 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 6000 color 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: [www.hp.com/go/learnaboutsupplies](http://www.hp.com/go/learnaboutsupplies).

## Specifications

<b>Print quality black (best)</b>	Up to 1200 x 1200 rendered dpi
<b>Print quality color (best)</b>	Up to 4800 x 1200 optimized dpi color (when printing from a computer and 1200 input dpi)
<b>Print speed black (ISO, A4)</b>	Up to 12 ppm
<b>Print Speed Color (ISO)</b>	Up to 5 ppm
<b>Print speed</b>	Print speed up to 12 ppm (black) and 5 ppm (color)
<b>Bottom margin (A4)</b>	3 mm
<b>Left margin (A4)</b>	3 mm
<b>Right margin (A4)</b>	3 mm
<b>Top margin (A4)</b>	3 mm
<b>Functions</b>	Print, copy, scan
<b>Duplex printing</b>	Manual (driver support provided)
<b>Duty cycle (monthly, A4)</b>	Up to 3,000 pages
<b>Duty cycle (monthly, letter)</b>	Up to 3,000 pages
<b>Energy savings feature technology</b>	HP Auto-Off Technology
<b>Connectivity, standard</b>	1 Hi-Speed USB 2.0 (device); 1 Wi-Fi 802.11b/g/n; 1 Wi-Fi Direct
<b>Network capabilities</b>	Yes (via WiFi)
<b>Wireless capability</b>	Yes, built-in Wi-Fi 2.4G, Wi-Fi Direct
<b>Mobile printing capability</b>	HP app; Apple AirPrint; Mopria Print Service; HP Print Service Plugin (Android printing); Wi-Fi® Direct Printing
<b>Software included</b>	HP Printer Software
<b>Compatible Operating Systems</b>	Windows 11; Windows 10; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; macOS 13 Ventura; macOS 14 Sonoma; macOS 15 Sequoia <i>(Microsoft Windows 11, 10; macOS v10.15 Catalina; macOS v11 Big Sur; macOS v12 Monterey; macOS v13 Ventura; macOS v14 Sonoma; macOS 15 Sequoia; Android; iOS)</i>
<b>Sustainable impact specifications</b>	45% post-consumer recycled plastic; ENERGY STAR® certified; EPEAT® registered
<b>Energy star certified</b>	Yes
<b>Ecolabels</b>	ENERGY STAR® certified
<b>Digital sending standard features</b>	Scan to file (from software); HP Smart Tasks
<b>Scan speed (normal, A4)</b>	Up to 200 ppi/19 secs (color), up to 200 ppi/10 secs (mono)
<b>Scan file format</b>	JPG; PDF; PNG; TIFF; HEIF
<b>Scan input modes</b>	Copy; HP Software; EWS
<b>Scan technology</b>	Contact Image Sensor (CIS)

<b>Scanner type</b>	Flatbed only
<b>Display</b>	33 segments + 1.2-inch iCON LCD Display
<b>Dimensions (W x D x H)</b>	434.66 x 361.53 x 157.26 mm
<b>Dimensions (W x D x H)</b>	17.11 x 14.23 x 6.19 in
<b>Weight</b>	5.03 kg
<b>Weight</b>	11.09 lb
<b>Power consumption</b>	0.109 watts (manual-Off), 3.023 watts (ready), 1.096 watt (sleep) <sup>[2]</sup>
<b>Power supply type</b>	Internal built in
<b>Manufacturer Warranty</b>	One-year or 30,000 pages limited hardware warranty, whichever is earlier from the date of purchase. For more info please visit us at <a href="http://support.hp.com">http://support.hp.com</a>

## Additional specifications

<b>Accessories</b>	None
<b>Acoustic power emissions (active, printing)</b>	6.4 B(A)
<b>Acoustic pressure emissions</b>	56.8 dBA
<b>Automatic paper sensor</b>	No
<b>Bit depth</b>	24-bit
<b>Borderless printing</b>	Yes (up to 8.5 x 11 in, 210 x 297 mm)
<b>Cartons per layer</b>	12
<b>Color copy capability</b>	Yes
<b>Color or black</b>	Color
<b>Color scanning</b>	Yes
<b>Compatible Network Operating Systems</b>	Windows 11; Windows 10; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; macOS 13 Ventura; macOS 14 Sonoma; macOS 15 Sequoia
<b>Connection type</b>	Wireless
<b>Control panel</b>	Power On/Off, Cancel, Resume, Color Copy, Black copy, ID copy, WI-FI and Info button
<b>Copier settings</b>	Actual size; Binding Margin; Color; Black; ID Copy; Resize; Quality (Draft/Normal/Best); Enhancement; Lighter/Darker; Number of Copies
<b>Copies, maximum</b>	Up to 99 copies
<b>Copy reduce / enlarge settings</b>	Via HP app
<b>Copy resolution (black graphics)</b>	Up to 600 dpi
<b>Copy resolution (black text)</b>	Up to 600 dpi
<b>Copy resolution (color text and graphics)</b>	Up to 600 dpi
<b>Copy speed black (ISO)</b>	Up to 10 cpm
<b>Copy speed color (ISO)</b>	Up to 2 cpm
<b>Count of layers in pallet</b>	5
<b>Dimensions with trays up (W x D x H)</b>	434.66 x 361.53 x 157.26 mm
<b>Duty cycle note</b>	Duty cycle is the maximum number of pages that can be printed in a month, but this page volume is not recommended on an ongoing basis.
<b>Electromagnetic compatibility</b>	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
<b>Enhanced scanning resolution</b>	Up to 1200 dpi

<b>Envelope Feeder</b>	No
<b>File Format Supported</b>	JPG; PDF
<b>Finished output handling</b>	Sheetfed
<b>First page out black (A4, ready)</b>	As fast as 14 sec
<b>First page out color (A4, ready)</b>	As fast as 21 sec
<b>First page out footnote</b>	For details see: <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a>
<b>Fonts and typefaces</b>	None
<b>Geographic availability</b>	DM
<b>Image scaling or enlargement range</b>	25 to 150%
<b>Ink types</b>	Pigment-based (black); Dye-based (color)
<b>Input capacity</b>	Up to 100 sheets
<b>Internal Storage</b>	No
<b>Junk fax barrier</b>	No
<b>Levels of grayscale</b>	256
<b>Mac compatible</b>	Yes
<b>Maximum Input Capacity (envelopes)</b>	Up to 10 envelopes
<b>Maximum Memory</b>	64MB
<b>Maximum dimensions (W x D x H)</b>	17.11 x 22.86 x 10.21 in
<b>Maximum dimensions (W x D x H)</b>	434.66 x 580.65 x 259.37 mm
<b>Maximum input capacity (10x15cm photos)</b>	Up to 30 sheets
<b>Maximum input capacity (4x6 photo)</b>	Up to 30 sheets
<b>Maximum input capacity (cards)</b>	Up to 30 cards
<b>Maximum input capacity (photo paper)</b>	Up to 30 sheets
<b>Maximum input capacity (sheets)</b>	Up to 100 sheets
<b>Maximum output capacity (cards)</b>	Up to 30 cards
<b>Maximum output capacity (envelopes)</b>	Up to 10 envelopes
<b>Maximum output capacity (photo paper)</b>	Up to 30 sheets
<b>Maximum output capacity (sheets)</b>	Up to 30 sheets
<b>Maximum print area</b>	216 x 355 mm
<b>Media sizes supported</b>	A4; B5; A6; DL envelope, legal
<b>Media sizes supported</b>	Letter; legal; 4 x 6 in; 5 x 7 in; 8 x 10 in; No. 10 envelopes

<b>Media sizes supported, key</b>	4 x 6 in; Letter; Legal; Envelopes
<b>Media sizes supported, key</b>	10 x 15 cm; A4; Envelopes
<b>Media sizes, custom</b>	88.9 x 127 to 215.9 x 355.6 mm
<b>Media sizes, custom</b>	3.5 x 5 in to 8.5 x 14 in
<b>Media types</b>	Plain paper, Matte Brochure Papers, Glossy Brochure Papers, Photo papers, Envelopes, Other specialty inkjet papers
<b>Media weight, recommended</b>	20 lb
<b>Media weight, recommended</b>	75 g/m <sup>2</sup>
<b>Media weight, supported</b>	Plain paper: 60 to 90 g/m <sup>2</sup> ; Envelopes: 75 to 90 g/m <sup>2</sup> ; Cards: up to 200 g/m <sup>2</sup> ; Photo paper: up to 300 g/m <sup>2</sup>
<b>Media weight, supported</b>	Plain paper: 16 to 24 lb; Envelopes: 20 to 24 lb; Cards: up to 110 lb; Photo paper: up to 80 lb
<b>Memory</b>	64 MB Integrated DDR1
<b>Memory Slots</b>	No
<b>Minimum System Requirements</b>	Microsoft® Windows® 11, 10; 2 GB available hard disk space, Internet connection, Microsoft® Internet Explorer or Edge.
<b>Minimum System Requirements for Macintosh</b>	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
<b>Model number</b>	5102
<b>Multitasking supported</b>	No
<b>Non-Operating Humidity Range</b>	5 to 90% RH (non-condensing)
<b>Number of users</b>	1-3 Users
<b>Operating humidity range</b>	15 to 80% RH (non-condensing)
<b>Operating temperature range</b>	5 to 40°C
<b>Operating temperature range</b>	41 to 104°F
<b>Output capacity</b>	Up to 30 sheets
<b>Output file format</b>	JPEG
<b>Package dimensions (W x D x H)</b>	19.49 x 7.8 x 18.82 in
<b>Package dimensions (W x D x H)</b>	495 x 198 x 478 mm
<b>Package weight</b>	7.2 kg
<b>Package weight</b>	15.89 lb
<b>Page yield (set-up/inbox cartridges)</b>	~6000 pages black, ~6,000 pages cyan, magenta, yellow composite yield
<b>Pallet dimensions</b>	47.99 x 40 x 94.09 in
<b>Pallet dimensions (W x D x H)</b>	1200 x 1000 x 2390 mm
<b>Pallet weight</b>	950 lb
<b>Pallet weight</b>	432 kg

<b>Paper handling input, standard</b>	100-sheet input tray
<b>Paper handling output, standard</b>	30-sheet output tray
<b>Paper trays, maximum</b>	1
<b>Paper trays, standard</b>	1
<b>Photo proofsheets supported</b>	No
<b>PictBridge description</b>	No
<b>PictBridge supported</b>	No
<b>Plug and play</b>	Auto Wireless Connect
<b>Power</b>	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)
<b>Print Cartridge/Bottle, Color(s)</b>	Black; Cyan; Magenta; Yellow
<b>Print Cartridges/Bottle, Number</b>	4 (1 each black bottle, set of 3 color bottles)
<b>Print Speed (Draft, A4 Memo) Footnote Number</b>	[7]
<b>Print Speed Black (Draft, A4 Memo)</b>	Up to 30 ppm
<b>Print Speed Color (Draft, A4 Memo)</b>	Up to 24 ppm
<b>Print Technology</b>	Ink
<b>Print colors</b>	Yes
<b>Print colors maximum</b>	4
<b>Print head nozzles</b>	704 (Black), 588 (Tri-color)
<b>Print heads</b>	2 (1 each black, tri-color)
<b>Print languages</b>	HP PCL 3 GUI; HP PCLm (HP Apps/UPD); URF (AirPrint)
<b>Print speed black (ISO)</b>	Up to 12 ppm
<b>Print speed black (draft, A4)</b>	Up to 22 ppm
<b>Print speed color (ISO)</b>	Up to 5 ppm
<b>Print speed color (draft, A4)</b>	Up to 16 ppm
<b>Print speed color (normal, 10x15 photo)</b>	As fast as 76 sec
<b>Print speed color (normal, 4x6 photo)</b>	As fast as 76 sec
<b>Print technology</b>	HP Thermal Inkjet
<b>Printer Management</b>	No
<b>Printer drivers included</b>	HP PCL 3 GUI
<b>Processor speed</b>	980 MHz
<b>Product color</b>	Surf blue

<b>Product logos</b>	Air Print; Android; Windows; USB high speed; WiFi certified; Mopria; PAP 20; SmartWay; Fragile; Keep out of Rain; This side up; EPEAT Silver; EnergyStar
<b>Product long name specifications</b>	HP Smart Tank 5102 All-in-One Printer, Home, Print, copy, scan, Wireless; High-volume printer tank; Print from phone or tablet; Scan to PDF
<b>Product name (back)</b>	Smart Tank 5102 Wireless All-in-One
<b>Product name (front)</b>	Smart Tank 5102 Wireless All-in-One
<b>Product name (primary)</b>	Smart Tank 5102 Wireless All-in-One
<b>Product name (secondary)</b>	Smart Tank 5102 Wireless All-in-One
<b>Product short name specifications</b>	HP Smart Tank 5102 Wireless All-in-One Color Printer, Copier, Scanner
<b>Quantity per pallet</b>	60
<b>RMN number</b>	SNPRC-2201-01
<b>Recommended Macintosh system requirements</b>	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
<b>Recommended monthly page volume</b>	400 to 800
<b>Recommended monthly page volume note</b>	HP recommends the number of pages printed not exceed the recommended monthly page volume for optimum device performance.
<b>Recommended operating humidity range</b>	20 to 80% RH
<b>Recommended operating temperature range</b>	59 to 86°F
<b>Recommended operating temperature range</b>	15 to 30°C
<b>Replacement cartridges footnote</b>	Black and composite color average per bottle (cyan/magenta/yellow) results based on HP methodology from the simulation of 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 8,000 color 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 more information about fill and yield, see <a href="http://www.hp.com/go/learnaboutsupplies">http://www.hp.com/go/learnaboutsupplies</a> .
<b>Safety</b>	IEC 62368-1 compliant; EU RED and EN 62368-1 compliant; NEMKO GS approved; CSA NRTL approved; Japan VCCI; Australia and New Zealand RCM.
<b>Scan resolution, hardware</b>	Up to 1200 x 1200 dpi
<b>Scan resolution, optical</b>	Up to 1200 dpi
<b>Scan size, maximum</b>	8.5 x 11.69 in
<b>Scan size, maximum</b>	216 x 297 mm
<b>Scanning options (ADF)</b>	Not Applicable
<b>Security management</b>	No
<b>Segment (filter)</b>	Home

<b>Send to email capability</b>	No
<b>Service &amp; support options</b>	Protect your investment—HP Total Care offers a variety of extended warranties and services, go to <a href="http://www.hp.com/support">http://www.hp.com/support</a>
<b>Standard input capacity (cards)</b>	Up to 30 cards
<b>Standard input capacity (envelopes)</b>	Up to 10
<b>Standard input capacity (legal)</b>	Up to 100 sheets
<b>Standard media sizes (duplex)</b>	A4; B5
<b>Standard media sizes (duplex, imperial)</b>	Letter; Executive
<b>Standard memory note</b>	No
<b>Standard output capacity (cards)</b>	Up to 30 cards
<b>Standard output capacity (envelopes)</b>	Up to 10 envelopes
<b>Standard output capacity (legal)</b>	Up to 30 sheets
<b>Storage altitude</b>	15,000 ft
<b>Storage altitude</b>	4572 m
<b>Storage device and direct print support</b>	USB printing
<b>Storage temperature range</b>	-40 to 140°F
<b>Storage temperature range</b>	-40 to 60°C
<b>Sub-brand name</b>	Smart Tank
<b>System requirements, recommended</b>	Microsoft® Windows® 11, 10; 2 GB available hard disk space, Internet connection, Microsoft® Internet Explorer or Edge.
<b>Target user and print volume</b>	For teams up to 3 users; Prints up to 800 pages/month
<b>Tariff numbers</b>	NA/EMEA: 8443310000; AP China: 8443319010
<b>Telecom compliance (fax capability)</b>	EN 300 328 V2.2.2; EN 301 893 V2.1.1; EN 300 440 V2.1.1
<b>Top key features</b>	Wireless; High-volume printer tank; Print from phone or tablet; Scan to PDF
<b>Twain version</b>	Version 2.4
<b>UNSPSC code</b>	43212110
<b>UPC number</b>	(1H5) 197029326799; (B1H) 197497228076
<b>Vertical alignment accuracy</b>	+/- 0.02 mm
<b>Vertical alignment accuracy</b>	+/- 0.0008 in
<b>Video action printing supported</b>	No
<b>Wireless technologies</b>	802.11b/g/n

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*[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.*

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# Ink/Toner/Paper/Printer Supplies

## Ink Supplies

★ : Recommended

### HP Ink Bottles

HP 31 70-ml Cyan Original Ink Bottle	1VU26AA
HP 31 70-ml Cyan Original Ink Bottle	1VU26AE
HP 31 70-ml Cyan Original Ink Bottle	1VU26AN
HP 31 70-ml Magenta Original Ink Bottle	1VU27AA
HP 31 70-ml Magenta Original Ink Bottle	1VU27AE
HP 31 70-ml Magenta Original Ink Bottle	1VU27AN
HP 31 70-ml Yellow Original Ink Bottle	1VU28AA
HP 31 70-ml Yellow Original Ink Bottle	1VU28AE
HP 31 70-ml Yellow Original Ink Bottle	1VU28AN
HP 31 CMY Original Ink Bottle Combo 3-Pack	9C228AN
HP 31 CMY/32XL Black Bottled Ink Cartridge	7E6X7AN
HP 32XL 135-ml Black Original Ink Bottle	1VV24AA
HP 32XL 135-ml Black Original Ink Bottle	1VV24AE
HP 32XL 135-ml Black Original Ink Bottle	1VV24AN

### HP Inkjet Printer Cartridges and Ink Supplies

HP 6ZA17AE Black Printhead	6ZA17AE
HP 6ZA18AE Tri-color Printhead	6ZA18AE

## HP Business Papers

### HP Business Papers for inkjet

HP Enhanced Business Paper, Matte, 40 lb, 8.5 x 11 in (216 x 279 mm), 150 sheets	9ZE20A
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## HP Photo Papers

### HP Photo Papers for inkjet

HP Matte Photo Paper, 180 g/m <sup>2</sup> , 10 x 15 cm (101 x 152 mm), 25 sheets	7HF70A
HP Matte Photo Paper, 48 lb, 4 x 6 in. (101 x 152 mm), 25 sheets	6QH46A

## HP Home & Office Papers

## HP Home & Office Papers for laser and inkjet

HP MultiPurpose20TM, 20 lb, 11 x 17 in. (279 x 432 mm), 250 sheets	HPM1720P
HP MultiPurpose20TM, 20 lb, 8.5 x 11 in. (216 x 279 mm), 500 sheets	HPM1120R
HP MultiPurpose20TM, 20 lb, 8.5 x 14 in. (216 x 356 mm), 500 sheets	HPM1420P

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