

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

Samsung Xpress C1860FW

Printing device and settings		
Test Start Date and Time	12/17/2014 17:22	
Tester	AH	
Machine name/model	Xpress C1860FW	
Colour or B&W	Colour	
FW Version	v1.00.22	
Temperature and Humidity	73 degF / 23 degC, 24 %rH	
Voltage	110V	
Test End Date and Time	12/18/2014 15:35	

Item	Value	
Mode and Setting	Driver Version	3.12.38.01:06 (4/3/2014)
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	grayscale
	Duplex B&W Settings	NA
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	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)	No
	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		28.1	18.9
	Duplex		N/A	N/A
B&W	Simplex		25.7	14.7
	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
Color Mode	Simplex - Adobe Reader	28.24	8.49 (1 set)	14.48 (4 sets)	16.92 (22 sets)	18.98
	Simplex - Word	27.81	8.61 (1 set)	14.59 (4 sets)		18.96
	Simplex - Excel	28.04	8.55 (1 set)	14.55 (4 sets)		18.96
	Simplex - Average	28.1	8.5	14.5	16.9	18.9
	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 <small>(optional for color device)</small>	Simplex - Adobe Reader	26.29	9.11 (1 set)	12.48 (4 sets)	14.90 (22 sets)	13.92
	Simplex - Word	25.41	9.44 (1 set)	12.48 (4 sets)		13.93
	Simplex - Excel	25.30	9.48 (1 set)	12.50 (4 sets)		16.46
	Simplex - Average	25.7	9.3	12.4	14.9	14.7
	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	
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 Xpress C1860FW

Printing device and settings	
Test Start Date and Time	12/17/2014 17:22
Tester	AH
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
FW Version	v1.00.22
Temperature and Humidity	73 degF / 23 degC, 24 %RH
Voltage	110V
Test End Date and Time	12/18/2014 15:35

Item	Value	
Mode and Setting	Driver Version	3.12.38.01:06 (4/3/2014)
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	grayscale
	Duplex B&W Settings	NA
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	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)	No
	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)
Colour	Simplex	28.8	18.0
	Duplex	N/A	N/A
B&W	Simplex	26.5	13.4
	Duplex	#DIV/0!	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
Colour Mode	Simplex - Adobe Reader	28.94	8.27 (1 set)	13.90 (4 sets)	16.09 (21 sets)	18.00
	Simplex - Word	28.43	8.44 (1 set)	14.03 (4 sets)		18.02
	Simplex - Excel	28.76	8.34 (1 set)	13.95 (4 sets)		18.02
	Simplex - Average	28.8	8.3	13.9	16.0	18.0
	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	26.62	9.01 (1 set)	11.95 (4 sets)	14.20 (21 sets)	13.40
	Simplex - Word	26.25	9.13 (1 set)	12.07 (4 sets)		13.39
	Simplex - Excel	26.55	9.02 (1 set)	11.96 (4 sets)		13.41
	Simplex - Average	26.5	9.0	11.9	14.2	13.4
	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	#DIV/0!	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	
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 Xpress C1860FW

Printing device and settings	
Test Start Date and Time	9/12/2014 15:18
Tester	AH
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Default
Controller	Not Specified
Printing device page count	8638/5874
Printing supplies page count	590/905/270/296 (CMYK)
Temperature and Humidity	78 degF / 25 degC, 13 %rH
Voltage	110V
Test End Date and Time	1/9/2015 13:31

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 Path	Paper exit	Standard exit tray
	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)
Color	Simplex	18.1
	Duplex	
B&W	Simplex	15.7
	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: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	18.45	17.67	18.14	18.09	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.75		
	Recovery Time			7.6		
	FPOT from Off - Simplex			67.72		
	Warm-up Time			49.57		
B&W Mode	FPOT from Ready - Simplex	15.50	15.86	15.85	15.74	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.98		
	Recovery Time			10.1		
	FPOT from Off - Simplex			82.71		
	Warm-up Time			66.86		
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 DH16aC SHR 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
		Adobe Reader 10.1.4
	Print Driver	3.12.38.01:06 (4/3/2014)
	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 Xpress C1860FW

Printing device and settings	
Test Start Date and Time	9/12/2014 15:18
Tester	AH
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Default
Controller	Not Specified
Printing device page count	8638/5874
Printing supplies page count	590/905/270/296 (CMYK)
Temperature and Humidity	78 degF / 25 degC, 13 %rH
Voltage	110V
Test End Date and Time	1/9/2015 13:31

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 Path	Paper exit	Standard exit tray
	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)		
Colour	Simplex	18.0
	Duplex	
B&W	Simplex	15.9
	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	17.79	17.98	18.12	17.97	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.78		
	Recovery Time			7.7		
	FPOT from Off - Simplex			79.19		
	Warm-up Time			61.06		
B&W Mode	FPOT from Ready - Simplex	15.77	16.02	16.02	15.94	50 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.78		
	Recovery Time			9.8		
	FPOT from Off - Simplex			77.69		
	Warm-up Time			61.67		

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 DH16aC5HR ATA
	I/O Subsystem	Built-in
	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
	Test files and location	3.12.38.01:06 (4/3/2014) Office category files, hard drive

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

Samsung Xpress C1860FW

Machine Setup Information	
Test Start Date and Time	1/16/2015 11:30
Tester	AH
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Not Specified
Temperature and Humidity	72 degF / 22 degC, 29 %rH
Test End Date and Time	1/16/2015 17:04

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

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		
	sFCOT	sESAT (ipm)
Color	17.0	18.9
B&W	14.6	16.2

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Color	A	16.95	3.54	13.93	16.67	18.98
				12 sets	75 sets	
	B	16.92	3.54	14.70		18.98
				15 sets		
	C	16.93	3.54	14.70		19.01
				15 sets		
D	17.04	3.51	14.70		18.98	
			15 sets			
Average	17.0	3.5	14.5	16.6	18.9	
B&W	A	14.85	4.03	13.69	15.10	16.14
				17 sets	92 sets	
	B	14.37	4.17	13.77		16.26
				17 sets		
	C	14.84	4.04	13.79		16.27
				17 sets		
D	14.30	4.19	13.78		16.27	
			17 sets			
Average	14.6	4.1	13.7	15.1	16.2	

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

Samsung Xpress C1860FW

Machine Setup Information	
Test Start Date and Time	1/16/2015 11:30
Tester	AH
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Not Specified
Temperature and Humidity	72 degF / 22 degC, 29 %rH
Test End Date and Time	1/16/2015 17:04

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

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: A4		
	sFCOT	sESAT (ipm)
Colour	17.1	18.0
B&W	14.8	14.7

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Colour	A	17.07	3.51	14.14 15 sets	16.02 76 sets	18.02
	B	17.09	3.51	14.32 16 sets		18.01
	C	17.05	3.51	14.31 16 sets		18.00
	D	17.04	3.51	14.32 16 sets		18.01
	Average	17.1	3.5	14.2	16.0	18.0
	B&W	A	14.50	4.13	11.13 15 sets	14.54 76 sets
B		14.42	4.15	13.90 16 sets		16.70
C		15.06	3.98	13.11 16 sets		15.42
D		14.99	3.99	12.10 16 sets		13.97
Average		14.8	4.0	12.5	14.5	14.7

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	9/15/2014 13:01
Tester	BG
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	78 degF / 26 degC, 26 %rH
Test End Date and Time	9/15/2014 15:00

Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Set in Control Panel
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default

Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: LETTER						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1	26.59	9.02 (1 set)	13.88 4 sets	16.48 22 sets	16.85
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	25.15	9.52	11.98 4 sets	15.07 22 sets	13.90
	1:2					
	2:2					

Notes
Reports located: <http://www.hp.com/go/printerclaims>

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	9/15/2014 13:01
Tester	BG
Machine name/model	Xpress C1860FW
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	78 degF / 26 degC, 26 %rH
Test End Date and Time	9/15/2014 15:00

Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Set in Control Panel
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default

Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Colorlok / Xerox Business 4200

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: A4						
	Copying Mode	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1	31.67	7.57 (1 set)	13.14 4 sets	15.40 21 sets	16.41
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	40.40	5.94	8.23 3 sets	9.57 13 sets	10.78
	1:2					
	2:2					

Notes
Reports located: <http://www.hp.com/go/printerclaims>