

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value
Driver Version	6.4.0.22070
Media/Quality Setting	Default / Default
Simplex B&W Settings	print in grayscale, black only
Duplex B&W Settings	print in grayscale, black only
Setting N set count	Application
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)
Duplexing Unit (Yes/No)	Yes
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.8	50.4
	Duplex	18.6	50.5
B&W	Simplex	10.8	50.4
	Duplex	15.8	50.5

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) Print 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 + 30sec (1 set)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	11.96	20.07 (1 set)	40.51 (8 sets)	47.51 (57 sets)	50.42
	Simplex - Word	11.50	20.87 (1 set)	42.60 (8 sets)		50.42
	Simplex - Excel	11.66	20.58 (1 set)	42.42 (8 sets)		50.42
	Simplex - Average	11.8	20.5 (1 set)	41.8 (8 sets)	47.5 (57 sets)	50.4
	Duplex - Adobe Reader	20.69	11.60 (1 set)	36.00 (8 sets)		50.56
	Duplex - Word	17.64	13.60 (1 set)	37.38 (8 sets)		50.54
	Duplex - Excel	17.40	13.78 (1 set)	36.92 (8 sets)		50.56
	Duplex - Average	18.6	12.9 (1 set)	36.7 (8 sets)		50.5
B&W mode (optional for color device)	Simplex - Adobe Reader	12.20	19.69 (1 set)	42.60 (8 sets)	49.13 (57 sets)	50.41
	Simplex - Word	9.89	24.27 (1 set)	44.41 (8 sets)		50.42
	Simplex - Excel	10.05	23.87 (1 set)	43.92 (8 sets)		50.41
	Simplex - Average	10.8	22.6 (1 set)	43.6 (8 sets)	49.1 (57 sets)	50.4
	Duplex - Adobe Reader	16.12	14.88 (1 set)	37.60 (8 sets)		50.58
	Duplex - Word	15.57	15.40 (1 set)	38.86 (8 sets)		50.56
	Duplex - Excel	15.56	15.42 (1 set)	39.24 (8 sets)		50.54
	Duplex - Average	15.8	15.2 (1 set)	38.5 (8 sets)		50.5

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) Print 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

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
Paper Path	Setting N set count	Application
	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
Paper	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 Ultra White / HP Office

Summary Report: A4			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Colour	Simplex	12.2	50.4
	Duplex	18.2	50.5
B&W	Simplex	10.1	50.4
	Duplex	16.0	50.5

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 + 30sec (# of sets)	1 set + 4min (# of sets)		
Colour Mode	Simplex - Adobe Reader	12.96	18.52 (1 set)	39.77 (8 sets)	46.11 (52 sets)	50.41
	Simplex - Word	11.64	20.62 (1 set)	42.58 (8 sets)		50.42
	Simplex - Excel	11.77	20.39 (1 set)	42.34 (8 sets)		50.41
	Simplex - Average	12.2	19.8	41.5	46.1	50.4
	Duplex - Adobe Reader	18.78	12.78 (1 set)	35.84 (8 sets)		50.56
	Duplex - Word	18.09	13.26 (1 set)	37.38 (8 sets)		50.54
	Duplex - Excel	17.55	13.66 (1 set)	37.26 (8 sets)		50.56
	Duplex - Average	18.2	13.2	36.8		50.5
B&W mode (optional for color device)	Simplex - Adobe Reader	10.34	23.21 (1 set)	42.93 (8 sets)	49.12 (57 sets)	50.42
	Simplex - Word	9.88	24.28 (1 set)	41.38 (8 sets)		50.44
	Simplex - Excel	10.05	23.88 (1 set)	44.30 (8 sets)		50.43
	Simplex - Average	10.1	23.7	42.8	49.1	50.4
	Duplex - Adobe Reader	16.17	14.82 (1 set)	38.08 (8 sets)		50.58
	Duplex - Word	15.56	15.40 (1 set)	38.78 (8 sets)		50.56
	Duplex - Excel	16.09	14.92 (1 set)	38.88 (8 sets)		50.58
	Duplex - Average	16.0	15.0	38.5		50.5

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 8350
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 - Tabloid

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	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)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.8	26.9
	Duplex	18.6	26.9
B&W	Simplex	15.1	26.9
	Duplex	22.1	26.9

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: Tabloid						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	18.05	13.30 (1 set)	22.12 (5 sets)	25.29 (33 sets)	26.90
	Simplex - Word	16.64	14.43 (1 set)	22.73 (5 sets)		26.90
	Simplex - Excel	16.54	14.50 (1 set)	22.83 (5 sets)		26.90
	Simplex - Average	17.1	14.0	22.5	25.2	26.9
	Duplex - Adobe Reader	26.12	9.18 (1 set)	19.16 (5 sets)		26.98
	Duplex - Word	24.31	9.86 (1 set)	19.68 (5 sets)		26.98
	Duplex - Excel	23.89	10.04 (1 set)	19.24 (5 sets)		26.98
	Duplex - Average	24.8	9.6	19.3		26.9
B&W mode (optional for color device)	Simplex - Adobe Reader	15.66	15.32 (1 set)	23.20 (5 sets)	26.16 (33 sets)	26.90
	Simplex - Word	14.61	16.42 (1 set)	23.88 (5 sets)		26.91
	Simplex - Excel	14.86	16.15 (1 set)	23.84 (5 sets)		26.90
	Simplex - Average	15.1	15.9	23.6	26.1	26.9
	Duplex - Adobe Reader	23.83	10.06 (1 set)	20.06 (5 sets)		26.98
	Duplex - Word	21.34	11.22 (1 set)	20.94 (5 sets)		26.98
	Duplex - Excel	21.03	11.40 (1 set)	20.78 (5 sets)		26.98
	Duplex - Average	22.1	10.8	20.5		26.9

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 8350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Built-in
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
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 - A3

HP Color LaserJet Managed MFP E87650DN

Printing device and settings		
Test Start Date and Time	4/16/2017 16:28	
Tester	AH	
Machine name/model	HP Color LaserJet Managed MFP E87650DN	
Colour or B&W	Colour	
FW Version	2403300_006052	
Temperature and Humidity	74 degF / 23 degC 16.6 %RH	
Voltage	110V	
Test End Date and Time	10/4/2017 16:07	

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	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 Ultra White / HP Office

Summary Report: A3

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	11.8	26.9
	Duplex	18.6	26.9
B&W	Simplex	15.8	26.9
	Duplex	22.2	26.9

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: A3

	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader	17.65	13.59 (1 set)	22.31 (5 sets)	25.39 (33 sets)	26.92
	Simplex - Word	16.34	14.68 (1 set)	22.81 (5 sets)		26.91
	Simplex - Excel	17.07	14.06 (1 set)	22.86 (5 sets)		26.88
	Simplex - Average	17.1	14.1	22.6	25.3	26.9
	Duplex - Adobe Reader	25.98	9.22 (1 set)	19.18 (5 sets)		26.98
	Duplex - Word	24.34	9.84 (1 set)	19.60 (5 sets)		26.98
	Duplex - Excel	23.69	10.12 (1 set)	19.94 (5 sets)		26.98
	Duplex - Average	24.7	9.7	19.5		26.9
B&W mode (optional for color device)	Simplex - Adobe Reader	17.32	13.85 (1 set)	23.09 (5 sets)	26.12 (33 sets)	26.91
	Simplex - Word	15.23	15.75 (1 set)	23.85 (5 sets)		26.90
	Simplex - Excel	14.78	16.24 (1 set)	23.87 (5 sets)		26.90
	Simplex - Average	15.8	15.2	23.6	26.1	26.9
	Duplex - Adobe Reader	23.89	10.04 (1 set)	20.08 (5 sets)		26.98
	Duplex - Word	21.40	11.20 (1 set)	20.88 (5 sets)		26.98
	Duplex - Excel	21.09	11.36 (1 set)	21.04 (5 sets)		26.98
	Duplex - Average	22.2	10.8	20.6		26.9

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

Feature Performance Full Report - Office Feature Performance Test

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	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
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary

Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		A5 and Legal	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5 Landscape Feed - Colour	Simplex	250%	100%
A5 Portrait Feed - Colour	Simplex	226%	100%
Legal - Colour	Simplex	176%	60%
Legal - Colour	Duplex	139%	60%
A5 Landscape Feed - B/W	Simplex	105%	99%
A5 Portrait Feed - B/W	Simplex	106%	99%
Legal - B/W	Simplex	68%	60%
Legal - B/W	Duplex	54%	60%

- Notes
 1) All printing device and driver settings were default mode.
 2) Test conducted with 8-paper Office Feature Performance file.
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test

Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	A5 and Legal			
			1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
Simplex A5 Landscape Feed - Colour	41.63	50.41	16.66	50.4	250%	100%
Simplex A5 Portrait Feed - Colour	41.63	50.41	18.5	50.4	226%	100%
Legal Simplex - Colour	41.63	50.41	23.73	30.3	176%	60%
Legal Duplex - Colour	41.63	50.41	30.01	30.3	139%	60%
Simplex A5 Landscape Feed - B/W	15.78	50.43	15.12	50.4	105%	99%
Simplex A5 Portrait Feed - B/W	15.78	50.43	15.02	50.1	106%	99%
Legal Simplex - B/W	15.78	50.43	23.48	30.3	68%	60%
Legal Duplex - B/W	15.78	50.43	29.53	30.3	54%	60%

- Notes
 1) All printing device and driver settings were default mode.
 2) Test conducted with 8-paper Office Feature Performance file.
 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	
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 8350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP 10/100	
Software	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

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Default
Controller	unknown
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value
Mode and Setting	
PDL and driver version	6.4.0.22070
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)
Color	Simplex	8.10
	Duplex	
B&W	Simplex	6.54
	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	7.84	8.05	8.41	8.10	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			44.20		76 Minutes
	Recovery Time			35.8		
	FPOT from Off - Simplex			182.38		
	Warm-up Time			173.97		
B&W Mode	FPOT from Ready - Simplex	6.37	6.48	6.76	6.54	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			43.04		76 Minutes
	Recovery Time			36.3		
	FPOT from Off - Simplex			175.82		
	Warm-up Time			169.06		

- 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	44.20	44.07	44.32	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	19.43	19.29	19.57	N/A	Adobe Reader	15 Minutes
B&W Mode	FPOT from Sleep	43.04	43.69	42.38	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	17.67	17.33	18.00	N/A	Adobe Reader	15 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 Memory	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
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	6.4.0.22070

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

Full Detailed Test Report - A4

HP Color LaserJet Managed MFP E87650DN

Printing device and settings	
Test Start Date and Time	4/16/2017 16:28
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Default
Controller	unknown
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	10/4/2017 16:07

Item	Value
Mode and Setting	
PDL and driver version	6.4.0.22070
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)
Colour	Simplex	8.09
	Duplex	
B&W	Simplex	6.56
	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
Color Mode	FPOT from Ready - Simplex	7.79	7.86	8.61	8.09	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			44.68		76 Minutes
	Recovery Time			36.1		
	FPOT from Off - Simplex			184.96		
	Warm-up Time			176.35		
B&W Mode	FPOT from Ready - Simplex	6.42	6.49	6.77	6.56	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			43.16		76 Minutes
	Recovery Time			36.4		
	FPOT from Off - Simplex			195.04		
	Warm-up Time			188.27		

- 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: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	44.68	44.52	44.83	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes)	18.56	18.15	18.97	N/A	Adobe Reader	15 Minutes
	HP/Non ISO Test						
B&W Mode	FPOT from Sleep	43.16	43.42	42.89	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes)	17.63	17.40	17.85	N/A	Adobe Reader	15 Minutes
	HP/Non ISO Test						

- 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 DH16aC5HR 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	6.4.0.22070

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP Color LaserJet Managed MFP E87650DN

Machine Setup Information	
Test Start Date and Time	4/21/2017 13:26
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	6/23/2017 16:05

	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 Ultra White / HP Office

Summary Report: Letter		
	sFCOT	sESAT (ipm)
Color	6.1	50.4
B&W	5.8	50.4

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.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Color	A	6.09	9.85	40.68 27 sets	47.48 202 sets	50.42
	B					
	C					
	D					
	Average	6.1	9.9	40.7	47.5	50.4
B&W	A	5.84	10.43	42.69 27 sets	49.14 207 sets	50.44
	B					
	C					
	D					
	Average	5.8	10.4	42.7	49.1	50.4

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.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

HP Color LaserJet Managed MFP E87650DN

Machine Setup Information	
Test Start Date and Time	4/21/2017 13:26
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	6/23/2017 16:05

	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 Ultra White / HP Office

Summary Report: A4		
	sFCOT	sESAT (ipm)
Colour	6.4	50.4
B&W	4.9	50.4

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.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Colour	A	6.38	9.40	42.69 27 sets	44.43 203 sets	50.39
	B					
	C					
	D					
	Average	6.4	9.4	42.7	44.4	50.4
B&W	A	4.92	12.20	40.41 27 sets	48.91 205 sets	50.42
	B					
	C					
	D					
	Average	4.9	12.2	40.4	48.9	50.4

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.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	6/21/2017 11:40
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	6/23/2017 18:58
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
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

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	14.46	16.59	39.82	46.55	50.44
			(1 set)	8 sets	52 sets	
	1:2	20.37	11.78	35.54	46.55	50.56
			(1 set)	8 sets	52 sets	
	2:2	20.29	11.82	35.52	46.55	50.54
			(1 set)	8 sets	52 sets	
B&W mode	1:1	11.70	20.54	42.06	48.76	50.41
				8 sets	52 sets	
	1:2	18.75	12.78	36.66	46.55	50.58
				8 sets	52 sets	
	2:2	18.83	12.74	36.72	46.55	50.56
				8 sets	52 sets	
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	6/21/2017 11:40
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	6/23/2017 18:58
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
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

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	13.13	18.29	39.98	47.35	50.42
			(1 set)	8 sets	52 sets	
	1:2	21.28	11.30	35.02		50.56
			(1 set)	8 sets		
	2:2	62.39	7.00	35.80		50.54
			(1 set)	8 sets		
B&W mode	1:1	11.87	20.25	41.29		50.42
				8 sets		
	1:2	18.87	12.72	35.56		50.58
				8 sets		
	2:2	18.89	12.70	37.14		50.56
				8 sets		
Notes						
Reports located: http://www.hp.com/go/printerclaims						

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	6/28/2017 10:24
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/30/2017 18:07

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result
			Scanning side	scESAT 30secA (ipm)	
Colour	PDF 1.4	200	single sided	102.61	
			double sided	208.59	
B&W	PDF 1.4	200	single sided	102.73	
			double sided	209.06	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result		
			Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)	
Colour	PDF 1.4	200	single sided	66.66	6.58	15.00	
			double sided	77.24	15.28	28.00	
B&W	PDF 1.4	200	single sided	77.42	2.74	15.00	
			double sided	140.00	5.27	28.00	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result		
			Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)	
Colour	PDF 1.4	200	single sided	35.44	90.65	102.61	
			double sided	41.73	181.51	208.59	
B&W	PDF 1.4	200	single sided	35.74	91.62	102.73	
			double sided	44.19	183.9	209.06	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode		Measurement result			
			Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)	
Colour	PDF 1.4	200	single sided	22.90	66.66	6.58	15	
			double sided	24.00	77.24	15.28	28	
B&W	PDF 1.4	200	single sided	26.66	77.42	2.74	15	
			double sided	30.47	140.00	5.27	28	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	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
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	6/28/2017 10:24
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/30/2017 18:07

	Preset Item	Preset Value
Mode and Setting	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	ADF Paper-path	Paper feed direction
Output orientation		default
Scanning unit		default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	106.93
			double sided	218.14
B&W	PDF 1.4	200	single sided	107.34
			double sided	219.20

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	63.33	7.67	15.00
			double sided	77.78	14.35	29.00
B&W	PDF 1.4	200	single sided	77.63	2.86	15.00
			double sided	93.62	5.31	29.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	38.25	92.8	106.93
			double sided	48.28	192.36	218.14
B&W	PDF 1.4	200	single sided	38.92	95.32	107.34
			double sided	46.06	193.16	219.2

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	24.00	63.33	7.67	15
			double sided	22.90	77.78	14.35	29
B&W	PDF 1.4	200	single sided	28.33	77.63	2.86	15
			double sided	24.00	93.62	5.31	29

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	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
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Scanning Device Connection	Location of network folder
Internet Protocol		IPv4
Transfer Protocol		SMB
Hub		Trendnet Router and Gbit Switch
Network Speed		TCP 10/1000 Mbit Ethernet
Connection Cable		Cat6 Straight cable
Wireless router		No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - Tabloid

Machine Setup Information	
Test Start Date and Time	6/28/2017 10:24
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/30/2017 18:07

Mode and Setting	Preset Item	Preset Value
	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	ADF Paper-path	Paper feed direction
	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

[Summary Report: Tabloid](#)

	Scanning Mode			Measurement result	
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)	
Colour	PDF 1.4	200	single sided	55.97	
			double sided	123.24	
B&W	PDF 1.4	200	single sided	61.49	
			double sided	123.26	

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

[Summary Report: Tabloid](#)

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	36.30	9.85	9.00
			double sided	43.63	17.22	17.00
B&W	PDF 1.4	200	single sided	45.51	3.41	9.00
			double sided	81.60	5.84	17.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

[Summary Report: Tabloid](#)

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	28.86	50.94	55.97
			double sided	35.93	109.04	123.24
B&W	PDF 1.4	200	single sided	28.56	55.51	61.49
			double sided	36.93	109.19	123.26

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

[Summary Report: Tabloid](#)

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	17.80	36.30	9.85	9
			double sided	19.23	43.63	17.22	17
B&W	PDF 1.4	200	single sided	20.90	45.51	3.41	9
			double sided	25.33	81.60	5.84	17

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	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
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	DC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A3

Machine Setup Information	
Test Start Date and Time	6/28/2017 10:24
Tester	AH
Machine name/model	HP Color LaserJet Managed MFP E87650DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	110V
Test End Date and Time	6/30/2017 18:07

	Preset Item	Preset Value	
Mode and Setting	Scanning resolution	default (200 dpi)	
	Colour or grey scale/B&W	default (colour)	
	Duplex / simplex	default (simplex)	
	Original page size	default (A4)	
	Paper feed orientation	default (long edge)	
	Scan destination	default (shared network)	
	Storing File Type	default (PDF-multi)	
	Auto scan quality adjustment	default (factory preset default setting)	
	ADF Paper-path	Paper feed direction	default (long edge)
		Output orientation	default
Scanning unit		default (duplex ADF)	

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	62.57
			double sided	125.34
B&W	PDF 1.4	200	single sided	62.56
			double sided	125.42

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	38.39	10.16	10.00
			double sided	44.83	15.92	17.00
B&W	PDF 1.4	200	single sided	46.45	3.20	9.00
			double sided	83.26	5.48	17.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	30.28	56.2	62.57
			double sided	37.78	109.66	125.34
B&W	PDF 1.4	200	single sided	29.17	55.48	62.56
			double sided	34.62	110.88	125.42

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	18.46	38.39	10.16	10
			double sided	19.23	44.83	15.92	17
B&W	PDF 1.4	200	single sided	21.81	46.45	3.20	9
			double sided	25.33	83.26	5.48	17

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters			
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