

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

**Full Detailed Test Reports**  
**HP Deskjet IA 4640 e-All-in-One Series**

**Printing device and test settings**

Test Start Date and Time	04/16/13 9:00:00 AM
Tester	Sahih/Annata
Machine product number	84110A
Machine name/model	HP Deskjet IA 4640 e-All-in-One
FW Version	MZM1FN1317AR
Colour or B&W	Color
Temperature and humidity	23C, 50%
Voltage	115 VAC
Test End Date and Time	04/23/13 4:00:00 PM

Modes and Settings	Item	Value
Modes and Settings	Driver version	MykonosPlusIA_1139
	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	Yes
	Paper sending direction	Default
	Paper size setting	Default
Paper	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
	Duplexing ADF Unit	No
	Duplexing Print Unit	Yes
	Paper Manufacture	HP
Paper	Weight	22lb
	Size	A4
	Paper type/name	HP Everyday Paper

**Summary Reports**

ISO/IEC 24734		FSOT (seconds)	ESAT (ipm)
Color	Single Sided	64	5.2
	Two Sided	86	3
B&W	Single Sided	41	8.8
	Two Sided	75	3

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		29	4
	B&W	20	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)	73.10	3.28	3.55	3.79	3.97
		Word (# sets)	40.05				6
		Excel (# sets)	75.95				3.71
		Average	64				5.2
	Two Sided	PDF (# sets)	103.83	2.31	2.42		2.58
		Word (# sets)	57.25				5.01
		Excel (# sets)	94.91				2.83
		Average	86				3
B&W	Single Sided	PDF (# sets)	43.34	5.53	6.35	7.30	7.68
		Word (# sets)	31.98				10
		Excel (# sets)	45.33				11.51
		Average	41				7.38
	Two Sided	PDF (# sets)	82.37	2.91	3.08		3.28
		Word (# sets)	58.05				4.90
		Excel (# sets)	82.17				3.29
		Average	75				3

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 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)	28.74	2.08	2.68	3.07	3.38
	Page 2 (# copies)	25.00	2.40	5.02		7.02
	Page 3 (# copies)	27.05	2.21	3.43		4.24
	Page 4 (# copies)	36.07	1.66	1.97		2.25
	Average	29	2	3	3	4
	Black	Page 1 (# copies)	19.79	3.03	4.52	5.32
Page 2 (# copies)		14.81	4.05	7.24		8.78
Page 3 (# copies)		18.33	3.27	5.08		6.01
Page 4 (# copies)		23.34	2.57	3.46		3.99
Average		20	3	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	