HP Smart Tank 581 All-in-One Printer (4A8D4A)



Overview

Enjoy everyday reliability with the HP quality you expect and savings that are anything but expected

Enjoy everyday reliability with the HP Smart Tank 580 wireless All-in-One printer that delivers HP quality you expect and savings that are anything but expected [8]

Smart tank value

Up to 2 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

Features



Mobile-guided, seamless setup[5]



Smart buttons



Low-on-ink sensors



Self-healing Wi-Fi®[4]



HP Smart Advance[2,11]



HP Auto On/Off technology[6]

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[3] 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] 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 hp.com/go/learnaboutsupplies .

[8] 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 hp.com/go/learnaboutsupplies .

[9] Compared to OEM printing apps for the majority of top-selling, network-capable inkjet/laser printers and all-in-ones for the home and office, priced ≤450 USD. Market share as reported by IDC Quarterly Hardcopy Peripherals Tracker – Final Historical CYQ4 2020. Claim based on research of printer manufacturer's print apps and Keypoint Intelligence hands-on testing and study April 2021 commissioned by HP. For details, see: www.keypointintelligence.com/HPSmartApp

Specifications

Print Resolution Black (best)	Up to 1200 x 1200 rendered dpi
Print Resolution Color (best)	Up to 4800 x 1200 optimized dpi color (when printing from a computer and 1200 input dpi)
Print Speed Black (normal, A4)	Up to 12 ppm
Print Speed Color (normal, A4)	Up to 5 ppm
Print Speed	Print speed up to 12 ppm (black) and 5 ppm (color)
Print Margin Bottom (A4)	3 mm
Print Margin Left (A4)	3 mm
Print Margin Right (A4)	3 mm
Print Margin Top (A4)	3 mm
AIO Functions	Print, copy, scan
Duplex Print Options	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
Replacement Cartridges	North America: HP GT53 90-ml Black Original Ink Bottle 1VV22AA; HP GT53XL 135-ml Black Original Ink Bottle 1VV21AA; HP GT52 Cyan Original Ink Bottle M0H54AA; HP GT52 Magenta Original Ink Bottle M0H55AA; HP GT52 Yellow Original Ink Bottle M0H56AA; Europe Middle East and Africa: HP GT53XL 135-ml Black Original Ink Bottle 1VV21AE; HP GT52 Cyan Original Ink Bottle M0H54AE; HP GT52 Magenta Original Ink Bottle M0H55AE; HP GT52 Yellow Original Ink Bottle M0H56AE; Asia Pacific: HP GT53 90-ml Black Original Ink Bottle 1VV22AA; HP GT53XL 135-ml Black Original Ink Bottle 1VV21AA; HP GT52 Cyan Original Ink Bottle M0H54AA; HP GT52 Magenta Original Ink Bottle M0H55AA; HP GT52 Yellow Original Ink Bottle M0H56AA; Latin America: HP GT53 90-ml Black Original Ink Bottle 1VV22AL; HP GT52 Cyan Original Ink Bottle M0H54AL; HP GT52 Magenta Original Ink Bottle M0H55AL; HP GT52 Yellow Original Ink Bottle M0H56AL; HP GT52 3-pack Cyan/Magenta/Yellow Original Ink Bottles X4E44AL. For more information about fill and yield, see http://www.hp.com/go/learnaboutsupplies .[6]
Connectivity, Std	1 Hi-Speed USB 2.0 (device); 1 Wi-Fi 802.11b/g/n; 1 Wi-Fi Direct
Network Capabilities	Yes (via WiFi)
Wireless Capability	Yes, built-in Wi-Fi 2.4G, Wi-Fi Direct
Mobile Printing Capability	HP 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; macOS 13 Ventura; macOS 14 Sonoma; Chrome OS *(Microsoft Windows 11, 10; macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; macOS v13 Ventura; macOS v14 Sonoma; Android; iOS)*
Sustainability Specifications	45% post-consumer recycled plastic; EPEAT® registered
Energy Star Certified	No
Ecolabels (fixed)	Conforms to ecolabel energy efficiency limits
Digital Sending Standard Features	Scan to file (from software); HP Smart Tasks
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
Scan Input Modes	Copy; HP Software; EWS
Scan Technology	Contact Image Sensor (CIS)
Scan Type	Flatbed only
Display Description	33 segments + 1.2-inch iCON LCD Display
Product Dimensions W x D x H (metric)	434.66 x 361.53 x 157.26 mm
Product Dimensions W x D x H (imperial)	17.11 x 14.23 x 6.19 in
Weight (metric)	5.03 kg
Weight (imperial)	11.09 lb
Power Consumption Description	0.109 watts (manual-Off), 3.023 watts (ready), 1.096 watt (sleep)[2]
Power Supply Type	Internal built in
Manufacturer Warranty	One-year or 30,000 pages limited hardware warranty, whichever is earlier from the date of purchase. For more info please visit us at http://support.hp.com

Additional specifications

Accessories	None
Acoustic Power Emissions (active, printing)	6.4 B(A)
Acoustic Pressure Emissions	50.5 dBA (Mono) ; 43.7 dBA (Colour)
Automatic Paper Sensor	No
Bit Depth	24-bit
Borderless Printing	Yes (up to 8.5 x 11 in, 210 x 297 mm)
Cartons Per Layer	12
Color Copy Capability	Yes
Color Scanning	Yes
Color or Black (filter)	Color
Connection Type	Wireless
Control Panel	Power On/Off, Cancel, Resume, Color Copy, Black copy, ID copy, WI-FI and Info button
Copier Reduce/enlarge	Via HP app
Copier Settings	Number of Copies, Resize, Quality, Lighter/Darker, Papersize, Papertype, ID Copy, Enhancement
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 x 600 dpi
Copy Speed Black (ISO)	Up to 10 cpm
Copy Speed Color (ISO)	Up to 2 cpm
Count of Layers In Pallet	5
Datasheet Photo 01	Publication photos/LEBI_WL_581 wyh.jpg
Duty Cycle Note	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.
Electromagnetic Emission Standard	EN 55032:2015+A11:2020 Class B; EN 55024:2010 +A1:2015; 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
Envelope Feeder	No
File Formats	JPG; PDF
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 of Product	EM
Grayscale Levels	256
Image Scaling or Enlargement Range	25 to 150%
In Box Cable	(BEW, BHG, 671, AC8, AKH, AKY) No, please purchase USB cable separately
Ink Types	Pigment-based (black); Dye-based (color)
Input Capacity Maximum (4 X 6 Photo)	Up to 30 sheets
Input Capacity Maximum (photo paper)	Up to 30 sheets
Input Capacity, Envelopes (primary)	Up to 10
Input Capacity, Max	Up to 100 sheets
Input Capacity, Max, 10 X 15 cm Photo	Up to 30 sheets
Input Capacity, Max, Cards	Up to 30 cards
Input Capacity, Max, Envelopes	Up to 10 envelopes
Input Capacity, Standard, Legal	Up to 100 sheets
Input Capacity, Std	Up to 100 sheets
Input Capacity, Std, Cards	Up to 30 cards
Key Media Sizes Supported (imperial)	4 x 6 in; Letter; Legal; Envelopes
Key Media Sizes Supported (metric)	10 x 15 cm; A4; Envelopes
Mac Compatible	Yes
Max Dimensions W x D x H (imperial)	17.11 x 22.86 x 10.21 in
Max Dimensions W x D x H (metric)	434.66 x 580.65 x 259.37 mm
Max Number Of Copies	Up to 99 copies
Maximum Memory	64MB
Media Handling, Document Finishing	Sheetfed
Media Sizes Custom (imperial)	3.5 x 5 in to 8.5 x 14 in
Media Sizes Custom (metric)	88.9 x 127 to 215.9 x 355.6 mm
Media Types	Plain paper, Matte Brochure Papers, Glossy Brochure Papers, Photo papers and Envelopes
Media Weight Recommended (imperial)	20 lb
Media Weight Recommended (metric)	75 g/m²

Media Weights Supported, By Paper Path (Imperial)	Plain paper: 16 to 24 lb; Envelopes: 20 to 24 lb; Cards: up to 110 lb; Photo paper: up to 80 lb
Media Weights Supported, By Paper Path (metric)	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
Memory Slots	No
Model Number	581
Non-operating Altitude (imperial)	15,000 ft
Non-operating Altitude (metric)	4572 m
Non-operating Humidity Range	5 to 90% RH (non-condensing)
Number of Simultaneous Users (local + network)	1-3 Users
Operating Humidity Range	15 to 80% RH (non-condensing)
Operating Humidity Range (recommended)	20 to 80% RH
Operating Temperature Range (celsius)	5 to 40°C
Operating Temperature Range (fahrenheit)	41 to 104°F
Operating Temperature Range (recommended celsius)	15 to 30°C
Operating Temperature Range (recommended fahrenheit)	59 to 86°F
Orderable Supplies	North America: HP GT53 90-ml Black Original Ink Bottle 1VV22AA; HP GT53XL 135-ml Black Original Ink Bottle 1VV21AA; HP GT52 Cyan Original Ink Bottle M0H54AA; HP GT52 Magenta Original Ink Bottle M0H55AA; HP GT52 Yellow Original Ink Bottle M0H56AA; Europe Middle East and Africa: HP GT53XL 135-ml Black Original Ink Bottle 1VV21AE; HP GT52 Cyan Original Ink Bottle M0H54AE; HP GT52 Magenta Original Ink Bottle M0H55AE; HP GT52 Yellow Original Ink Bottle M0H56AE; Asia Pacific: HP GT53 90-ml Black Original Ink Bottle 1VV22AA; HP GT53XL 135-ml Black Original Ink Bottle 1VV21AA; HP GT52 Cyan Original Ink Bottle M0H54AA; HP GT52 Magenta Original Ink Bottle M0H55AA; HP GT52 Yellow Original Ink Bottle M0H56AA; Latin America: HP GT53 90-ml Black Original Ink Bottle 1VV22AL; HP GT52 Cyan Original Ink Bottle M0H54AL; HP GT52 Magenta Original Ink Bottle M0H55AL; HP GT52 Yellow Original Ink Bottle M0H56AL; HP GT52 3-pack Cyan/Magenta/Yellow Original Ink Bottles X4E44AL. For more information about fill and yield, see http://www.hp.com/go/learnaboutsupplies .
Output Capacity Max (photo paper)	Up to 30 sheets
Output Capacity, Max	Up to 30 sheets
Output Capacity, Max, Cards	Up to 30 cards
Output Capacity, Max, Envelopes	Up to 10 envelopes
Output Capacity, Std	Up to 30 sheets
Output Capacity, Std, Cards	Up to 30 cards

Output Capacity, Std, Envelopes	Up to 10 envelopes
Output Capacity, Std, Legal	Up to 30 sheets
Output File Format	JPEG
Package Dimensions W x D x H (imperial)	19.49 x 7.8 x 18.82 in
Package Dimensions W x D x H (metric)	495 x 198 x 478 mm
Package Weight (imperial)	15.89 lb to 16.73 lb depending on number of bottle/s included
Package Weight (metric)	7.2 kg to 7.6 kg depending on number of bottle/s included
Page Yield (set-up/inbox cartridges)	~6000 pages black, ~8,000 pages cyan, magenta, yellow composite yield
Page Yield in Draft Mode	(671)~8,000 pages Black, ~9,200 pages Color,(730)~16,000 pages Black, ~9,200 pages Color,(AC8)~16,000 pages Black, ~9,200 pages Color, (ACJ)~15,300 pages Black, ~9,200 pages Color,(AKH)~16,000 pages Black, ~9,200 pages Color,(AKY)~16,000 pages Black, ~9,200 pages Color, (BEW)~8,000 pages Black, ~9,200 pages Color,(BHG)~8,000 pages Black, ~9,200 pages Color[12]
Page Yield in Draft Mode Footnote	Draft page yields are approximate and were measured using “Draft” print-quality settings in the Windows/Mac driver, based on HP Methodology from the simulation of continuous printing of ISO/IEC 24712 pages. Actual page yield varies significantly depending on content printed, ink levels maintained in all four reservoirs, and other factors. For more information about fill and yield, see https://hp.com/go/learnaboutsupplies .
Pallet Dimensions (imperial)	47.99 x 40 x 94.09 in
Pallet Dimensions W x D x H (metric)	1200 x 1000 x 2390 mm
Pallet Weight (imperial)	950 lb to 1002 lb depending on number of bottle/s included
Pallet Weight (metric)	432 kg to 455 kg depending on number of bottle/s included
Paper Handling Standard/input	100-sheet input tray
Paper Handling Standard/output	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 Technologies	Auto Wireless Connect
Power Supply Required	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 Cartridge/Bottle, Color(s)	Black; Cyan; Magenta; Yellow
Print Cartridges/Bottle, Number	4 (1 each black bottle, set of 3 color bottles)
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, Standard	HP PCL 3 GUI; HP PCLm (HP Apps/UPD); URF (AirPrint)
Print Quality, Vertical Alignment Accuracy (imperial)	+/- 0.0008 in
Print Quality, Vertical Alignment Accuracy (metric)	+/- 0.02 mm
Print Speed (Draft, A4 Memo) Footnote Number	[7]
Print Speed Black (Draft, A4 Memo)	Up to 30 ppm
Print Speed Black (ISO)	Up to 12 ppm
Print Speed Black (draft, A4)	Up to 22 ppm
Print Speed Color (Draft, A4 Memo)	Up to 24 ppm
Print Speed Color (ISO)	Up to 5 ppm
Print Speed Color (draft, A4)	Up to 16 ppm
Print Speed Color Photo (normal, Photo Paper, 10x15 cm)	As fast as 76 sec
Print Speed Color Photo (normal, Photo Paper, 4x6 in)	As fast as 76 sec
Print Technology	HP Thermal Inkjet
Printable Area Maximum (metric)	216 x 355 mm
Printer Drivers Included	HP PCL 3 GUI
Printer Management	No
Processor Speed	980 MHz
Product Color Description (fixed)	Medium Basalt Body, Light Basalt Accent
Product Dimensions with Trays Up W x D x H (metric)	434.66 x 361.53 x 157.26 mm
Product Logos	Hi-speed USB certified; Mopria-certified; Wi-Fi certified; IPP Everywhere; AirPrint; App Store; Works with Android; Get it on google play; Get it from Microsoft; PAP 20; Fragile; Keep out of Rain; This side up
Product Long Name Specifications	HP Smart Tank 581 All-in-One Printer, Color Printer for Home, Print, copy, scan, Wireless; High-volume printer tank; Print from phone or tablet; Scan to PDF
Product Name (back)	Smart Tank 581 Wireless All-in-One
Product Name (front)	Smart Tank 581 Wireless All-in-One
Product Name (primary)	Smart Tank 581 Wireless All-in-One
Product Name (secondary)	Smart Tank 581 Wireless All-in-One
Product Short Name Specifications	HP Smart Tank 581 Wireless All-in-One Color Printer, Copier, Scanner

Quantity Per Pallet	60
RMN Number	SNPRC-2201-01
Recommended Monthly Page Volume	400 to 800
Recommended Monthly Page Volume Note	HP recommends the number of pages printed not exceed the recommended monthly page volume for optimum device performance.
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 .
Safety Approvals and Requirements	IEC 60950-1 & IEC62368-1 compliant; EU RED and EN 60950-1 & EN 62368-1 compliant; Singapore Safety; China CCC; Taiwan BSMI
Scan Resolution, Enhanced	Up to 1200 dpi
Scan Resolution, Hardware	Up to 1200 x 1200 dpi
Scan Resolution, Optical	Up to 1200 dpi
Scan Size Maximum (flatbed, imperial)	8.5 x 11.69 in
Scan Size Maximum (flatbed, metric)	216 x 297 mm
Scanning Options (ADF)	Not Applicable
Security Management	No
Segment (filter)	Home
Send To Email Capability	No
Service and Support Options	Protect your investment—HP Total Care offers a variety of extended warranties and services, go to http://www.hp.com/support
Standard Media Sizes (duplex, Imperial)	Letter; Executive
Standard Media Sizes (duplex, metric)	A4; B5
Standard Media Sizes Supported (imperial)	Letter; legal; 4 x 6 in; 5 x 7 in; 8 x 10 in; No. 10 envelopes
Standard Media Sizes Supported (metric)	A4; B5; A6; DL envelope, legal
Standard Memory	64 MB Integrated DDR1
Storage Device and Direct Print Support	Wireless Direct Printing
Storage Temperature Range (celsius)	-40 to 60°C
Storage Temperature Range (fahrenheit)	-40 to 140°F

Sub-Brand Name	Smart Tank
System Requirements Recommended Macintosh	Apple® macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; 2 GB HD; Internet required
System Requirements, Macintosh, Minimum	macOS Tahoe 26, macOS Sequoia 15, macOS Sonoma 14, 2 GB SSD, Internet
System Requirements, Minimum	Windows 11, Windows 10, 1 GHz processor, 2 GB SSD, Internet
System Requirements, Recommended	Microsoft® Windows® 11, 10; Internet connection, Microsoft® Internet Explorer or Edge.
Target Number of Users and Print Volume	For teams up to 3 users; Prints up to 800 pages/month
Tariff Numbers	NA/EMEA: 8443310000; AP China: 8443319010
Technology	Ink
Telecom Compliance Certifications	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
Twain Version	Version 2.4
UNSPSC Code	43212104
UPC Number	(671) 196548866960; (730) 198701840824; (AC8) 196548866977; (ACJ) 197192202968; (AKH) 196548866984; (AKY) 196548866991; (BEW) 196548867004; (BHG) 196548867011
Video Action Printing Supported	No
Wireless Technology	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.

[6] Average based on ISO/IEC 24711 or HP testing methodology and continuous printing. Actual yield varies considerably based on content of printed pages and other factors. For details see http://hp.com/go/learnaboutsupplies

[12]Draft page yields are approximate and were measured using “Draft” print-quality settings in the Windows/Mac driver, based on HP Methodology from the simulation of continuous printing of ISO/IEC 24712 pages. Actual page yield varies significantly depending on content printed, ink levels maintained in all four reservoirs, and other factors. For more information about fill and yield, see https://hp.com/go/learnaboutsupplies .

Ink/Toner/Paper/Printer Supplies

Ink Supplies

★ : Recommended

HP Inkjet Printer Cartridges and Ink Supplies

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

HP Ink Bottles

HP GT52 3-pack Cyan/Magenta/Yellow Original Ink Bottles	X4E44AL
HP GT52 Cyan Original Ink Bottle	M0H54AA
HP GT52 Cyan Original Ink Bottle	M0H54AE
HP GT52 Cyan Original Ink Bottle	M0H54AL
HP GT52 Magenta Original Ink Bottle	M0H55AA
HP GT52 Magenta Original Ink Bottle	M0H55AE
HP GT52 Magenta Original Ink Bottle	M0H55AL
HP GT52 Yellow Original Ink Bottle	M0H56AA
HP GT52 Yellow Original Ink Bottle	M0H56AE
HP GT52 Yellow Original Ink Bottle	M0H56AL
HP GT53 90-ml Black Original Ink Bottle	1VV22AA
HP GT53 90-ml Black Original Ink Bottle	1VV22AL
HP GT53/GT52 Ink Bottle Combo 4-Pack	7K3W9AA
HP GT53/GT52 Ink Bottle Combo 4-Pack	9F3N4AL
HP GT53XL 135-ml Black Original Ink Bottle	1VV21AA
HP GT53XL 135-ml Black Original Ink Bottle	1VV21AE
HP GT53XL 135-ml Black Original Ink Bottle	1VV21AL

HP Photo Papers

HP Photo Papers for inkjet

HP Matte Photo Paper 180 g/m2 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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