

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

Lexmark MS510dn Series XL

Printing device and settings	
Test Start Date and Time	1/14/2016 8:11
Tester	BG
Machine name/model	Lexmark MS510dn Series XL
Colour or B&W	B&W
FW Version	NH5.CY.N543
Temperature and Humidity	75 degF / 24 degC, 18 %RH
Voltage	110V
Test End Date and Time	1/19/2016 12:56

Item	Value	
Mode and Setting	Driver Version	6
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Gray
	Duplex B&W Settings	Gray
	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)
Paper	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	Xerox / HP
	Paper Weight	20lb / 80 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	10.3	45.5
	Duplex	15.7	21.6

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	10.95	21.92 (1 set)	39.98 (8 sets)	44.07 (50 sets)	45.57
	Simplex - Word	9.77	24.56 (1 set)	41.18 (8 sets)		45.63
	Simplex - Excel	9.95	24.11 (1 set)	41.01 (8 sets)		45.56
	Simplex - Average	10.3	23.5	40.7	44.0	45.5
	Duplex - Adobe Reader	16.22	14.78 (1 set)	19.24 (4 sets)		21.70
	Duplex - Word	15.31	15.66 (1 set)	19.76 (4 sets)		21.68
	Duplex - Excel	15.43	15.54 (1 set)	19.72 (4 sets)		21.66
	Duplex - Average	15.7	15.3	19.5		21.6

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

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	Built-in
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

Lexmark MS510dn Series XL

Printing device and settings		
Test Start Date and Time	1/14/2016 8:11	
Tester	BG	
Machine name/model	Lexmark MS510dn Series XL	
Colour or B&W	B&W	
FW Version	NH5.CY.N543	
Temperature and Humidity	75 degF / 24 degC, 18 %rH	
Voltage	110V	
Test End Date and Time	1/19/2016 12:56	

Item	Value	
Mode and Setting	Driver Version	6
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Gray
	Duplex B&W Settings	Gray
	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	Xerox / HP
	Paper Weight	20lb / 80 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	10.7	43.2
	Duplex	16.0	21.1

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

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)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	11.60	20.69 (1 set)	37.22 (7 sets)	42.13 (47 sets)	43.25
	Simplex - Word	10.09	23.79 (1 set)	38.70 (7 sets)		43.20
	Simplex - Excel	10.23	23.46 (1 set)	38.53 (7 sets)		43.21
	Simplex - Average	10.7	22.6	38.1	42.1	43.2
	Duplex - Adobe Reader	16.58	14.46 (1 set)	18.88 (4 sets)		21.12
	Duplex - Word	15.64	15.32 (1 set)	19.32 (4 sets)		21.18
	Duplex - Excel	15.73	15.24 (1 set)	19.28 (4 sets)		21.18
	Duplex - Average	16.0	15.0	19.1		21.1

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

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 DH16aC5HR 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 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

Lexmark MS510dn Series XL

Printing device and settings	
Test Start Date and Time	1/14/2016 8:11
Tester	BG
Machine name/model	Lexmark MS510dn Series XL
Colour or B&W	B&W
FW Version	NH5_CY.N543
Configuration (options)	Default
Controller	
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	76 degF / 25 degC, 18 %rH
Voltage	110V
Test End Date and Time	1/15/2016 13:55

Item	Value
Mode and Setting	
PDL and driver version	6
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Paper Path	
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: Letter		
		FPOT from Ready (seconds)
B&W	Simplex	6.20
	Duplex	10.00

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.
 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	5.68	5.91	7.01	6.20	49 Seconds
	FPOT from Ready - Duplex	9.61	9.80	10.57	10	49 Seconds
	FPOT from Sleep - Simplex			9.55		90 Minutes
	Recovery Time			2.5		
	FPOT from Off - Simplex			94.34		
	Warm-up Time			87.33		

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.
 5) Page counts were collected after completion of the tests.
 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: LETTER							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (60 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	9.55	9.54	9.58	9.52	Adobe Reader	90 Minutes
	FPOT from Sleep (60 minutes) HP/Non ISO Test	9.55	9.54	9.58	9.52	Adobe Reader	90 Minutes

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters

Item	Value
Test System	
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
Printing Device Connection	
TCP/IP	10/1000
Software	
Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Printing Applications	Microsoft Office 2010 SP2
Print Driver	Adobe Reader 10.1.4
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ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

Lexmark MS510dn Series XL

Printing device and settings	
Test Start Date and Time	1/14/2016 8:11
Tester	BG
Machine name/model	Lexmark MS510dn Series XL
Colour or B&W	B&W
FW Version	NH5_CY.N543
Configuration (options)	Default
Controller	
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	76 degF / 25 degC, 18 %RH
Voltage	110V
Test End Date and Time	1/15/2016 13:55

Item	Value
Mode and Setting	
PDL and driver version	6
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Paper Path	
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4		FPOT from Ready (seconds)
B&W	Simplex	6.31
	Duplex	10.31

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.
 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	5.76	5.95	7.22	6.31	49 Seconds
	FPOT from Ready - Duplex	9.78	10.00	11.15	10.31	49 Seconds
	FPOT from Sleep - Simplex			9.68		90 Minutes
	Recovery Time			2.5		
	FPOT from Off - Simplex			100.29		
	Warm-up Time			93.07		

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
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 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (60 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	9.68	9.63	9.71	9.71	Adobe Reader	90 Minutes
	FPOT from Sleep (60 minutes) HP/Non ISO Test	9.68	9.63	9.71	9.71	Adobe Reader	90 Minutes

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) DLP includes detailed iterations as data measurements may vary run to run.

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Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
Printing Device Connection	
TCP/IP	10/1000
Software	
Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Printing Applications	Microsoft Office 2010 SP2
Print Driver	Adobe Reader 10.1.4
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