

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

Full Detailed Test Reports
HP Deskjet IA 4510 e-All-In-One A9J41A

Printing device and test settings

Test Start Date and Time	2/22/2013 11:00A/22/2013 11:00AM
Tester	Safiah
Machine product number	A9J41A
Machine name/model	HP Deskjet IA 4510 e-All-In-One
FW Version	OAL1CN1310BR
Colour or B&W	Color
Temperature and humidity	23C, 50%
Voltage	115 VAC
Test End Date and Time	3/6/2013 5:00PM/3/6/2013 5:00PM

Modes and Settings	Item	Value
Settings	Driver version	DJ4510_1093
	Media / Quality Setting	Default / Default
	Simplex B&W settings	Driver was set to "print in grayscale, black ink only"
	Duplex B&W settings	Driver was set to "print in grayscale, black ink only"
Paper Path	Setting N set count	Application
	Collating function	No
	Paper sending direction	Default
	Paper size setting	Default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Paper	Duplexing ADF Unit	No
	Duplexing Print Unit	Yes
	Paper Manufacture	HP
	Weight	22lb
	Size	A4
	Paper type/name	HP Everyday Paper

Summary Reports

ISO/IEC 24734		FSOT (seconds)	ESAT (ipm)
Color	Single Sided	62	5.2
	Two Sided	78	3
B&W	Single Sided	40	8.8
	Two Sided	68	4

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Driver was set to "print in grayscale, black ink only"
 3) For Duplex B&W results, Driver was set to "print in grayscale, black ink only"
 4) Scale content for A4 pt 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183		FCOT (seconds)	SESAT (ipm)
Color		27	4
	B&W	18	6

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)	71.11	3.37	3.64	3.85	3.97
		Word (# sets)	39.45				8.19
		Excel (# sets)	75.19				3.77
		Average	62				5.2
	Two Sided	PDF (# sets)	88.77	2.70	2.87		3.04
		Word (# sets)	50.19				5.78
		Excel (# sets)	92.75				2.88
		Average	78				3
B&W	Single Sided	PDF (# sets)	42.90	5.59	6.46	7.41	7.75
		Word (# sets)	30.72				11.58
		Excel (# sets)	43.85				7.40
		Average	40				8.8
	Two Sided	PDF (# sets)	69.43	3.45	3.69		3.98
		Word (# sets)	50.70				5.66
		Excel (# sets)	81.29				3.33
		Average	68				4

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Driver was set to "print in grayscale, black ink only"
 3) For Duplex B&W results, Driver was set to "print in grayscale, black ink only"
 4) Scale content for A4 pt 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)	25.11	2.39	2.97	3.40	3.52
	Page 2 (# copies)	20.81	2.88	5.71		7.74
	Page 3 (# copies)	21.64	2.77	3.71		4.21
	Page 4 (# copies)	32.97	1.82	2.10		2.31
	Average	27		3	3	4
	Black	Page 1 (# copies)	17.94	3.34	4.69	5.32
Page 2 (# copies)		13.36	4.49	7.70		9.13
Page 3 (# copies)		16.70	3.59	5.19		5.96
Page 4 (# copies)		21.97	2.73	3.57		4.02
Average		18		5	5	6

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

Test system parameters

	Item	Value
Test System	Computer	HP dv9812us Notebook PC
	Processor	AMD Turion TL-60 2.0 GHz, 1 MB L2 cache
	System Chip Set	Northbridge/Southbridge: nVidia MCP67M
	System Board	Standard system devices, default system BIOS
	System Memory	3GB PC2-5300 DDR2 SDRAM
	Hard Drive subsystem	Western Digital WD2500BEVS 250 GB
	Video subsystem	NVidia GeForce 7150
	Optical Drive	Panasonic/Hewlett-Packard, DVD+RW and CD-RW
	IO subsystem	Built in
	USB subsystem	USB 2.0
I/O	Printer Connection	USB 2.0
	Operating System	Microsoft Windows 7 Professional 64-bit SP1
Software	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