

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

**Full Detailed Test Report - LETTER**

Okidata B432dn

Printing device and settings	
Test Start Date and Time	12/1/2015 7:19
Tester	BG
Machine name/model	Okidata B432dn
Colour or B&W	B&W
FW Version	A01.06 0.4
Temperature and Humidity	75 degF / 24 degC 11.92 %rH
Voltage	110V
Test End Date and Time	1/22/2016 7:41

Item	Value	
<b>Mode and Setting</b>	Driver Version	v2.1.1.61
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Black
	Duplex B&W Settings	Black
	Setting N set count	Application
Collating function	Activated (application)	
<b>Paper Path</b>	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
<b>B&amp;W</b>	Simplex	13.6	42.4
	Duplex	15.6	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: LETTER

	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set + 30sec (1 set)	1 set + 30sec (# of sets)	
<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> (optional for color device)	Simplex - Adobe Reader	13.01	18.45 ( 1 set )	35.55 ( 7 sets )	39.73 ( 47 sets )	42.49
	Simplex - Word	13.59	17.66 ( 1 set )	36.15 ( 7 sets )		42.13
	Simplex - Excel	13.98	17.17 ( 1 set )	36.11 ( 7 sets )		42.86
	Simplex - Average	13.6	17.7 ( 1 set )	35.9 ( 4 sets )	39.7	42.4
	Duplex - Adobe Reader	15.90	15.08 ( 1 set )	19.04 ( 4 sets )		21.08
	Duplex - Word	15.28	15.70 ( 1 set )	19.32 ( 4 sets )		21.06
	Duplex - Excel	15.36	15.62 ( 1 set )	19.38 ( 4 sets )		21.18
	Duplex - Average	15.6	15.4 ( 1 set )	19.2 ( 4 sets )		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 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**

Okidata B432dn

Printing device and settings	
Test Start Date and Time	12/1/2015 7:19
Tester	BG
Machine name/model	Okidata B432dn
Colour or B&W	B&W
FW Version	A01.06 0.4
Temperature and Humidity	75 degF / 24 degC 11.92 %rH
Voltage	110V
Test End Date and Time	1/22/2016 7:41

Item	Value	
<b>Mode and Setting</b>	Driver Version	v2.1.1.61
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Black
	Duplex B&W Settings	Black
	Setting N set count	Application
Collating function	Activated (application)	
<b>Paper Path</b>	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
<b>B&amp;W</b>	Simplex	15.2	40.1
	Duplex	16.7	20.4

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 (1 set)	1 set + 30sec (# of sets)	
<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> (optional for color device)	Simplex - Adobe Reader	17.39	13.81 ( 1 set )	33.24 ( 7 sets )	35.81 ( 44 sets )	40.49
	Simplex - Word	15.45	15.53 ( 1 set )	34.12 ( 7 sets )		39.85
	Simplex - Excel	12.70	18.90 ( 1 set )	33.79 ( 7 sets )		40.17
	Simplex - Average	15.2	16.0	33.7	35.8	40.1
	Duplex - Adobe Reader	16.25	14.76 ( 1 set )	18.54 ( 4 sets )		20.46
	Duplex - Word	17.75	13.52 ( 1 set )	17.88 ( 4 sets )		20.46
	Duplex - Excel	15.84	15.14 ( 1 set )	17.70 ( 4 sets )		20.46
	Duplex - Average	16.7	14.4	18.0		20.4

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

Okidata B432dn

Printing device and settings	
Test Start Date and Time	12/1/2015 7:19
Tester	BG
Machine name/model	Okidata B432dn
Colour or B&W	B&W
FW Version	A01.06.0.4
Configuration (options)	Default
Controller	
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	76 degF / 25 degC, 23 %rH
Voltage	110V
Test End Date and Time	12/8/2015 13:44

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
<b>Paper Path</b>	
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	10.96
	Duplex	13.04

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	10.29	10.93	11.66	10.96	49 Seconds
	FPOT from Ready - Duplex	12.38	12.86	13.86	13.04	49 Seconds
	FPOT from Sleep - Simplex			23.77		61 Minutes
	Recovery Time			12.1		
	FPOT from Off - Simplex			45.25		
	Warm-up Time			33.59		

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	23.77	23.34	23.79	24.19	Adobe Reader	61 Minutes
	FPOT from Sleep (60 minutes) HP/Non ISO Test	23.77	23.34	23.79	24.19	Adobe Reader	61 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

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

Full Detailed Test Report - A4

Okidata B432dn

Printing device and settings	
Test Start Date and Time	12/1/2015 7:19
Tester	BG
Machine name/model	Okidata B432dn
Colour or B&W	B&W
FW Version	A01.06.0.4
Configuration (options)	Default
Controller	
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	76 degF / 25 degC, 23 %rH
Voltage	110V
Test End Date and Time	12/8/2015 13:44

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
<b>Paper Path</b>	
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>B&amp;W</b>	Simplex	11.75
	Duplex	12.69

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
<b>Color Mode</b>	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
<b>B&amp;W Mode</b>	FPOT from Ready - Simplex	10.84	11.59	12.81	11.75	49 Seconds
	FPOT from Ready - Duplex	12.14	12.52	13.39	12.69	49 Seconds
	FPOT from Sleep - Simplex			24.18		61 Minutes
	Recovery Time			11.4		
	FPOT from Off - Simplex			45.08		
	Warm-up Time			32.27		

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
<b>Color Mode</b>	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>B&amp;W Mode</b>	FPOT from Sleep	24.18	24.02	24.29	24.23	Adobe Reader	61 Minutes
	FPOT from Sleep (60 minutes) HP/Non ISO Test	24.18	24.02	24.29	24.23	Adobe Reader	61 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	
<b>Test System</b>	Computer	HP Compaq Elite 8300 Small Form Factor
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	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
<b>Software</b>	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