HP Color Laser MFP 178nw (4ZB96A)

Announced. Active on 12/1/9998

Detailed Specifications

Acoustic power emissions (active scan)
6.2 B(A) (Scanning at 18 ipm with ADF only)

Acoustic power emissions (active, printing)
6.5 B(A) (printing at 18 ppm with Mono mode); 6.1 B(A) (printing at 4 ppm with Color mode)

Automatic paper sensor
No

Bit depth
8-bit (mono); 24-bit (color)

Blue Angel compliant
Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies

Bottom margin (A4)
5 mm

Cable included
Yes, 1 USB

Certifications and compliances
UL listed, CSA (Canada), CE Marking, Nemko, Fimko, Demko, Semko, Eastern European

Code name
Jolt

Color scanning
Yes

Compatible Network Operating Systems
Windows®: 7 (32/64 bit), 2008 Server R2, 8 (32/64 bit), 8.1 (32/64 bit), 10 (32/64 bit), 2012 Server, 2016 Server, macOS v10.14 Mojave, macOS v10.13 High Sierra, macOS v10.12 Sierra, OS X v10.11 El Capitan

Compatible Operating Systems
Windows®: 7 (32/64 bit), 2008 Server R2, 8 (32/64 bit), 8.1 (32/64 bit), 10 (32/64 bit), 2012 Server, 2016 Server, macOS v10.14 Mojave, macOS v10.13 High Sierra, macOS v10.12 Sierra, OS X v10.11 El Capitan

Connectivity, optional
None

Connectivity, standard
Hi-speed USB 2.0 port, Fast Ethernet 10/100Base-Tx network port, Dual band Wireless 802.11 b/g/n

Control panel
2-Line LCD; 13 Buttons(Power, Cancel, Start(Mono/Color), Navigation(Menu, OK, Back, Left, Right), ID_Copy, Contrast, Scan to, Wireless); LED indicator lights(Power, Status, Wireless)

Copier settings
Copies; Original Size; Reduce/Enlarge; Darkness; Original Type; Collation; 2-Up; 4-Up; ID Copy; Adjust Background; Auto Fit Copy; Color Mode

Copier smart software features
Automatic adjusting background; Extended layout(2-up, 4-up, ID copy); expanded contrast adjustments (11 different settings);Scale from one paper size to another(Letter>A4, AutoFit)

Copies, maximum
Up to 999 copies

Copy reduce / enlarge settings
25 to 400%

Copy resolution (black text)
Up to 600 x 600 dpi (flatbed); Up to 600 x 600 dpi

Copy resolution (color text and graphics)
Up to 600 x 600 dpi (flatbed); Up to 600 x 600 dpi

Copy speed (black, normal quality, A4)
Up to 14 cpm

Copy speed (color, normal quality, A4)
Up to 4 cpm

Copy speed black (normal, letter)
Up to 14 cpm

Copy speed color (normal, letter)
Up to 4 cpm

Copy speed footnote number
[9]

Count of cartons per pallet layer
4

Count of layers in pallet
6

Country of origin
Made in China (178nw and cartridges)(#AB0); (#AB2); (#ACJ); (#BBU); (#BGM); (#BGJ); (#ABT); (#ABY); (#ACQ); (#B19); (#BAZ)

Datasheet photo 1
Publication photos/4ZB96A.jpg

Digital sending standard features
Scan to WSD; PC Scan

Dimension note (imperial)
Dimensions vary as per configuration

Dimension(W x D x H) Footnote Number
[2]

Dimensions (W x D x H) Note
Dimensions vary as per configuration

Display
2-Line LCD

Display area (imperial)
2.57 x 0.58 in

Display area (metric)
65.5 x 14.8 cm

Downloadable software
V3 Print Driver with Lite SM, TWAIN/WIA Driver, HP MFP Scan, OCR program, HP LJ PC-FAX (Only for 4-in-1 model)

Driver updates
Latest supported operating systems and print drivers available at https://support.hp.com

Duplex printing
Manual (driver support provided)

Duty cycle (monthly, A4)
Up to 20,000 pages

Duty cycle (monthly, letter)
Up to 20,000 pages

Duty cycle note
Duty cycle is defined as the maximum number of pages per month of imaged output.

Electromagnetic compatibility
EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN55024: 2010, EN 55032: 2012/AC: 2013, 47 CFR Part 15, Subpart B I ANSI C63.4-2009, ICES-003 Issue 5, KN32, KN35, GB/T 9254-2008, GB17625.1-2012, CISPR22:

2008, CISPR32: 2012, CNS 13438 (Other EMC approvals as required by individual countries.)

Energy efficiency compliance footnote number
[16]

Energy savings feature technology
HP Auto-Off Technology

Energy star certified
No

Enhanced scanning resolution
Up to 19,200 dpi

Envelope Feeder
No

Environmental
Mercury free

FCC Class A emissions
FCC Class A emissions - for use in commercial environments, not residential environments

Finished output handling
Sheetfed

First copy out black (A4)
As fast as 12.6 sec

First copy out black (A4, sleep)
As fast as 20 sec (15min)

First copy out black (letter)
As fast as 12.6 sec

First copy out black (letter, sleep)
As fast as 20 sec (15min)

First copy out color (A4)
As fast as 32.1 sec

First copy out color (A4, sleep)
As fast as 40 sec (15min)

First copy out color (letter)
As fast as 32.1 sec

First copy out color (letter, sleep)
As fast as 40 sec (15min)

First page out black (A4, ready)
As fast as 12.4 sec

First page out black (A4, sleep)
As fast as 13 sec (15 min)

First page out black (letter, ready)
As fast as 12.4 sec

First page out black (letter, sleep)
As fast as 13 sec (15 min)

First page out color (A4, ready)
As fast as 25.3 sec

First page out color (A4, sleep)
As fast as 26 sec (15 min)

First page out color (letter, ready)
As fast as 25.3 sec

First page out color (letter, sleep)
As fast as 26 sec (15 min)

First page out footnote
Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

First page out footnote number
[12]

Functions
Print, copy, scan

Image legal disclaimer
Product image may differ from actual product

Input capacity
Up to 150 sheets

Left margin (A4)
5 mm

Levels of grayscale
256

Mac compatible
Yes

Maximum dimensions (W x D x H)
15.98 x 16.65 x 11.37 in

Maximum dimensions (W x D x H)
406 x 422.9 x 288.7 mm

Maximum input capacity (sheets)
Up to 150 sheets

Maximum Memory
128 MB

Maximum output capacity (sheets)
Up to 50 sheets

Maximum print area
216 x 356 mm

Media size, tray 1
A4; A5; A6; B5 (JIS); Oficio 216 x 340, 76 x 148.5 to 216 x 356 mm

Media sizes supported
Tray 1: Letter, Legal, Executive, Oficio 8.5 x 13, 4 x 6. Tray 2: Not supported; Optional Automatic Duplexer: Not Supported

Media sizes supported
Tray1: A4; A5; A6; B5 (JIS); Oficio 216 x 340. Tray2: Not supported; Optional Automatic duplexer: Not supported

Media sizes supported, key
10 x 15 cm; A4

Media sizes supported, key
4 x 6 in; Letter; Legal

Media sizes, custom
3 x 5.85 to 8.5 x 14 in

Media sizes, custom
76 x 148.5 to 216 x 356 mm

Media type and capacity, tray 1
Sheets (75 g/m²): 150

Media types
Plain, Light, Heavy, Extra Heavy, Colored, Preprinted, Recycle, Labels, Bond, Glossy

Media weight (tray 1)
60 to 220 g/m²

Media weight, supported
16 to 59 lb

Media weight, supported
60 to 220 g/m²

Memory
128 MB

Memory footnote
Maximum Memory is 128 MB(Not Extended)

Minimum dimensions (W x D x H)
15.98 x 14.29 x 11.37 in

Minimum dimensions (W x D x H)
406 x 363 x 288.7 mm

Minimum System Requirements
Windows 7 or newer, Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher, 1 GB RAM, 16 GB HDD

Minimum System Requirements for Macintosh
OS X v10.11 or newer, 1.5 GB HD, Internet, USB

Mobile printing capability
HP Smart App; Apple AirPrint™; Mobile Apps; Google Cloud Print™; Wi-Fi® Direct Printing; Mopria™ Certified

Mobile printing capability footnote
May require a firmware upgrade to be compatible, download at http://www.hp.com/go/support

Mobile printing capability footnote number
[8]

Native scan file format
PDF; JPG; TIFF

Network capabilities
Via built-in 10/100 Base-TX networking

Network protocols, supported
Via built-in networking solution: TCP/IP, IPv4, IPv6; print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), WSD; discovery: SLP, Bonjour, WS-Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); management: SNMPv1/v2/v3, HTTP

Number of print cartridges
4 (1 each black, cyan, magenta, yellow)

Number of users
1-5 Users

Operating humidity range
10 to 80% RH (non-condensing)

Operating system (supported note)
Windows 7 or higher

Operating system supported footnote number
[14]

Operating temperature range
10 to 30℃

Operating temperature range
50 to 86°F

Orderable supplies
HP 120A Original Laser Imaging Drum for WW W1120A, HP 132A Original Laser Imaging Drum for China W1132A, HP Laser Toner Collection Unit for WW 5KZ38A, HP Laser Toner Collection Unit for China 5LX86A

Output capacity
Up to 50 sheets

Package dimensions (W x D x H)
19.7 x 18.3 x 15.6 in

Package dimensions (W x D x H)
501 x 466 x 398 mm

Package weight
16.08 kg

Package weight
35.45 lb

Page yield footnote
Declared yield value in accordance with ISO/IEC 19798. Actual yields vary considerably based on images printed and other factors. For more information, visit http://www.hp.com/go/learnaboutsupplies

Page yield footnote number
[7]

Pallet dimensions
39.9 x 37.1 x 94.1 in

Pallet dimensions (W x D x H)
1014 x 944 x 2390 mm

Pallet weight
395 kg

Pallet weight
870 lb

Paper handling input, standard
150-sheet input tray

Paper handling output, standard
50-sheet output bin

Paper trays, maximum
1

Paper trays, standard
1

Power
110-volt input voltage: 110 to 127 VAC, 50/60 Hz and 220-volt input voltage: 220 to 240 VAC, 50/60 Hz

Power consumption
300 watts (Active Printing), 38 watts (Ready), 1.9 watts (Sleep), 0.2 watts (Manual off); 0.2 watts (Auto off/Manual on)

Power consumption footnote number
[5]

Power supply type
Internal (Built-in) power supply

Print colors
Yes

Print languages
SPL

Print quality black (best)
Up to 600 x 600 dpi

Print quality black (normal)
Up to 600 x 600 dpi

Print quality color (best)
Up to 600 x 600 dpi

Print resolution color (normal)
Up to 600 x 600 dpi

Print Resolution Technologies
ReCP

Print speed
Print speed up to 19 ppm (black) and 4 ppm (color)

Print speed (A4/letter) footnote number
[11]

Print speed black (ISO, A4)
Up to 18 ppm

Print speed black (ISO, letter)
Up to 19 ppm

Print Speed Color (ISO)
Up to 4 ppm

Print speed color (ISO)
Up to 4 ppm

Print speed footnote
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see
http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software
application, driver, and document complexity.

Print technology
Laser

Print Technology
Laser

Printer smart software features
Manual duplex and booklet print, N-up printing, skip blank pages, poster print, watermarks

Processor speed
800 MHz

Product long name specifications
HP Color Laser MFP 100 Series Print: Up to 18 ppm black & 4 ppm color; Up to 600 x 600 x 2 bit dpi; Up to
20,000 pages per month duty cycle; 128 MB RAM

Quantity per pallet
24

Recommended monthly page volume
100 to 500

Recommended monthly page volume footnote number
[15]

Recommended monthly page volume note
HP recommends that the number of pages per month of imaged output be within the stated range for
optimum device performance, based on factors including supplies replacement intervals and device life over
an extended warranty period.

Recommended monthly scan volume
6250 to 10,500

Recommended monthly scan volume footnote number
[16]

Recommended monthly scan volume note
HP recommends that the number of scanned pages per month be within the stated range for optimum device
performance

Recommended operating humidity range
20 to 70% RH (non-condensing)

Recommended operating temperature range
15 to 27℃

Recommended operating temperature range
59 to 80.6℉

Replacement cartridges
HP 116A Original Laser Toner Cartridges (black ~1000 pages/color ~700 pages)

Replacement cartridges footnote
Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing.
Actual yields vary considerably based on images printed and other factors. For details see
http://www.hp.com/go/learnaboutsupplies.

Replacement cartridges footnote number
[6]

Resolution
Up to 600 dpi

Right margin (A4)
5 mm

RMN number
SEOLA-1801-03

Safety
IEC 60950-1: 2005 +A1: 2009 +A2 2013 (International); EN 60950-1: 2006 +A11: 2009 +A1: 2010 +A12: 2011 +A2: 2013 (EU); IEC/EN 60825-1: 2014 (Class 1 Laser Product); EN 62479: 2010 /IEC 62749: 2010; Low Voltage Directive 2006/95/EC with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2014-10; Compliance with Laser safety standards 21 CFR 1002.10 and 1002.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007; Other safety approvals as required by individual countries

Scan file format
PDF, JPG, TIFF

Scan input modes
Front-panel scan and copy via HP MFP Scan Software. User applications via TWAIN or WIA

Scan resolution, hardware
Up to 4,800 x 4,800 dpi

Scan resolution, optical
Up to 600 × 600 dpi

Scan size, maximum
216 x 297 mm

Scan size, maximum
8.5 x 11.7 in

Scan speed (normal, A4)
Up to 15 ipm (b&w), up to 6 ipm (color)

Scan speed duplex (normal, A4)
Up to 15 ipm (b&w), up to 6 ipm (color)

Scan technology
Contact Image Sensor (CIS)

Scanner advanced features
Scan to WSD (network support only);Book Scanning; Poster Stitching for multiple scan; Text Converting; Scan to E-Book; Existing File to E-Book

Scanner type
Flatbed

Security management
Password-protected network embedded Web server; enable/disable Network ports; SNMPv1 community password change; SNMPV2&V3; IPSec; Filtering : MAC, IPv4, IPv6

Services (Care Pack)
UB4W6E - HP 2 year Onsite Exchange Service for Color Laser 15x and 17x MFP; UB4W7E - HP 3 year Onsite Exchange Service for Color Laser 15x and 17x MFP; UB4W8E - HP 4 year Onsite Exchange Service for Color Laser 15x and 17x MFP; UB4W9E - HP 2 year Next Business Day Exchange Service for Color Laser 15x and 17x MFP; UB4X0E - HP 3 year Next Business Day Exchange Service for Color Laser 15x and 17x MFP; UB4X1E - HP 4 year Next Business Day Exchange Service for Color Laser 15x and 17x MFP; UB4X2E - HP 2 year Standard Exchange Service for Color Laser 15x and 17x MFP; UB4X3E - HP 3 year Standard Exchange Service for Color Laser 15x and 17x MFP; UB4X4E - HP 4 year Standard Exchange Service for Color Laser 15x and 17x MFP; UB4X5E - HP 2 year Return to Depot Service for Color Laser 15x and 17x MFP; UB4X6E - HP 3 year Return to Depot Service for Color Laser 15x and 17x MFP; UB4X7E - HP 4 year Return to Depot Service for Color Laser 15x and 17x MFP

Software included
Common Installer, V3 Print Driver with Lite SM, TWAIN/WIA Driver, HP MFP Scan, OCR program

Standard media sizes (duplex)
Not supported duplex, but only supported manual duplex.

Standard media sizes (duplex, imperial)
Not supported duplex, but only supported manual duplex.

Storage temperature range
-20 to 40℃

Storage temperature range

-4 to 104°F

SureSupply note
No

SureSupply supported
No

Target user and print volume
For teams up to 5 users; Prints up to 500 pages/month

Tariff numbers
8443310000; 8443310000; 84433131

Tech spec footnote
[1] Introductory cartridges included; yields 500 color composite (C/Y/M) and 700 black pages. Replacement cartridge average composite (C/Y/M) declared yield 700 and average black yield 1000 pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies.

Tech spec footnote
[10] 128 MB (DDR3-1333)

Tech spec footnote
[11] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Tech spec footnote
[12] Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Tech spec footnote
[13] 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. Energy Star value typically based on measurement of 115V device and 230V for Blue Angel.

Tech spec footnote
[14] Windows 7 or higher

Tech spec footnote
[15] HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.

Tech spec footnote
[16] FCC Class A emissions - for use in commercial environments, not residential environments

Tech spec footnote
[17] HP recommends that the number of scanned pages per month be within the stated range for optimum device performance

Tech spec footnote
[2] Dimensions vary as per configuration

Tech spec footnote
[3] Weight varies as per configuration

Tech spec footnote
[4] Weight varies as per configuration

Tech spec footnote
[5] 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. Power consumption values typically based on measurement of 115V device.

Tech spec footnote
[6] Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies.

Tech spec footnote
[7] Declared yield value in accordance with ISO/IEC 19798. Actual yields vary considerably based on images printed and other factors. For more information, visit http://www.hp.com/go/learnaboutsupplies

Tech spec footnote

[8] May require a firmware upgrade to be compatible, download at http://www.hp.com/go/support

Tech spec footnote

[9] First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Technology logo, print 1

Publication logos/AMS_ windows_10.jpg

Technology logo, print 2

Publication logos/AMS_mac_hires.jpg

Technology logo, print 3

Publication logos/AMS_WiFi.jpg

Technology logo, print 4

Publication logos/AMS_USB_hi speed.jpg

Technology logo, print 5

Publication logos/AMS_Mopria.jpg

Technology logo, print 6

Publication logos/AMS_AirPrint.jpg

Telecom compliance (fax capability)

EBR21, FCC Prat 68

Top key features

Scan to PDF

Top margin (A4)

5 mm

Twain version

Version 1.9

Typical electricity consumption (TEC) footnote

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. Energy Star value typically based on measurement of 115V device and 230V for Blue Angel.

Typical electricity consumption (TEC) footnote number

[13]

Typical electricity consumption (TEC) number

0.876 kWh/Week (BA), 1.093 kWh/Week (ES)

UNSPSC code

43212110

UPC number

(696) 193015507166; (697) 193015507173; (AB0) 193015507180; (AB2) 193015507197; (ABT) 193015507203; (ABY) 193015507210; (AC8) 193015507227; (ACJ) 193015507234; (ACQ) 193015507241; (B19) 193015507258; (BAZ) 193015507265; (BBU) 193015507272; (BGJ) 193015507289; (B13)193905621613

Warm-up time

38 sec

Warranty

One-year limited hardware warranty; For more info please visit us at https://support.hp.com

Waste electrical and electronic weight

12.94 kg

Web address for additional information

http://www.hp.com/support/colorlaser170MFP

Weight

12.94 kg

Weight

28.53 lb

Weight (imperial) footnote number
[4]

Weight (metric) footnote number
[3]

Weight note (imperial)
Weight varies as per configuration

Weight note (metric)
Weight varies as per configuration

What is in the box footnote
Introductory cartridges included; yields 500 color composite (C/Y/M) and 700 black pages. Replacement cartridge average composite (C/Y/M) declared yield 700 and average black yield 1000 pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies.

What is in the box footnote number
[1]

What's in the box
HP Color Laser MFP 178nw Printer; HP LaserJet Black Introductory Toner Cartridge (~700 pages); HP LaserJet Cyan Introductory Toner Cartridge (~500 pages); HP LaserJet Magenta Introductory Toner Cartridge (~500 pages); HP LaserJet Yellow Introductory Toner Cartridge (~500 pages); Power Cord; USB Cable; Setup Guide; Reference Guide; Regulatory Statements Flyer.

Wireless capability
Yes, built-in Dual band Wi-Fi 802.11 b/g/n