



HP Smart Tank Wireless 450 (Z6Z96A)

Overview



Up to 8,000 color or 6,000 black pages,[1] up to two years of ink,[2] and easy mobile printing.[6]

Get up to two years of ink and easy mobile printing with one simple purchase.[2,6] Print up to 8,000 color and 6,000 black pages[1] from a spill-free ink system[7] – and produce outstanding quality.

Out-of-the-box convenience

Long-lasting print performance with up to two years of ink in the box.[2]

No mess. No waste.

Easily refill your ink tank system with spill-free, resealable bottles.[7]

Exceptional HP quality

Count on darker, crisper text, time after time.[4]

Easy mobile printing and scanning

Print from your smartphone, and scan and share from virtually anywhere.[3]

Features

Long-lasting print performance^[2]

Engineered for high-volume printing^[1]

The power of your printer in the palm of your hand^[3]

Your device, your choice^[6]

More pages for your money

High-capacity ink tank system

[1] 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 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://hp.com/go/learnaboutsupplies>.

[2] Based on median customer ink usage for HP DeskJet GT 5820 WL printer.

[3] Requires the HP Smart app download. Features controlled may vary by mobile device operating system. Full list of supported operating systems and details at <http://support.hp.com/us-en/document/c03561640>. For details on local printing requirements see <http://hp.com/go/mobileprinting>.

[4] Based on HP internal optical density testing comparing with HP DeskJet 5800 series with HP 51 and HP 52 inks.

[6] For details on local printing requirements see <http://hp.com/go/mobileprinting>.

[7] When used in accordance with set up instructions.

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 on selected HP photo papers and 1200 input dpi)
Print speed black (ISO, A4)	Up to 8 ppm
Print speed black (ISO, letter)	Up to 8 ppm
Print Speed Color (ISO)	Up to 5 ppm
Print speed	Print speed up to 8 ppm (black) and 5 ppm (color)
Functions	Print, copy, scan, wireless
Duplex printing	Manual (driver support provided)
Duty cycle (monthly, A4)	Up to 1000 pages
Duty cycle (monthly, letter)	Up to 1000 pages
Scanner advanced features	No
Fax smart software features	No
Replacement cartridges	Ink Bottles: HP 30(Black), HP 31 (Cyan), HP 31(Yellow), HP 31 (Magenta) ^[6]
Connectivity, standard	1 Hi-Speed USB 2.0
Modem	None
Network capabilities	None
Wireless capability	Yes
Mobile printing capability	Yes
Network protocols, supported	9100 Direct IP, LPR, Embedded Web Server, SNMP, SLP, WS-Print
Software included	HP Printer Software,HP Photo Creations
Compatible Operating Systems	Windows 10, 8.1, 8, Windows Vista, Windows XP SP3 or higher (32-bit only), OS X v10.10 Yosemite, OS X v10.11 El Capitan, macOS Sierra v10.12 (previously OS X) ^[7]
Sustainable impact specifications	No
Energy star certified	Yes
Scan speed (normal, A4)	Up to 21 seconds
Scan speed (normal, letter)	Up to 21 seconds
Scan file format	JPEG, TIFF, PDF, BMP, PNG
Scan input modes	Scanning via HP Photosmart Software
Scan technology	Contact Image Sensor (CIS)
Scanner type	Flatbed
Display	7 segment + icon LCD
Minimum dimensions (W x D x H)	525 x 310 x 158 mm

Minimum dimensions (W x D x H) 20.67 x 12.20 x 6.22 in

Weight 4.67 kg

Weight 10.27 lb

Power consumption 10 watts maximum, 0.07 watts (Off), 2.1 watts (Standby), 0.88 watt (Sleep)^[2]

Power supply type Internal

What's in the box HP Smart Tank Wireless 450; HP 30 Black Ink Bottle (135 CC) (~6000 pages); HP 31 Cyan Ink Bottle (70CC); HP 31 Magenta Ink Bottle (70CC); HP 31 Yellow Ink Bottle (70CC) (Composite color yield ~8000 pages); Regulatory flyer; Setup Poster; Power Cord. [For ink volume and page yield information, visit <http://hp.com/go/learnaboutsupplies>]

Additional specifications

Accessories	None
Acoustic power emissions (active copy)	7.1 B(A) (copying at 25 ppm with ADF running)
Acoustic power emissions (active, printing)	6.0 B(A)
Acoustic pressure emissions	52 dB
Automatic document feeder capacity	No
Bit depth	24-bit
Borderless printing	Yes, up to 8.5 x 11 in (US letter), 210 x 297 mm (A4)
Bottom margin (A4)	3 mm
Cable included	No, please purchase (USB) cable separately
Camera phone description	No
Camera phone supported	No
Color copy capability	Yes
Color scanning	Yes
Color(s) of printing supplies	Black, Cyan, Magenta, Yellow
Compliance alliances	None
Control panel	7 LEDs and 9 buttons, also with one ICON LCD for display
Copier settings	Auto-enlarge
Copies, maximum	Up to 9 copies
Copy reduce / enlarge settings	fit to page
Copy speed black (ISO)	6.5 cpm
Copy speed color (ISO)	2 cpm
Count of cartons per pallet layer	LAR, AP: 5
Count of layers in pallet	LAR, AP: 9
Country of origin	Made in China
Dimensions with trays up (W x D x H)	525 x 310 x 158 mm
Electromagnetic compatibility	CISPR 22: 2008/EN 55022: 2010 Class B, CISPR24: 2010/EN 55024: 2010, EN 61000-3-2: 2006+ A1:2009+ A2:2009, EN 61000-3-3: 2013, FCC CFR 47 Part 15 Class B; ICES-003, Issue 5 Class B; GB4943.1-2011 (CCC S&E - China), CNS 14336: 1999 & CNS13438 (BSMI-Taiwan), VCCI-2 (Japan), GOST (Russia); KCC (Korea)
Enhanced scanning resolution	Up to 1200 dpi
Envelope Feeder	No

Fax phone TAM interface supported	No
Fax phone features	No
Finished output handling	Sheetfed
First page out black (A4, ready)	As fast as 14 sec
First page out black (letter, ready)	As fast as 14 sec
First page out color (A4, ready)	As fast as 18 sec
First page out color (letter, ready)	As fast as 18 sec
Geographic availability	WW
HP Real Life technologies™	Supported
Ink types	Dye-based (color); pigment-based (black)
Input capacity	Up to 60 sheets
Left margin (A4)	3 mm
Levels of grayscale	256
Mac compatible	Yes
Maximum Input Capacity (envelopes)	Up to 5 envelopes
Maximum Memory	Integrated
Maximum dimensions (W x D x H)	525 x 553.5 x 256.6 mm
Maximum dimensions (W x D x H)	20.67 x 21.79 x 10.10 in
Maximum input capacity (10x15cm photos)	Up to 20 sheets
Maximum input capacity (4x6 photo)	Up to 20 sheets
Maximum input capacity (cards)	Up to 20 cards
Maximum input capacity (labels)	Up to 10 sheets
Maximum input capacity (photo paper)	Up to 20 sheets
Maximum input capacity (sheets)	Up to 60 sheets
Maximum input capacity (transparencies)	No
Maximum output capacity (cards)	Up to 20 cards
Maximum output capacity (envelopes)	Up to 5 envelopes
Maximum output capacity (labels)	Up to 25 sheets
Maximum output capacity (photo paper)	Up to 20 sheets
Maximum output capacity (sheets)	Up to 25 sheets
Maximum print area	221 x 355 mm

Media sizes supported	A4; B5; A6; DL envelope
Media sizes supported	Letter; legal; 4 x 6 in; 5 x 7 in; 8 x 10 in; No. 10 envelopes
Media sizes, custom	76.2 x 127 to 215 x 355 mm
Media sizes, custom	3 x 5 to 8.5 x 14 in.
Media types	Plain Paper, HP Photo Papers, HP Matte Brochure or Professional Paper, HP Matte Presentation Paper, HP Glossy Brochure or Professional Paper, Photo Inkjet Papers, Matte Inkjet Papers, Glossy Inkjet Papers
Media weight, recommended	80 g/m ²
Media weight, recommended	25 lb
Media weight, supported	A4: 60 to 90 g/m ² ; HP envelopes: 75 to 90 g/m ² ; HP cards: up to 200 g/m ² ; HP 10 x 15 cm photo paper: up to 300 g/m ²
Memory	Integrated
Memory Slots	None
Minimum System Requirements	Windows XP SP3 or higher (32-bit only): any Intel Pentium II, Celeron or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8
Minimum System Requirements for Macintosh	OS X v10.10 Yosemite, 1.5 GB available space, internet access; OS X v10.11 El Capitan, 1.5 GB available space, internet access; macOS Sierra v10.12 (previously OS X), 1.5 GB available space, internet access
Multitasking supported	No
Non-Operating Humidity Range	10 to 90% RH (non-condensing)
Number of print cartridges	1 black bottle, set of 3 color bottles
Number of users	1-3 Users
Operating humidity range	20 to 80% RH (non-condensing)
Operating temperature range	46 to 104°F
Operating temperature range	10 to 40°C
Orderable supplies	HP 30 Black Ink Bottle, HP 31 Cyan Ink Bottle, HP 31 Magenta Ink Bottle, HP 31 Yellow Ink Bottle (70CC)
Output capacity	Up to 25 sheets
Output file format	No
Package dimensions (W x D x H)	591 x 396 x 203 mm
Package dimensions (W x D x H)	23.27 x 15.59 x 7.99 in
Package weight	5.88 kg
Package weight	12.95 lb
Pallet dimensions	20.67 x 12.20 x 6.22 in
Pallet dimensions (W x D x H)	LAR, AP: 1220 x 1016 x 1964 mm
Pallet weight	LAR, AP: 629 lb
Pallet weight	LAR, AP: 285 kg
Paper handling input, standard	60-sheet input tray

Paper handling output, standard	25-sheet output tray
Paper trays, maximum	1
Paper trays, standard	1
PictBridge description	No
PictBridge supported	No
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	11
Print head nozzles	328 (Black), 588 (Tri-color)
Print heads	2 (1 black, 1 Tri-color [cyan, magenta, yellow])
Print languages	HP PCL 3 GUI
Print speed black (ISO)	Up to 8 ppm
Print speed black (draft, A4)	Up to 19 ppm
Print speed black (draft, letter)	Up to 19 ppm
Print speed color (ISO)	Up to 5 ppm
Print speed color (draft, A4)	Up to 15 ppm
Print speed color (draft, letter)	Up to 15 ppm
Print technology	HP Thermal Inkjet
Printer drivers included	HP PCL 3 GUI
Processor speed	365 MHz
Product logos	ENERGY STAR®; Works with Microsoft Vista; Windows 7; Windows 8; Mac Smiley; Mac Universal; Hi-Speed USB; PAP 20; Fragile; Keep out of Rain; This side up; stacking height (7); recycle; ColorLok; Smartway (NA only); Eco highlights; HP Total Care
Quantity per pallet	LAR, AP: 45
Recommended Macintosh system requirements	OS X v10.10 Yosemite, 1.5 GB available space, internet access; OS X v10.11 El Capitan, 1.5 GB available space, internet access; macOS Sierra v10.12 (previously OS X), 1.5 GB available space, internet access
Recommended monthly page volume	400 to 800
Recommended monthly page volume note	Up to 1000 pages
Recommended operating humidity range	25 to 80% RH
Recommended operating temperature range	59 to 86°F
Recommended operating temperature range	15 to 30°C

Right margin (A4)	3 mm
Scan resolution, hardware	Up to 1200 x 1200 dpi
Scan resolution, optical	Up to 1200 x 1200 dpi
Scan size, maximum	8.5 x 11.69 in
Scanning options (ADF)	Not Applicable
Security management	No
Send to email capability	No
Standard input capacity (cards)	Up to 20 cards
Standard input capacity (envelopes)	Up to 10
Standard input capacity (legal)	Up to 60 sheets
Standard input capacity (secondary tray)	Not Applicable
Standard input capacity (transparencies)	No
Standard media sizes (duplex)	Not Applicable
Standard media sizes (duplex, imperial)	Not Applicable
Standard output capacity (cards)	Up to 20 cards
Standard output capacity (envelopes)	Up to 5 envelopes
Standard output capacity (labels)	Up to 10 sheets
Standard output capacity (legal)	Up to 25 sheets
Storage device and direct print support	Storage devices not supported
Storage temperature range	-40 to 60°C
Storage temperature range	-40 to 140°F
SureSupply supported	Yes
System requirements, recommended	Windows 10, 8.1, 8, 7: 1 GHz 32-bit (x86) or 64-bit (x64) processor, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. Windows Vista: 800 MHz 32-bit (x86) processor, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8. Windows XP SP3 or higher (32-bit only): any Intel Pentium II, Celeron or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8
Target user and print volume	For teams up to 3 users; Prints up to 800 pages/month
Tariff numbers	NA/EMEA: 8443310000; AP: 84433111
Top margin (A4)	3 mm
Twain version	Version 2.1
UPC number	191628766406

Vertical alignment accuracy +/- 0.00172 in

Vertical alignment accuracy +/- 0.042 mm

Video action printing supported No

[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] Up to 8000 color or 6000 black pages included : 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 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://hp.com/go/learnaboutesupplies>

[7] Windows Server support is provided via the command line installer - Windows Server 2008 32-bit (SP1 or greater), Windows Server 2008 64-bit (SP1 or greater), Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2016

Ink Supplies

★ : Recommended

HP Inkjet Printer Cartridges and Ink Supplies

HP 30 135-ml Black Original Ink Bottle	1VU29AA
HP 31 70-ml Cyan Original Ink Bottle	1VU26AA
HP 31 70-ml Cyan Original Ink Bottle	1VU26AE
HP 31 70-ml Magenta Original Ink Bottle	1VU27AA
HP 31 70-ml Magenta Original Ink Bottle	1VU27AE
HP 31 70-ml Yellow Original Ink Bottle	1VU28AA
HP 31 70-ml Yellow Original Ink Bottle	1VU28AE
HP 3YP61AE Black/Tri-color GT Printhead Kit	3YP61AE
HP 3YP86AL Black/Tri-color GT Printhead Kit	3YP86AL
HP 6ZA11AE Black Printhead	6ZA11AE
HP 6ZA18AE Tri-color Printhead	6ZA18AE
HP GT51 2-pack Black Original Ink Bottles	X4E43AL
HP GT51 Black Original Ink Bottle	M0H57AA
HP GT51 Black Original Ink Bottle	M0H57AL
HP GT51/GT52 2-pack Black/Tri-color Printhead Replacement Kit	3JB06AA
HP GT51XL 135-ml Black Original Ink Bottle	X4E40AA
HP GT51XL 135-ml Black Original Ink Bottle	X4E40AE
HP GT51XL 135-ml Black Original Ink Bottle	X4E40AL
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 M0H50A Tri-color Replacement GT Printhead	M0H50AA
HP M0H50A Tri-color Replacement GT Printhead	M0H50AL

HP M0H51A Black Replacement GT Printhead	M0H51AA
HP M0H51A Black Replacement GT Printhead	M0H51AL
HP X4E75A Black Ink tank Printhead	X4E75AA
HP X4E75A Black Ink tank Printhead	X4E75AL

HP Paper Designed for Inkjet Printers

HP Inkjet Photo Paper

HP Advanced Glossy Photo Paper-15 sht/4 x 6 in	3HX58A
HP Advanced Glossy Photo Paper-25 sht/4 x 6 in borderless	3AG54A
HP Advanced Glossy Photo Paper-25 sht/5 x 7 in	3AG55A
HP Advanced Glossy Photo Paper-50 sht/4 x 6 in	F4T22A
HP Matte Photo Paper-25 sht/10 x 15 cm	7HF70A
HP Matte Photo Paper-25 sht/4 x 6 in	6QH46A
HP Rounded Corner Photo Paper/15 sht/5 x 7 in	3WL67A

HP Inkjet Brochure Paper

HP Enhanced Business Inkjet Matte FSC Paper 150 gsm-150 sht/Letter/8.5 x 11 in	9ZE20A
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HP Professional Inkjet Paper

HP Professional Inkjet Matte FSC Paper 180 gsm-150 sht/A4/210 x 297 mm	7MV79A
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HP Paper for Multiple Uses

HP Multi-use Professional Paper

HP Professional Multi-use Glossy FSC Paper 180 gsm-150 sht/A3/297 x 420 mm	7MV84A
HP Professional Multi-use Glossy FSC Paper 180 gsm-150 sht/Letter/8.5 x 11 in	Q1987A
HP Professional Multi-use Glossy FSC Papers 180 gsm-150 sht/A4/210 x 297 mm	3VK91A
HP Professional Multi-use Glossy Tri-fold FSC Paper 180 gsm-150 sht/8.5 x 11 in	4WN12A

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