



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 setup⁵



Smart buttons



Low-on-ink sensors



Self-healing Wi-Fi®⁴



HP Smart Advance⁵



HP Auto On/Auto Off technology⁶

[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

[4] 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®.

[5] Requires the HP Smart app download. For details on local printing requirements see 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. 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.

Specifications

Print quality black (best)	Up to 1200 x 1200 rendered dpi
Print quality color (best)	Up to 4800 x 1200 optimized dpi color (when printing from a computer and 1200 input dpi)
Print speed black (ISO, A4)	Up to 12 ppm
Print Speed Color (ISO)	Up to 5 ppm
Print speed	Print speed up to 12 ppm (black) and 5 ppm (color)
Functions	Print, copy, scan
Duplex printing	Manual (driver support provided)
Duty cycle (monthly, A4)	Up to 3,000 pages
Duty cycle (monthly, letter)	Up to 3,000 pages
Energy savings feature technology	HP Auto-Off Technology
Connectivity, standard	1 Hi-Speed USB 2.0 (device); 1 Wi-Fi 802.11b/g/n; 1 Wi-Fi Direct
Network capabilities	Yes (via Wi-Fi)
Wireless capability	Yes, built-in Wi-Fi 2.4G, Wi-Fi Direct
Mobile printing capability	HP Smart app; Apple AirPrint; Mopria Print Service; HP Print Service Plugin (Android printing); Wi-Fi Direct Printing
Software included	HP Printer Software
Compatible Operating Systems	Windows 11; Windows 10; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey <i>(Microsoft Windows 11, 10, 7 SP1: 32-bit or 64-bit; macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; Android; iOS;)</i>
Sustainable impact specifications	45% post-consumer recycled plastic; ENERGY STAR® certified; EPEAT® registered
Energy star certified	Yes
Digital sending standard features	Scan to file (from software); HP Smart Tasks
Scan file format	JPEG; PDF
Scan input modes	Copy; HP Software; EWS
Scan technology	Contact Image Sensor (CIS)
Scanner type	Flatbed only
Display	33 segments + 1.2-inch iCON LCD Display
Minimum dimensions (W x D x H)	434.66 x 361.53 x 157.26 mm
Minimum dimensions (W x D x H)	17.11 x 14.23 x 6.19 in
Weight	5.03 kg
Weight	11.09 lb
Power consumption	0.109 watts (manual-Off), 3.023 watts (ready), 1.096 watt (sleep) ^[2]

Power supply type

Internal built in

Additional specifications

Accessories	None
Acoustic power emissions (active, printing)	6.4 B(A)
Acoustic pressure emissions	56.8 dBA
Automatic paper sensor	No
Bit depth	24-bit
Borderless printing	Yes (up to 8.5 x 11 in, 210 x 297 mm)
Bottom margin (A4)	3 mm
Cartons per layer	12
Color copy capability	Yes
Color or black	Color
Color scanning	Yes
Color(s) of printing supplies	Black; Cyan; Magenta; Yellow
Control panel	Power On/Off, Cancel, Resume, Color Copy, Black copy, ID copy, WI-Fi and Info button
Copier settings	Actual size; Binding Margin; Color; Black; ID Copy; Resize; Quality (Draft/Normal/Best); Enhancement; Lighter/Darker; Number of Copies
Copies, maximum	Up to 99 copies
Copy reduce / enlarge settings	Via HP Smart app
Copy resolution (black graphics)	Up to 600 dpi
Copy resolution (black text)	Up to 600 dpi
Copy resolution (color text and graphics)	Up to 600 dpi
Copy speed black (ISO)	Up to 10 cpm
Copy speed color (ISO)	Up to 2 cpm
Count of layers in pallet	5
Country of origin	Made in China
Dimensions with trays up (W x D x H)	434.66 x 361.53 x 157.26 mm
Electromagnetic compatibility	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
Enhanced scanning resolution	Up to 1200 dpi
Envelope Feeder	No
File Format Supported	JPG; PDF

Finished output handling	Sheetfed
First page out black (A4, ready)	As fast as 14 sec
First page out color (A4, ready)	As fast as 21 sec
First page out footnote	For details see: http://www.hp.com/go/printerclaims
Fonts and typefaces	None
Geographic availability	DM
Image scaling or enlargement range	25 to 150%
Ink types	Pigment-based (black); Dye-based (color)
Input capacity	Up to 100 sheets
Internal Storage	No
Junk fax barrier	No
Left margin (A4)	3 mm
Levels of grayscale	256
Mac compatible	Yes
Maximum Input Capacity (envelopes)	Up to 10 envelopes
Maximum Memory	64MB
Maximum dimensions (W x D x H)	17.11 x 22.86 x 10.21 in
Maximum dimensions (W x D x H)	434.66 x 580.65 x 259.37 mm
Maximum input capacity (10x15cm photos)	Up to 30 sheets
Maximum input capacity (4x6 photo)	Up to 30 sheets
Maximum input capacity (cards)	Up to 30 cards
Maximum input capacity (labels)	Up to 10 sheets
Maximum input capacity (photo paper)	Up to 30 sheets
Maximum input capacity (sheets)	Up to 100 sheets
Maximum output capacity (cards)	Up to 30 cards
Maximum output capacity (envelopes)	Up to 10 envelopes
Maximum output capacity (labels)	Up to 30 sheets
Maximum output capacity (photo paper)	Up to 30 sheets
Maximum output capacity (sheets)	Up to 30 sheets
Maximum print area	216 x 355 mm
Media sizes supported	A4; B5; A6; DL envelope, legal

Media sizes supported	Letter; legal; 4 x 6 in; 5 x 7 in; 8 x 10 in; No. 10 envelopes
Media sizes supported, key	4 x 6 in; Letter; Legal; Envelopes
Media sizes supported, key	10 x 15 cm; A4; Envelopes
Media sizes, custom	88.9 x 127 to 215.9 x 355.6 mm
Media sizes, custom	3.5 x 5 in to 8.5 x 14 in
Media types	Plain paper, Matte Brochure Papers, Glossy Brochure Papers, Photo papers, Envelopes, Other specialty inkjet papers
Media weight, recommended	75 g/m ²
Media weight, recommended	20 lb
Media weight, supported	Plain paper: 60 to 90 g/m ² ; Envelopes: 75 to 90 g/m ² ; Cards: up to 200 g/m ² ; Photo paper: up to 300 g/m ²
Media weight, supported	Plain paper: 16 to 24 lb; Envelopes: 20 to 24 lb; Cards: up to 110 lb; Photo paper: up to 80 lb
Memory	64 MB Integrated DDR1
Memory Slots	No
Minimum System Requirements	Microsoft® Windows® 11, 10, 7 SP1: 32-bit or 64-bit, 2 GB available hard disk space, Internet connection, Microsoft® Internet Explorer or Edge.
Minimum System Requirements for Macintosh	Apple® macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; 2 GB HD; Internet required
Multitasking supported	No
Non-Operating Humidity Range	5 to 90% RH (non-condensing)
Number of print cartridges	4 (1 each black bottle, set of 3 color bottles)
Number of users	1-3 Users
Operating humidity range	15 to 80% RH (non-condensing)
Operating temperature range	41 to 104°F
Operating temperature range	5 to 40°C
Output capacity	Up to 30 sheets
Output file format	JPEG
Package dimensions (W x D x H)	495 x 198 x 478 mm
Package dimensions (W x D x H)	19.49 x 7.8 x 18.82 in
Package weight	15.89 lb
Package weight	7.2 kg
Page yield (set-up/inbox cartridges)	~6000 pages black, ~6,000 pages cyan, magenta, yellow composite yield
Pallet dimensions	47.99 x 40 x 94.09 in
Pallet dimensions (W x D x H)	1200 x 1000 x 2390 mm
Pallet weight	950 lb
Pallet weight	432 kg

Paper handling input, standard	100-sheet input tray
Paper handling output, standard	30-sheet output tray
Paper trays, maximum	1
Paper trays, standard	1
Photo proofsheets supported	No
PictBridge description	No
PictBridge supported	No
Plug and play	Auto Wireless Connect
Power	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)
Print Technology	Ink
Print colors	Yes
Print colors maximum	4
Print head nozzles	704 (Black), 588 (Tri-color)
Print heads	2 (1 each black, tri-color)
Print languages	HP PCL 3 GUI; HP PCLm (HP Apps/UPD); URF (AirPrint)
Print speed black (ISO)	Up to 12 ppm
Print speed black (draft, A4)	Up to 22 ppm
Print speed color (ISO)	Up to 5 ppm
Print speed color (draft, A4)	Up to 16 ppm
Print speed color (normal, 10x15 photo)	As fast as 76 sec
Print speed color (normal, 4x6 photo)	As fast as 76 sec
Print technology	HP Thermal Inkjet
Printer Management	No
Printer drivers included	HP PCL 3 GUI
Processor speed	980 MHz
Product logos	Air Print; Android; Windows; USB high speed; WiFi certified; Mopria; PAP 20; SmartWay; Fragile; Keep out of Rain; This side up; EPEAT Silver; EnergyStar
Product name (back)	Smart Tank 5102 Wireless All-in-One
Product name (front)	Smart Tank 5102 Wireless All-in-One
Product name (primary)	Smart Tank 5102 Wireless All-in-One
Product name (secondary)	Smart Tank 5102 Wireless All-in-One
Product short name specifications	HP Smart Tank 5102 All-in-One Printer, Color, Printer for Home and home office, Print, copy, scan, Wireless; High-volume printer tank; Print from phone or tablet; Scan to PDF

Quantity per pallet	60
RMN number	SNPRC-2201-01
Recommended Macintosh system requirements	Apple® macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; 2 GB HD; Internet required
Recommended monthly page volume	400 to 800
Recommended operating humidity range	20 to 80% RH
Recommended operating temperature range	59 to 86°F
Recommended operating temperature range	15 to 30°C
Replacement cartridges footnote	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 http://www.hp.com/go/learnaboutsupplies .
Right margin (A4)	3 mm
Safety	IEC 62368-1 compliant; EU RED and EN 62368-1 compliant; NEMKO GS approved; CSA NRTL approved; Japan VCCI; Australia and New Zealand RCM.
Scan resolution, hardware	Up to 1200 x 1200 dpi
Scan resolution, optical	Up to 1200 dpi
Scan size, maximum	216 x 297 mm
Scan size, maximum	8.5 x 11.69 in
Scanning options (ADF)	Not Applicable
Security management	No
Segment (filter)	Home and home office
Send to email capability	No
Service & support options	Protect your investment—HP Total Care offers a variety of extended warranties and services, go to http://www.hp.com/support
Standard input capacity (cards)	Up to 30 cards
Standard input capacity (envelopes)	Up to 10
Standard input capacity (legal)	Up to 100 sheets
Standard media sizes (duplex)	A4; B5
Standard media sizes (duplex, imperial)	Letter; Executive
Standard memory note	No
Standard output capacity (cards)	Up to 30 cards

Standard output capacity (envelopes)	Up to 10 envelopes
Standard output capacity (labels)	Up to 10 sheets
Standard output capacity (legal)	Up to 30 sheets
Storage altitude	4572 m
Storage altitude	15,000 ft
Storage device and direct print support	USB printing
Storage temperature range	-40 to 140°F
Storage temperature range	-40 to 60°C
Sub-brand name	Smart Tank
System requirements, recommended	Microsoft® Windows® 11, 10, 7 SP1: 32-bit or 64-bit, 2 GB available hard disk space, Internet connection, Microsoft® Internet Explorer or Edge.
Target user and print volume	For teams up to 3 users; Prints up to 800 pages/month
Tariff numbers	NA/EMEA: 8443310000; AP China: 8443319010
Telecom compliance (fax capability)	EN 300 328 V2.2.2; EN 301 893 V2.1.1; EN 300 440 V2.1.1
Top key features	Wireless; High-volume printer tank; Print from phone or tablet; Scan to PDF
Top margin (A4)	3 mm
Twain version	Version 2.4
UNSPSC code	43212104
UPC number	(1H5) 197029326799; (B1H) 197497228076
Vertical alignment accuracy	+/- 0.02 mm
Vertical alignment accuracy	+/- 0.0008 in
Video action printing supported	No
Wireless technologies	802.11b/g/n

[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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