

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

Full Detailed Test Reports
 HP Officejet Pro x451dw x451dw

Printing device and test settings	
Test Start Date and Time	03/06/13 5:00:00 PM
Tester	Keith Bauser
Machine product number	x451dw
Machine name/model	HP Officejet Pro x451dw
FW Version	1245GR
Colour or B&W	Color
Temperature and humidity	Ambient
Voltage	110
Test End Date and Time	03/07/13 7:00:00 PM

	Item	Value
Modes and Settings	Driver version	973
	Media / Quality Setting	Default/Default
Settings	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	yes
Paper	Duplexing Print Unit	Yes
	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)
Color	Single Sided	PDF (# sets)	13.42	1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	36.11
			Word (# sets)	13.45			
		Excel (# sets)	16.32				36.13
		Average	15				36
Color <td rowspan="2">Two Sided</td> <td>PDF (# sets)</td> <td>21.69</td> <td>11.06</td> <td>16.57</td> <td></td> <td>20.76</td>	Two Sided	PDF (# sets)	21.69	11.06	16.57		20.76
		Word (# sets)	21.75				20.82
		Excel (# sets)	24.79				20.81
		Average	23				20
B&W <td rowspan="2">Single Sided</td> <td>PDF (# sets)</td> <td>13.84</td> <td>17.39</td> <td>30.25</td> <td>34.45</td> <td>36.18</td>	Single Sided	PDF (# sets)	13.84	17.39	30.25	34.45	36.18
		Word (# sets)	13.39				36.17
		Excel (# sets)	16.22				36.18
		Average	15				36
B&W <td rowspan="2">Two Sided</td> <td>PDF (# sets)</td> <td>21.80</td> <td>11.01</td> <td>17.04</td> <td></td> <td>20.86</td>	Two Sided	PDF (# sets)	21.80	11.01	17.04		20.86
		Word (# sets)	21.75				20.85
		Excel (# sets)	24.81				20.85
		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)	
Color	Page 1 (# copies)	N/A	N/A	1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	N/A
		Page 2 (# copies)	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 (# copies)	N/A	N/A	N/A	N/A	N/A	N/A
Black	Page 1 (# copies)	N/A	N/A	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 (# copies)	N/A	N/A	N/A	N/A	N/A	N/A

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Test system parameters

	Item	Value
Test System	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/DRW Optical Drive
	IO subsystem	Intel® 82579LM Gigabit Network Connection
	I/O	USB subsystem
Printer Connection		USB 2.0
Software	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