

ISO/IEC 24734 Printing Productivity Report: Office Category
 ISO/IEC 24735 Copying Productivity Report
 ISO/IEC 24735 Annex D Report
 Full Detailed Test Reports
 HP Officejet 4000 K210a

Printing device and test settings

Test Start Date and Time	26/05/10 & 8.30am
Tester	Kemalranch
Machine product number	K210a
Machine name/model	HP Officejet 4000
FW Version	0.0.MF.FN0156AF
Colour or B&W	Color
Temperature and humidity	24 degrees C, 60%
Voltage	240 volts AC
Test End Date and Time	27/05/10 & 10.05:27/05/10 & 10.05am

	Item	Value
Modes and Settings	Driver version	70.101.658.0
	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
Paper Path	Collating function	On
	Paper sending direction	Default
	Paper size setting	Default
	Paper feeding	Standard cassettes
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Paper	Duplexing ADF line	No
	Duplexing Print Line	No
	Paper Manufacturer	HP
	Weight	22lb
	Size	8.5 x 11"
	Paper type/name	HP All-in-One Colorlok

Summary Reports

ISO/IEC 24734		FSOT (seconds)	ESAT (ipm)
Color	Single Sided	73	4
	Two Sided	N/A	N/A
B&W	Single Sided	53	6
	Two Sided	N/A	N/A

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, N.A.

ISO/IEC 24735 Annex D		FCOT (seconds)	Continuous Copy Speed (cpm)
Color		N/A	0
B&W		N/A	0

Notes: 1) cpm = Copies Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 24735		FSOT (seconds)	ESAT (ipm)
Color	1:1	N/A	N/A
	1:2	N/A	N/A
	2:2	N/A	N/A
B&W	1:1	N/A	N/A
	1:2	N/A	N/A
	2:2	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 Test Files	FSOT (sec)	EFTP (ppm)			ESAT (ipm)	
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes		
Color	Single Sided	PDF (# sets)	86.57	2.77	2.95	2.45	3.17
		Word (# sets)	43.98	5.45	6.40	4	7.03
		Excel (# sets)	85.84	2.79	2.98	3	3.20
	Average	73	3	4	2	4	
	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	N/A
		Word (# sets)	N/A	N/A	N/A	N/A	N/A
Excel (# sets)		N/A	N/A	N/A	N/A	N/A	
Average	N/A	N/A	N/A	N/A	N/A		
B&W	Single Sided	PDF (# sets)	67.80	4.15	4.52	4.23	5.09
		Word (# sets)	39.93	6.01	7.19	3	8.00
		Excel (# sets)	68.51	4.10	4.51	3	5.04
	Average	53	4	5	2	6	
	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	N/A
		Word (# sets)	N/A	N/A	N/A	N/A	N/A
Excel (# sets)		N/A	N/A	N/A	N/A	N/A	
Average	N/A	N/A	N/A	N/A	N/A		

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, N.A.

ISO/IEC 24735	Office Category Test Files	FSOT (sec)	EFTP (ppm)			ESAT (ipm)
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	
Color	1:1 (# sets)	N/A	N/A	N/A	N/A	N/A
	1:2 (# sets)	N/A	N/A	N/A	N/A	N/A
	2:2 (# sets)	N/A	N/A	N/A	N/A	N/A
B&W	1:1 (# sets)	N/A	N/A	N/A	N/A	N/A
	1:2 (# sets)	N/A	N/A	N/A	N/A	N/A
	2:2 (# sets)	N/A	N/A	N/A	N/A	N/A

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

Test system parameters

	Item	Value
Test System	Computer	HP dv8712us Notebook PC
	Processor	AMD Turion TL40 2.0 GHz, 1 MB L2 cache
	System Chip Set	Northbridge/Southbridge: nVidia MCP7M
	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/Hitachi-Packard, DVD+RW and CD-RW
	IO subsystem	Built in
	USB subsystem	USB 2.0
Software	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