Full detailed report

(ISO/IEC 17629)

Model

Printing device and test setting

Test Start Date and Time	2022/2/18 . 13:30
Tester	T.Hirasawa
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	21.9℃ / 44.6 %
Voltage	104.3V
Test End Date and Time	2022/2/22 . 10:20

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
Paper	Paper sending direction	short edge feed
	Paper type setting	Default
Paper path	Paper feeding	Rear paper input
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Test system parameters

Test system	Computer	Lenovo Think Pad P1 Gen2
	Processor	Intel ® Core™ i7-9750H Processor (2.60GHz, 12MB)
	System Chip Set	Intel ® CM246 Chip Set
	System Board	LENOVO:20QUS1VR00 BIOS :N2OET42W(1.29)
	System Memory	16GB(PC4-21300 DDR4 SODIMM)
	HDD or SSD Subsystem	M.2 PCIe NVMe SSD 512GB
	Video system	NVIDIA Quadro T1000
	I/O Subsystem	USB mouse
	USB Subsystem	System board USB controller , USB 3.1
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat DC
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, SSD
Printing Device Connection	USB	USB 2.0 mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

		Ready FPOT (sec)
Color	Simplex Average	14.87
	Duplex Average	28.27
B&W mode	Simplex Average	9.46
	Duplex Average	19.94

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

			PDF (sec)	Word (sec)	Excel (sec)	Average (sec)	Delay Time
Color	Simplex	Ready FPOT	16.15	11.16	17.30	14.87	50sec
		Sleep FPOT	18.05				23min
		Recovery Time	1.90				
		OFF FPOT	30.15				
		Warm-up Time	14.00				
	Duplex	Ready FPOT	28.17	22.72	33.92	28.27	50sec
B&W mode	Simplex	Ready FPOT	9.15	9.16	10.07	9.46	50sec
		Sleep FPOT	11.00				23min
		Recovery Time	1.85				
		OFF FPOT	23.27				
		Warmup Time	14.12				
	Duplex	Ready FPOT	19.50	19.14	21.18	19.94	50sec

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"
・Annex F used to determine delay time for FPOT from Ready.
・Sleep FPOT Additional Wait Time is defined as 10 minutes for following reasons.
- It is an inkjet printer.
- Recovery Time does not depend on the elapsed time after transition to Sleep.

Full detailed report

(ISO/IEC 17629)

Model

Printing device and test setting

Test Start Date and Time	2022/2/22 . 10:25
Tester	T.Hirasawa
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	103.7V
Test End Date and Time	2022/2/22 . 17:00

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
Paper	Paper sending direction	short edge feed
	Paper type setting	Default
Paper path	Paper feeding	Rear paper input
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Test system parameters

Test system	Computer	Lenovo Think Pad P1 Gen2
	Processor	Intel ® Core™ i7-9750H Processor (2.60GHz, 12MB)
	System Chip Set	Intel ® CM246 Chip Set
	System Board	LENOVO:20QUS1VR00 BIOS :N2OET42W(1.29)
	System Memory	16GB(PC4-21300 DDR4 SODIMM)
	HDD or SSD Subsystem	M.2 PCIe NVMe SSD 512GB
	Video system	NVIDIA Quadro T1000
	I/O Subsystem	USB mouse
	USB Subsystem	System board USB controller , USB 3.1
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat DC
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, SSD
Printing Device Connection	USB	USB 2.0 mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

		Ready FPOT (sec)
Color	Simplex Average	14.76
	Duplex Average	29.17
B&W mode	Simplex Average	9.30
	Duplex Average	20.59

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

			PDF (sec)	Word (sec)	Excel (sec)	Average (sec)	Delay Time
Color	Simplex	Ready FPOT	16.08	11.07	17.11	14.76	50sec
		Sleep FPOT	17.86				23min
		Recovery Time	1.78				
		OFF FPOT	30.17				
		Warm-up Time	14.09				
	Duplex	Ready FPOT	29.08	23.23	35.19	29.17	50sec
B&W mode	Simplex	Ready FPOT	9.05	9.12	9.73	9.30	50sec
		Sleep FPOT	10.94				23min
		Recovery Time	1.89				
		OFF FPOT	23.37				
		Warmup Time	14.32				
	Duplex	Ready FPOT	20.40	19.83	21.53	20.59	50sec

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"
・Annex F used to determine delay time for FPOT from Ready.
・Sleep FPOT Additional Wait Time is defined as 10 minutes for following reasons.
- It is an inkjet printer.
- Recovery Time does not depend on the elapsed time after transition to Sleep.

Full detailed report

(ISO/IEC 24734 Office Category Test)

Model

Printing device and test setting

Test Start Date and Time	2022/2/22 . 10:00
Tester	H.Nakata
Color or B/W	Color Printing device
Default output order	Reverse
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	103.7V
Test End Date and Time	2022/2/22 . 13:20

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Printer Driver, select''Grayscale'')
	Setting N set count	Activated (Application, select ''count up'' or ''count down'')
	Collating function	Activated (Printer Driver, select ''collate'')
	In order output	Default (Reverse)
Paper	Paper sending direction	short edge feed
	Paper type setting	plain paper
Paper path	Paper feeding	Rear paper input
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Test system parameters

Test system	Computer	Lenovo Think Pad P1 Gen2
	Processor	Intel ® Core™ i7-9750H Processor (2.60GHz, 12MB)
	System Chip Set	Intel ® CM246 Chip Set
	System Board	LENOVO:20QUS1VR00 BIOS :N2OET42W(1.29)
	System Memory	16GB(PC4-21300 DDR4 SODIMM)
	HDD or SSD Subsystem	M.2 PCIe NVMe SSD 512GB
	Video system	NVIDIA Quadro T1000
	I/O Subsystem	USB mouse
	USB Subsystem	System board USB controller , USB 3.1
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat DC
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, SSD
Printing Device Connection	USB	USB 2.0 mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	''Scale Content for A4 or 8.5 x 11'' Paper size'' set to off.
	Adobe Reader	''Paper Scaling'' set to ''None''.

Summary Report

Office Category Test		FSOT [s]	ESAT [ppm/ipm]
Output order	Simplex	Reverse	Reverse
	Duplex	Original	Original
Color (Default)	Simplex Average	49.38	5.86
	Duplex Average	60.08	4.52
B&W mode	Simplex Average	27.22	10.35
	Duplex Average	37.49	6.90

Notes
·All printing device and print driver setting were default mode.
·For the B&W result, the print driver was set to''Grayscale"
·For the duplex result, the print driver was set to "Auto(Long-edge binding)'' in ''2-sided printing''

Full Report

Office Category Test			Default order	EFTP [ppm/ipm]			ESAT	Office Category Test			Default order	EFTP [ppm/ipm]			ESAT
			FSOT [s]	1set test Default order	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	[ppm/ipm]				FSOT [s]	1set test Default order	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	[ppm/ipm]
Output order	Simplex		Reverse	Reverse	Reverse	Reverse	Reverse	Output order	Simplex		Reverse	Reverse	Reverse	Reverse	Reverse
	Duplex		Original	Original	Original	Original	Original		Duplex		Original	Original	Original	Original	Original
Color (Default)	Simplex	PDF	55.47	4.32	4.46 (2 set)	4.55 (6 set)	4.63	B&W mode	Simplex	PDF	28.11	8.53	9.36 (3 set)	9.66 (11 set)	9.86
		Word	30.71				8.83			Word	23.00				12.47
		Excel	61.94				4.12			Excel	30.53				8.74
		Average	49.38				5.86			Average	27.22				10.35
	Duplex	PDF	64.68	3.70	3.74 (2 set)		3.82		Duplex	PDF	37.89	6.33	6.55 (2 set)		6.84
		Word	40.82				6.33			Word	33.96				7.51
		Excel	74.73				3.43			Excel	40.62				6.37
		Average	60.08				4.52			Average	37.49				6.90

Notes
·All printing device and print driver setting were default mode.
·For the B&W result, the print driver was set to''Grayscale"
·For the duplex result, the print driver was set to "Auto(Long-edge binding)'' in ''2-sided printing''
·Annex D was used to establish ready delay time (ready delay time: 50s).

Full detailed report

(ISO/IEC 24734 Office Category Test)

Model

Printing device and test setting

Test Start Date and Time	2022/2/22 . 13:30
Tester	H.Nakata
Color or B/W	Color Printing device
Default output order	Reverse
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	103.7V
Test End Date and Time	2022/2/22 . 16:30

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Printer Driver, select''Grayscale'')
	Setting N set count	Activated (Application, select ''count up'' or ''count down'')
	Collating function	Activated (Printer Driver, select ''collate'')
	In order output	Default (Reverse)
Paper	Paper sending direction	short edge feed
	Paper type setting	plain paper
Paper path	Paper feeding	Rear paper input
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Test system parameters

Test system	Computer	Lenovo Think Pad P1 Gen2
	Processor	Intel ® Core™ i7-9750H Processor (2.60GHz, 12MB)
	System Chip Set	Intel ® CM246 Chip Set
	System Board	LENOVO:20QUS1VR00 BIOS :N2OET42W(1.29)
	System Memory	16GB(PC4-21300 DDR4 SODIMM)
	HDD or SSD Subsystem	M.2 PCIe NVMe SSD 512GB
	Video system	NVIDIA Quadro T1000
	I/O Subsystem	USB mouse
	USB Subsystem	System board USB controller , USB 3.1
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat DC
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, SSD
Printing Device Connection	USB	USB 2.0 mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	''Scale Content for A4 or 8.5 x 11'' Paper size'' set to off.
	Adobe Reader	''Paper Scaling'' set to ''None''.

Summary Report

Office Category Test		FSOT [s]	ESAT [ppm/ipm]
Output order	Simplex	Reverse	Reverse
	Duplex	Original	Original
Color (Default)	Simplex Average	49.25	5.84
	Duplex Average	61.75	4.44
B&W mode	Simplex Average	27.05	10.43
	Duplex Average	39.21	6.86

Notes
·All printing device and print driver setting were default mode.
·For the B&W result, the print driver was set to''Grayscale''
·For the duplex result, the print driver was set to ''Auto(Long-edge binding)'' in ''2-sided printing''

Full Report

Office Category Test			Default order	EFTP [ppm/ipm]			ESAT	Office Category Test			Default order	EFTP [ppm/ipm]			ESAT
			FSOT [s]	1set test Default order	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	[ppm/ipm]				FSOT [s]	1set test Default order	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	[ppm/ipm]
Output order	Simplex		Reverse	Reverse	Reverse	Reverse	Reverse	Output order	Simplex		Reverse	Reverse	Reverse	Reverse	Reverse
	Duplex		Original	Original	Original	Original	Original		Duplex		Original	Original	Original	Original	Original
Color (Default)	Simplex	PDF	55.46	4.32	4.46 (2 set)	4.55 (6 set)	4.63	B&W mode	Simplex	PDF	27.81	8.62	9.45 (3 set)	9.73 (11 set)	9.95
		Word	30.59				8.77			Word	22.65				12.65
		Excel	61.70				4.12			Excel	30.67				8.70
		Average	49.25				5.84			Average	27.05				10.43
	Duplex	PDF	66.69	3.59	3.65 (2 set)		3.73		Duplex	PDF	39.18	6.12	6.37 (2 set)		6.71
		Word	43.20				6.25			Word	35.56				7.62
		Excel	75.36				3.34			Excel	42.88				6.26
		Average	61.75				4.44			Average	39.21				6.86

Notes
·All printing device and print driver setting were default mode.
·For the B&W result, the print driver was set to''Grayscale''
·For the duplex result, the print driver was set to ''Auto(Long-edge binding)'' in ''2-sided printing''
·Annex D was used to establish ready delay time (ready delay time: 50s).

Full detailed report

ISO/IEC 17991 (Scan to PC file)

Machine name/model:

Printing device and test setting

Test Start Date and Time	2022/3/7 . 13:30
Tester	T.Hirasawa
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	23.1℃ / 43.5 %
Voltage	Within Rating voltage
Test End Date and Time	2022/3/7 . 15:00

	Pre-set item	Pre-set value
Mode and Settings	Scanning resolution	default [200dpi]
	Colour or grey scale/B&W	default [color]
	Duplex / simplex	default [simplex]
	Original page size	default [A4]
	Paper feed orientation (long/short edge)	default [short edge]
	Scan destination	default [Document]
	Storing File Type	default [pdf multi]
	Auto scan quality adjustment	Pre-set value
ADF	Paper feed direction	default [short edge]
Paper-path	Output orientation	default
	scanning unit	default [simplex ADF]

PC based scanning software test parameters

Item		Value
Test system	Computer	Lenovo Think Pad P1 Gen2
	Processor (CPU)	Intel ® Core™ i7-9750H Processor (2.60GHz, 12MB)
	System Chip Set	Intel ® CM246 Chip Set
	System Board	LENOVO:20QUS1VR00 BIOS :N2OET42W(1.29)
	System Memory	16GB(PC4-21300 DDR4 SODIMM)
	Hard Drive or SSD Subsystem	M.2 PCIe NVMe SSD 512GB
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Setting	default
Application software	Application name	EPSON SCAN
Driver	Driver name	EPSON SCAN
Connection	Connection cable	USB2.0

Summary Report

ADF summary report

	Scanning mode			Measurement result
	FileFormat Version	Resolution	Scanning side	$scESAT_{30secA}$ (ipm)
Color (Default setting)	PDF 1.4	200dpi	single side	4.76
			double sides	N/A
B&W (binary)	PDF 1.4	200dpi	single side	4.75
			double sides	N/A

Scan to PC folder summary report

	Scanning mode			Measurement result		
	FileFormat Version	Resolution	Scanning side	$scEFTP_{30secP}$ (ipm)	File size(30secP) (Mbyte)	Number of Sets(30secP)
Color (Default setting)	PDF 1.4	200dpi	single side	4.34	1.29	2
			double sides	N/A	N/A	N/A
B&W (binary)	PDF 1.4	200dpi	single side	4.34	0.19	2
			double sides	N/A	N/A	N/A

Full Report

ADF full report

	Scanning mode			Measurement result		
	FileFormat Version	Resolution	Scanning side	$scEFTP_{1setA}$ (ipm)	$scEFTP_{30secA}$ (ipm)	$scESAT_{30secA}$ (ipm)
Color (Default setting)	PDF 1.4	200dpi	single side	4.15	4.43	4.76
			double sides	N/A	N/A	N/A
B&W (binary)	PDF 1.4	200dpi	single side	4.15	4.42	4.75
			double sides	N/A	N/A	N/A

Scan to PC folder full report

	Scanning mode			Measurement result			
	FileFormat Version	Resolution	Scanning side	$scEFTP_{1setP}$ (ipm)	$scEFTP_{30secP}$ (ipm)	File size(30secP) (Mbyte)	Number of Sets(30secP)
Color (Default setting)	PDF 1.4	200dpi	single side	4.00	4.34	1.29	2
			double sides	N/A	N/A	N/A	N/A
B&W (binary)	PDF 1.4	200dpi	single side	4.00	4.34	0.19	2
			double sides	N/A	N/A	N/A	N/A

NOTE: As for scEFTP30secP, measurement parameters involving the measurement of file transmission to a folder are dependent on other factors like the computer and I/F configuration and represent relative values and not absolute values.

Full detailed report

(ISO/IEC 29183)

Model

Machine setting

Test Start Date and Time	2022/2/25 . 11:20
Tester	T.Hirasawa
Color or B/W	Color MFD
Configuration (Option)	Option wasn't used
Temperature	23.3 ℃
Humidity	43.0 %
Voltage	105.0V
Test End Date and Time	2022/3/4 . 13:10

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	N/A
	Collating function	N/A
Paper	Paper sending direction	Short edge
	Paper type setting	Plain paper
Paper path	Paper feeding	Rear paper input
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Summary Report

	sFCOT [s]	sESAT [ipm]
Color	29.74	4.33
B&W	12.10	8.46

NOTES

・All device settings were default mode.
・For the B&W results, the copy color was set to “B&W”.
・A4paper was used for this test, Short edge feed.
・Productivity has been determined in accordance with ISO/IEC 29183.

Full Report

	Target	sFCOT[s]					sEFTP [ipm]			sESAT
		Ready	Sleep	Recovery time	Off	Warm-up time	1Copy	1Copy+30 seconds (# copies)	1Copy+4 minutes (# copies)	[ipm]
Color	A	28.27	33.09	4.82	47.68	19.41	2.12	3.01 3 copies	3.72 17 copies	3.93
	B	28.12					2.13	4.77 5 copies		6.94
	C	29.03					2.06	2.93 3 copies		3.72
	D	33.53					1.78	2.32 3 copies		2.73
	Average	29.74					2.02	3.25		4.33
B&W	A	11.91	18.61	6.70	34.70	22.79	5.03	7.76 6 copies	8.68 37 copies	8.91
	B	11.79					5.08	8.09 6 copies		9.22
	C	12.12					4.95	6.98 5 copies		7.76
	D	12.57					4.77	6.95 5 copies		7.95
	Average	12.10					4.95	7.44		8.46

NOTES

・All device settings were default mode.
・For the B&W results, color was set to “B&W”.
・A4 paper was used for this test, Short edge feed.
・Productivity has been determined in accordance with ISO/IEC 29183.
・Annex D was used to establish ready delay time (ready delay time: 50s).
・There was a 1.4 second delay before selecting the copy start button.

Full detailed report

(ISO/IEC 29183)

Model

Machine setting

Test Start Date and Time	2022/3/2 . 8:45
Tester	T.Hirasawa
Color or B/W	Color MFD
Configuration (Option)	Option wasn't used
Temperature	23.5 ℃
Humidity	50.8 %
Voltage	105.2V
Test End Date and Time	2022/3/7 . 13:10

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	N/A
	Collating function	N/A
Paper	Paper sending direction	Short edge
	Paper type setting	Plain paper
Paper path	Paper feeding	Rear paper input
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Summary Report

	sFCOT [s]	sESAT [ipm]
Color	29.01	4.33
B&W	11.96	8.69

NOTES

・All device settings were default mode.
・For the B&W results, the copy color was set to “B&W”.
・Letterpaper was used for this test, Short edge feed.
・Productivity has been determined in accordance with ISO/IEC 29183.

Full Report

	Target	sFCOT[s]					sEFTP [ipm]			sESAT
		Ready	Sleep	Recovery time	Off	Warm-up time	1Copy	1Copy+30 seconds (# copies)	1Copy+4 minutes (# copies)	[ipm]
Color	A	27.72	33.10	5.38	47.21	19.49	2.16	3.05 3 copies	3.74 17 copies	3.95
	B	26.75					2.24	4.87 5 copies		6.95
	C	28.47					2.10	2.96 3 copies		3.71
	D	33.09					1.81	2.33 3 copies		2.73
	Average	29.01					2.07	3.30		4.33
B&W	A	11.77	18.69	6.92	34.50	22.73	5.09	7.90 6 copies	8.74 37 copies	8.98
	B	11.64					5.15	8.13 6 copies		9.34
	C	12.10					4.96	7.66 6 copies		8.60
	D	12.32					4.86	6.93 5 copies		7.85
	Average	11.96					5.01	7.65		8.69

NOTES

・All device settings were default mode.
・For the B&W results, color was set to “B&W”.
・Letter paper was used for this test, Short edge feed.
・Productivity has been determined in accordance with ISO/IEC 29183.
・Annex D was used to establish ready delay time (ready delay time: 50s).
・There was a 1.4 second delay before selecting the copy start button.