

**ISO/IEC 24734 Printing Productivity Report: Office Category**  
**Full Detailed Test Report**  
 HP Deskjet Ink Advantage AIO K109 Series

**Printing device and test settings**

Test Start Date and Time	07/31/09	8:30:00 AM
Tester	Nafeesah	
Machine product number	K109a	
Machine name/model	HP Deskjet Ink Advantage	
FW Version	NDL1FN0906BR	
Colour or B&W	Colour printing device	
Temperature and humidity	24 degrees C, 60%	
Voltage	240 volts AC	
Test End Date and Time	07/31/09	5:30:00 PM

	Item	Value
<b>Modes and Settings</b>	Driver version	70.91.306.0
	Media / Quality Setting	Default / Default
	Simplex B&W settings	Driver was set to "print in grayscale, black ink only"
	Duplex B&W settings	n.a.
	Setting N set count	Application
<b>Paper Path</b>	Collating function	On
	Paper sending direction	Default
	Paper size setting	Default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
<b>Paper</b>	Output orientation	Default (face up)
	Duplexing unit (Yes/No)	No
	Paper Manufacturer	HP
	Weight	22lb
	Size	8.5 x 11"
	Paper type/name	HP All-in-One Colorlok

**Summary Report**

		FSOT (seconds)	ESAT (ipm)
<b>Color</b>	Single Sided	74	4.0
	Two Sided		
<b>B&amp;W</b>	Single Sided	53	6.0
	Two Sided		

- 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 Simplex B&W results, n.a.  
 4) For device and test settings see Full Detailed Report

**Full Report**

		Office Category Test Files	FSOT (sec)	EFTP (ipm)			ESAT (ipm)
				1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	
<b>Color</b>	<b>Single Sided</b>	PDF (# sets)	88.88	2.72	2.94 2	2.61 5	3.20
		Word (# sets)	46.30	5.40	6.37 3		6.99
		Excel (# sets)	85.39	2.75	3.00 2		3.29
		Average	<b>74</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>4.0</b>
	<b>Two Sided</b>	PDF (# sets)	N/A	N/A	N/A		N/A
		Word (# sets)	N/A	N/A	N/A		N/A
		Excel (# sets)	N/A	N/A	N/A		N/A
		Average	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>		<b>N/A</b>
<b>B&amp;W</b>	<b>Single Sided</b>	PDF (# sets)	58.55	3.98	4.48 2	3.51 6	5.12
		Word (# sets)	39.88	5.92	7.17 3		8.02
		Excel (# sets)	58.42	4.04	4.47 2		4.99
		Average	<b>53</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>6.0</b>
	<b>Two Sided</b>	PDF (# sets)	N/A	N/A	N/A		N/A
		Word (# sets)	N/A	N/A	N/A		N/A
		Excel (# sets)	N/A	N/A	N/A		N/A
		Average	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>		<b>N/A</b>

- Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
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**Test system parameters**

	Item	Value
<b>Test System</b>	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 7150M
	Optical Drive	Panasonic/Hewlett-Packard, DVD±RW and CD-RW
	I/O subsystem	Built in
	USB subsystem	USB 2.0
<b>I/O</b>	USB	USB 2.0
<b>Software</b>	Operating System	Microsoft Windows Vista Home Premium SP1
	Printing Applications	Microsoft Office Word 2007
		Microsoft Office Excel 2007
		Adobe Reader 8.1.0
	Test Files and location	Office Category files, hard drive