

ISO/IEC 24734 Printing Productivity Report: Office Category
 ISO/IEC 29183 Copying Productivity Report
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports
 HP Officejet Pro 8970

Printing device and test settings	
Test Start Date and Time	03/15/16 12:00:00 AM
Tester	Karen Ting
Machine product number	17K34A
Machine name/model	HP Officejet Pro 8970 e-All-in-One Printer
FW Version	mp2cstr mp2 MCMZCM10068R
Colour or B&W	Color
Temperature and humidity	24 degrees C, 47%
Printer model	HP Officejet Pro 8970
Test End Date and Time	03/22/16 12:00:00 AM

Item	Value
Mode and Settings	Print Webpage-39 2 1964-CUB970 Full Webpage
Media / Quality Settings	AutoNormal
Simplex (B&W settings)	Black Ink Only
Duplex (B&W settings)	Black Ink Only
Settings by test count	Application
Collating function	On
Paper Path	Paper sensing direction: Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Output orientation	Face up
Duplicating ADF Unit	Yes
Duplicating Print Unit	Yes
Paper Manufacturer	HP
Weight	80 gsm
Size	A4
Paper type/name	HP Everyday

Summary Reports

ISO/IEC 24734	FSOT (seconds)	ESAT (img)
Color	32	11
Two Sided	44	6
B&W	33	9
Two Sided	33	9

Notes: 1) gsm = 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 correct for A4 for 3.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	FCOT (seconds)	sESAT (img)
Color	22	13
B&W	22	13

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

ISO/IEC 17629	FPOT From Ready (sec)
Color	15
B&W	12

Notes: 1) For B&W results, Black Ink Only

Full Reports

ISO/IEC 24734	Office Category	FSOT (sec)	eFTP (gpm)			sESAT (img)
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	
Color	Single Sided	PDF	34.00	7.00	8.00	8.00
		Word	22.00	7.00	8.00	17.30
		Excel	37.00	7.00	8.00	9.30
	Two Sided	Average	32	7.00	8.00	11
		PDF	47.00	5.00	5.00	6.40
		Word	33.00	7.00	8.00	9.60
B&W	Single Sided	Word	61.00	7.00	8.00	11.70
		Excel	51.00	7.00	8.00	9.20
		Average	44	7.00	8.00	6
	Two Sided	PDF	28.00	7.00	8.00	18.10
		Word	18.00	7.00	8.00	24.30
		Excel	24.00	7.00	8.00	18.50
B&W	Single Sided	Average	22	7.00	8.00	20
		PDF	33.00	7.00	8.00	9.60
		Word	28.00	7.00	8.00	11.70
	Two Sided	Excel	37.00	7.00	8.00	9.20
		Average	33	7.00	8.00	9
		PDF	47.00	5.00	5.00	6.40

Notes: 1) gsm = 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 correct for A4 for 3.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	Page #	FCOT (sec)	eFTP (gpm)			sESAT (img)
			1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1	21.50	2.00	6.00	7.00	7.70
	Page 2	21.30	2.00	7.00	8.00	10.70
	Page 3	21.40	2.00	6.00	8.00	8.90
	Page 4	22.30	2.00	4.00	6.00	5.60
	Average	22	2.00	6.00	7.00	7
	Black	Page 1	12.70	4.00	11.00	13.00
Page 2		12.30	4.00	14.00	16.00	17.70
Page 3		12.70	4.00	11.00	14.50	14.50
Page 4		13.90	4.00	8.00	10.10	10.10
Average		14	4.00	11.00	13.00	13

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

ISO/IEC 17629	Color Simplex	FPOT From Ready (sec)		Recovery Time (sec)
		FPOT	FPOT from Sleep	
Color Simplex	PDF	14.40	17.00	2.60
	Word	11.70	13.00	1.70
	Excel	14.80	17.00	2.60
	Average	13.60	15.00	2.10
	Delay Time	60 sec	120 min	
B&W Simplex	PDF	11.30	13.00	1.70
	Word	10.90	12.00	1.60
	Excel	12.20	14.00	2.00
	Average	11.40	13.00	1.70
	Delay Time	60 sec	120 min	

Notes: 1) For B&W results, Black Ink Only
 2) Scale correct for A4 for 3.5x11 paper sizes set to off for Word and Excel

Test system parameters

Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor PC
Processor	Intel Core i7-3770 Quad Core (3.40 GHz, 8 MB cache)
System Chip Set	Intel(R) Q77 Express Chipset
System Board	Standard system board, default system BIOS
System Memory	4 GB (1x4 GB) DDR3 1600 MHz
Hard drive subsystem	Hitachi 720 GB, 5400 RPM
Video subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD-RAM
FD subsystem	None
USB subsystem	USB 2.0/3.0
IO	Printer Controller
Software	Operating System: Microsoft Windows 7 Professional 64-bit SP1
Printing Applications	Microsoft Office Pro Plus Word 2010 32-bit SP1
	Microsoft Office Pro Plus Excel 2010 32-bit SP1
	Adobe Reader X 10.1.2
Test Files and location	Office Category files, hard drive