

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - LETTER**

Color LaserJet M651

Printing device and settings	
Test Start Date and Time	5/28/2014 13:36
Tester	AH
Machine name/model	Color LaserJet M651
Colour or B&W	Colour
FW Version	2302786_433707
Temperature and Humidity	73 degF / 23 degC, 31 %RH
Voltage	110V
Test End Date and Time	7/10/2014 15:09

Item	Value	
Mode and Setting	Driver Version	61.155.1.16824 (13303_186-183)
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	12.4	45.0
	Duplex	16.6	40.5
B&W	Simplex	12.5	45.0
	Duplex	16.2	40.5

Notes  
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Detailed Report: LETTER						
	Office Category Test	FSOT (secs) 1 set only (1 set)	EFTP (ipm)		ESAT (ipm) 1 set + 30sec	
			1 set only (1 set)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	12.80	18.73 ( 1 set )	38.36 ( 8 sets )	41.87 ( 49 sets )	45.09
	Simplex - Word	12.17	19.70 ( 1 set )	38.54 ( 8 sets )		45.07
	Simplex - Excel	12.10	19.82 ( 1 set )	38.86 ( 8 sets )		45.06
	Simplex - Average	12.4	19.4	38.5	41.8	45.0
	Duplex - Adobe Reader	16.85	14.24 ( 1 set )	31.86 ( 7 sets )		40.56
	Duplex - Word	16.22	14.78 ( 1 set )	32.36 ( 7 sets )		40.58
	Duplex - Excel	16.45	14.58 ( 1 set )	32.44 ( 7 sets )		40.56
	Duplex - Average	16.6	14.5	32.2		40.5
B&W mode (optional for color device)	Simplex - Adobe Reader	12.83	18.71 ( 1 set )	38.44 ( 8 sets )	42.87 ( 49 sets )	45.07
	Simplex - Word	12.46	19.25 ( 1 set )	38.59 ( 8 sets )		45.08
	Simplex - Excel	12.10	19.82 ( 1 set )	38.65 ( 8 sets )		45.08
	Simplex - Average	12.5	19.2	38.5	42.8	45.0
	Duplex - Adobe Reader	16.49	14.54 ( 1 set )	32.14 ( 7 sets )		40.58
	Duplex - Word	16.07	14.92 ( 1 set )	32.52 ( 7 sets )		40.58
	Duplex - Excel	15.95	15.04 ( 1 set )	32.54 ( 7 sets )		40.58
	Duplex - Average	16.2	14.8	32.4		40.5

Notes  
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Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 - 3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - A4**

Color LaserJet M651

Printing device and settings	
Test Start Date and Time	5/28/2014 13:36
Tester	AH
Machine name/model	Color LaserJet M651
Colour or B&W	Colour
FW Version	2302786_433707
Temperature and Humidity	73 degF / 23 degC, 31 %rH
Voltage	110V
Test End Date and Time	7/10/2014 15:09

Item	Value	
<b>Mode and Setting</b>	Driver Version	61.155.1.16824 (13303_186-183)
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Collating function	Activated (application)	
<b>Paper Path</b>	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
<b>Colour</b>	Simplex	12.8	42.7
	Duplex	17.1	38.6
<b>B&amp;W</b>	Simplex	12.8	42.7
	Duplex	16.7	38.6

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Detailed Report: A4						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	
<b>Colour Mode</b>	Simplex - Adobe Reader	13.27	18.07 ( 1 set )	35.90 ( 7 sets )	40.57 ( 47 sets )	42.72
	Simplex - Word	12.52	19.16 ( 1 set )	36.33 ( 7 sets )		42.72
	Simplex - Excel	12.41	19.32 ( 1 set )	36.42 ( 7 sets )		42.71
	Simplex - Average	12.8	18.8	36.2	40.5	42.7
	Duplex - Adobe Reader	17.67	13.58 ( 1 set )	30.66 ( 7 sets )		38.64
	Duplex - Word	16.82	14.24 ( 1 set )	30.82 ( 7 sets )		38.64
	Duplex - Excel	16.60	14.44 ( 1 set )	30.88 ( 7 sets )		38.64
	Duplex - Average	17.1	14.0	30.7		38.6
<b>B&amp;W mode</b> (optional for color device)	Simplex - Adobe Reader	13.20	18.19 ( 1 set )	36.01 ( 7 sets )	41.64 ( 47 sets )	42.72
	Simplex - Word	12.49	19.21 ( 1 set )	35.89 ( 7 sets )		42.71
	Simplex - Excel	12.45	19.27 ( 1 set )	36.44 ( 7 sets )		42.72
	Simplex - Average	12.8	18.8	36.1	41.6	42.7
	Duplex - Adobe Reader	16.97	14.12 ( 1 set )	30.84 ( 7 sets )		38.64
	Duplex - Word	16.65	14.38 ( 1 set )	31.16 ( 7 sets )		38.68
	Duplex - Excel	16.41	14.60 ( 1 set )	31.22 ( 7 sets )		38.64
	Duplex - Average	16.7	14.3	31.0		38.6

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I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive