

ISO/IEC 24734 Printing Productivity Report: Office Category  
 ISO/IEC 29183 Copying Productivity Report  
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports  
 HP PageWide Pro 452dn

Printing device and test settings	
Test Start Date and Time	02/12/16 2:37:32 PM
Test	Office Category
Machine product number	D3QJ5A
Machine name/model	HP PageWide Pro 452dn
DW Version	1.27.00000000.16480.00
Colour or B&W	Color
Temperature and humidity	73.2 Z3RH
Volume	110
Test End Date and Time	02/16/16 1:28:15 PM

Item	Value
Driver version	K19-38.3.1888
Media Quality Setting	Plain Normal
Simplex (B&W settings)	Black Ink Only
Duplex (B&W settings)	Black Ink Only
Setting to test count	Application
Collating function	Enabled
Paper sending direction	Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper path	Standard exit tray
Output orientation	Face Down
Duplicating ADF Unit	No
Duplicating Print Line	Yes
Paper Manufacturer	Hewlett Packard
Weight (gsm)	80gsm2
Size	A4
Paper type/name	LHP Office

Summary Reports

ISO/IEC 24734	FSOT (seconds)	ESAT (ipm)
Color	18	40
Two Sided	23	21
B&W	16	40
Two Sided	23	21

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black Ink Only  
 3) For Duplex B&W results, Black Ink Only  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	FCOT (seconds)	sESAT (ipm)
Color	N/A	N/A
B&W	N/A	N/A

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629	FPOT From Ready (sec)
Color	Simplex
B&W	Simplex

Notes: 1) For B&W results, Black Ink Only

Full Reports

ISO/IEC 24734	Office Category	FSOT (sec)	EFTP (ipm)			sESAT (ipm)
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	
Color	Single Sided	PDF (# sets)	14.00	18.00	33.00	38.50
		Word (# sets)	14.00	1	7	42
		Excel (# sets)	17.00			40.10
	Two Sided	Average	16			40
		PDF (# sets)	21.00	11.00	17.00	21.00
		Word (# sets)	20.00	1	7	20.90
B&W	Single Sided	PDF (# sets)	14.00	18.00	33.00	38.50
		Word (# sets)	14.00	1	7	42
		Excel (# sets)	17.00			40.10
	Two Sided	Average	16			40
		PDF (# sets)	21.00	11.00	17.00	20.90
		Word (# sets)	21.00	1	7	20.90
Average		23			21	

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black Ink Only  
 3) For Duplex B&W results, Black Ink Only  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	FCOT (sec)	sEFTP (ipm)			sESAT (ipm)
		1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1 (# copies)	N/A	N/A	N/A	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A
	Average	N/A	N/A	N/A	N/A
Black	Page 1 (# copies)	N/A	N/A	N/A	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A
	Average	N/A	N/A	N/A	N/A

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629	FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)	
Color Simplex	PDF	6:40	13:00	6:00
	Word	5:70		
	Excel	6:50		
	Average	7:00		
B&W Simplex	Delay Time	30 sec	70 min	
	PDF	5:30	13:00	7:10
	Word	5:40		
	Excel	6:40		
Average	6:59			
Delay Time	30 sec	70 min		

Notes: 1) For B&W results, Black Ink Only  
 2) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters

Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor PC
Processor	Intel Core i7-3770 Quad Core (3.40 GHz, 8 MB cache)
System Chip Set	Intel(R) Q77 Express Chipset
System Board	Standard system device, default system BIOS
System Memory	4 GB (4 x 1 GB DDR3 1600 MHz)
Hard Drive subsystem	1 TB Toshiba + 500 GB Seagate
Video subsystem	NVIDIA Quadro HD 6300
Optical Drive	HP DVD A, DH16AC-SHR, ATA
I/O subsystem	Built-in
USB subsystem	USB 2.0/3.0
Printer Connection	0
Operating System	Microsoft Windows 7 Professional 64-bit SP1
Printing Applications	Microsoft Office Pro Plus Word 2010 32-bit SP1 Microsoft Office Pro Plus Excel 2010 32-bit SP1 Adobe Reader X 10.1.2
Test Files and location	Office Category files, hard drive