

ISO/IEC 24734 Printing Productivity Report: Office Category
FDIS ISO/IEC 29183 Copying Productivity Report

Full Detailed Test Reports
HP Officejet Pro x451dn x451dn

Printing device and test settings		
Test Start Date and Time	02/26/13	12:00:00 AM
Tester	Keith Blauer	
Machine product number	x451dn	
Machine name/model	HP Officejet Pro x451dn	
FW Version	1245GR	
Colour or B&W	Color	
Temperature and humidity	Ambiant	
Voltage	110	
Test End Date and Time	02/26/13	12:00:00 AM

Item	Value
Modes and Settings	
Driver version	973
Media / Quality Setting	Default/Default
Simplex B&W settings	Black Ink Only
Duplex B&W settings	Black Ink Only
Setting N set count	Application
Collation function	Enabled
Paper Path	
Paper sending direction	Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Output orientation	face down
Duplexing ADF Unit	No
Duplexing Print Unit	Yes
Paper	
Paper Manufacturer	HP
Weight	80g/m2
Size	A4
Paper type/name	HP Office A4

Summary Reports			
ISO/IEC 24734		FSOT (seconds)	ESAT (ipm)
Color	Single Sided	15	36
	Two Sided	23	20
B&W	Single Sided	15	36
	Two Sided	23	20

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 content for A4 pr 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

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)	13.16	18.24	30.47	34.56	36.34
		Word (# sets)	13.31				35.93
		Excel (# sets)	16.39				36.28
		Average	15				36
	Two Sided	PDF (# sets)	21.53	11.15	16.98		20.69
		Word (# sets)	21.79				20.70
		Excel (# sets)	24.84				20.71
		Average	23				20
B&W	Single Sided	PDF (# sets)	13.22	18.16	30.47	34.63	36.41
		Word (# sets)	13.30				36.35
		Excel (# sets)	16.32				36.30
		Average	15				36
	Two Sided	PDF (# sets)	21.69	11.06	16.95		20.72
		Word (# sets)	21.78				20.73
		Excel (# sets)	24.85				20.76
		Average	23				20

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 3) For Duplex B&W results, Black Ink Only
 4) Scale content for A4 pr 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	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A	N/A
	Average (# copies)	N/A	N/A	N/A	N/A	N/A
Black	Page 1 (# copies)	N/A	N/A	N/A	N/A	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A	N/A
	Average (# copies)	N/A	N/A	N/A	N/A	N/A

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Test system parameters

Item	Value
Computer	HP Compaq Pro 6300 Small Form Factor Desktop PC
Processor	Intel Core i7-3770 Processor (3.40 GHz, 8 MB Cache)
System Chip Set	Intel® Q75 Express
System Board	Standard system devices, default system BIOS
System Memory	4GB DDR3-1600 DIMM (1x4GB) RAM
Hard Drive subsystem	250GB 7200 RPM 3.5", 1 TB 7200 RPM 3.5"
Video subsystem	NVIDIA NVS 300 512MB PCIe x16 (DMS-59 Dual VGA)
Optical Drive	SuperMulti DVD/Blu-ray Optical Drive
I/O subsystem	Intel® 82579LM Gigabit Network Connection
USB subsystem	USB 2.0
Printer Connection	USB 2.0
Operating System	Microsoft Windows 7 Professional 64-bit SP1
Printing Applications	Microsoft Office Word 2010 32-bit SP1
	Microsoft Office Excel 2010 32-bit SP1
	Adobe Reader X 10.1.2
Test Files and location	Office Category files, hard drive