

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

**Full Detailed Test Report - LETTER**

Samsung ML-5515ND

Printing device and settings		
Test Start Date and Time	12/11/2014 11:44	
Tester	JB	
Machine name/model	ML-5515ND	
Colour or B&W	B&W	
FW Version	V2.10.21.12 12-16-2013	
Temperature and Humidity	73 degF / 23 degC, 23 %rH	
Voltage	110V	
Test End Date and Time	1/29/2015 4:02	

Item	Value	
<b>Mode and Setting</b>	Driver Version	PCL6 6.51
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	N/A
	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)	No
<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: Letter			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
<b>B&amp;W</b>	Simplex	10.0	55.3
	Duplex	N/A	N/A

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
<b>Color Mode</b>	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>B&amp;W mode</b> <small>(optional for color device)</small>	Simplex - Adobe Reader	10.46	22.94 ( 1 set )	47.43 ( 9 sets )	50.94 ( 60 sets )	55.33
	Simplex - Word	9.88	24.34 ( 1 set )	48.89 ( 9 sets )		55.32
	Simplex - Excel	9.52	25.16 ( 1 set )	48.73 ( 9 sets )		55.32
	Simplex - Average	10.0	24.1	48.3	50.9	55.3
	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

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	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**

Samsung ML-5515ND

Printing device and settings	
Test Start Date and Time	12/11/2014 11:44
Tester	JB
Machine name/model	ML-5515ND
Colour or B&W	B&W
FW Version	V2.10.21.12 12-16-2013
Temperature and Humidity	73 degF / 23 degC, 23 %rH
Voltage	110V
Test End Date and Time	1/29/2015 4:02

Item	Value	
<b>Mode and Setting</b>	Driver Version	PCL6 6.51
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	N/A
	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)	No
<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 B&W Device		FSOT (seconds)	ESAT (ipm)
<b>B&amp;W</b>	Simplex	10.2	52.4
	Duplex	N/A	N/A

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
<b>Colour Mode</b>	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>B&amp;W mode</b> <small>(optional for color device)</small>	Simplex - Adobe Reader	10.74	22.34 ( 1 set )	44.88 ( 8 sets )	48.26 ( 57 sets )	52.39
	Simplex - Word	9.92	24.20 ( 1 set )	45.12 ( 8 sets )		52.40
	Simplex - Excel	9.65	24.86 ( 1 set )	46.59 ( 9 sets )		52.43
	Simplex - Average	10.2	23.8	45.5	48.2	52.4
	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

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	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

Samsung ML-5515ND

Printing device and settings	
Test Start Date and Time	12/11/2014 11:44
Tester	JB
Machine name/model	ML-5515ND
Colour or B&W	B&W
Configuration (options)	Default
Controller	Not Specified
Printing device page count	2989
Printing supplies page count	2989
Temperature and Humidity	73 degF / 23 degC, 20 %rH
Voltage	110V
Test End Date and Time	1/28/2015 12:33

	Item	Value
Mode and Setting	PDL and driver version	default
	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)
	Duplexing unit	Short Edge

**ISO First Page Out Time Summary Report: Office Category**

Summary Report: Letter		
		FPOT from Ready (seconds)
B&W	Simplex	6.6
	Duplex	

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					
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.65	6.16	6.83	6.55	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			32.61		
	Recovery Time			25.8		
	FPOT from Off - Simplex			59.96		
	Warm-up Time			53.13		

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.

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	Built-in
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Software	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4
	Print Driver	PCL6 6.51
	Test files and location	Office category files, hard drive

**ISO/IEC 17629 First Print Out Time Report: Office Category**

Full Detailed Test Report - A4

Samsung ML-5515ND

Printing device and settings	
Test Start Date and Time	12/11/2014 11:44
Tester	JB
Machine name/model	ML-5515ND
Colour or B&W	B&W
Configuration (options)	Default
Controller	Not Specified
Printing device page count	2989
Printing supplies page count	2989
Temperature and Humidity	73 degF / 23 degC, 20 %rH
Voltage	110V
Test End Date and Time	1/28/2015 12:33

	Item	Value
Mode and Setting	PDL and driver version	default
	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)
	Duplexing unit	Short Edge

**ISO First Page Out Time Summary Report: Office Category**

Summary Report: A4		
		FPOT from Ready (seconds)
B&W	Simplex	6.7
	Duplex	

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
Colour Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex					
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.32	6.88	6.94	6.72	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			33.44		
	Recovery Time			26.5		
	FPOT from Off - Simplex			65.09		
	Warm-up Time			58.16		

- 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.
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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	PCL6 6.51
	Test files and location	Office category files, hard drive